

SICB Spring 2002 Newsletter

Contents

[Message from the President](#)

Marvalee H. Wake

[Message from the Secretary](#)

Penny M. Hopkins

[Message from the Treasurer](#)

Ron Dimock

[News and Announcements](#)

- [2004 Meeting: Call for Symposia](#)
- [The UBC Legacy Symposium](#)

[Committee Reports](#)

- [Educational Council](#)
- [Student/Postdoctoral Affairs Committee](#)
- [Student Support Committee](#)

Division Newsletters

[Animal Behavior \(DAB\)](#)

- [Message from the Secretary](#)
- [Election Candidates](#)

[Comparative Endocrinology \(DCE\)](#)

- [Message from the Chair](#)
- [Message from the Program Officer](#)
- [Report on General and Comparative Endocrinology](#)
- [Message from the Secretary](#)

[Comparative Physiology and Biochemistry \(DCPB\)](#)

- [Message from the Chair](#)
- [Message from the Program Officer](#)

- [Message from the Secretary: Business Meeting Minutes and Candidates for Election](#)
- [Message from the Graduate Student/Postdoc Representative](#)
- [The George A. Bartholomew Award](#)

Developmental and Cell Biology (DDCB)

Evolutionary Developmental Biology (DEDB)

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

Ecology and Evolution (DEE)

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

Invertebrate Zoology (DIZ)

- [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](#)
- [In Memoriam: Dr. Ralph Morris Buchsbaum](#)
- [Minutes of the 2002 Annual Business Meeting](#)
- [Elections: Program Officer Candidate CVs and Statements of Goals](#)

Neurobiology (DNB)

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

Systematic and Evolutionary Biology (DSEB)

- [Message from the Officers](#)
- [DSEB Business Meeting Discussions](#)

Vertebrate Morphology (DVM)

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

Message from the President

Marvalee H. Wake

It is an honor and a privilege to be President of the Society for Integrative and Comparative Biology—its enormous potential for leadership in biology, and the great people in the Society, make it a joy to help its work. It is especially rewarding to be President at a time when the society is financially stable, in fact "comfortable" and able now to augment student support, and to try new and progressive programmatic items. I well remember, though, the "difficult years"—it is a special joy now to have kept the promises for our recovery made by the President and Treasurer (David Wake and Kathy Packard) who kept our ship afloat in our darkest time, and steered us into calmer waters. Another President and Treasurer, Martin Feder and Kim Smith, recently made crucial management decisions that have resulted in our new stability and progress, especially through acquisition of our new management firm, Burk and Associates. Their "learning curve" has been steep, their interest in working with us to make the Society progress has been noteworthy, and their open and pleasant attitude make working with them a treat. Our Webmaster, Ruedi Birenheide, continues to work miracles with the SICB website—he often responds to suggestions or problems within 15 minutes, and always creatively.

Our annual meeting in Anaheim in January was very successful—outstanding symposia, contributed papers, and poster presentations. John Pearse, our Program Officer, excelled as always in his attention to programmatic needs and his resolute work in trying to meet everyone's requests and still have a coherent program. His thoughtfulness and calm oversight, as well as hard work, were above and beyond the call of duty, and we all benefitted from his concern for us. He made his office, and thereby our program, very special. I, and we, simply can't thank him enough. His successor, Stacia Sower, is off and running on organization and innovative ideas, and her plans for our meetings in 2003 and 2004 are well under way. Several Division Chairs and other officers, and committee chairs and members, finished their terms, and I thank them, on behalf of the Society, for their dedicated work. Our Treasurer, Ron Dimock, continues to provide capable and innovative leadership, and he and our Executive Director, Brett Burk, are spearheading a well-researched investment program for SICB. We are all delighted that our new-found prosperity is allowing us to double our commitment to graduate student research support, and we of course continue our support for their attendance at our meeting. Our Executive Committee provides an invaluable sounding board and review body for the society, with many suggestions for improvement and for new programs coming from them. Its members are our major interface for communication for the Society and its Divisions. One new initiative for the Anaheim meeting proved very successful—invitation to the Presidents of many societies in the US and throughout the world to attend our meeting to discuss our similar goals and concerns about organismal biology resulted in officers from Japan, Canada, Mexico, The Netherlands, Belgium, and Israel being present, and those from Italy, Ecuador, and China expressing strong interest but having difficulty with the timing of our meeting and/or their own affairs. We agreed to develop a web-based network to discuss our common interests, and I will be developing this. I do hope that such meetings can be further implemented in the near future. We also re-established the Deans' and Chairs' Meeting to discuss issues of general interest—that wasn't so productive, as only three (including me) of the 21 people who had indicated their interest in attending the session actually showed up. We had a pleasant and productive conversation... Our jam-packed meeting may work against our adding such topical sub-meetings, I fear.

As you will soon see, the changes in our journal voted in last year will be produced in the first number for 2002. Our new name, *Integrative and Comparative Biology*, will be featured; there will be a new cover design, and we will have a new and larger format. Our Editor, John Edwards, the editorial consortium at the University of Washington, and the loyal staff members for the journal, Claudia deGruy and Jennifer Tousley, deserve our thanks for working these changes through. The backlog is also decreasing, and we are instituting measures to allow electronic handling of many aspects of the review process—all to put our journal in a leadership position in organismal biology.

I note that this Spring Newsletter includes the discussion of our upcoming elections, including the biographies and statements of the candidates for offices; please read this information carefully. We have made our on-line

voting mechanism both secure and accessible; we hope to have a large and enthusiastic response to our candidates, resulting in most of the Society's members casting their ballots. We also, of course, will provide hard-copy ballots----please check the website. I urge your attention to this important process, and your support for the people that you elect.

I'll close by saying that I am acutely aware, as I and the other officers are working to be sure our Society's committees are at full membership and able to work effectively, of our need for more of our members to participate in the work of the Society. We have a wonderfully loyal and hard-working group, but the future of the Society will be assured only if we continue to recruit participation in the affairs of the Society by more of our members. Yes, we encourage our newer members to participate, as well as those long-time members who can provide leadership as well. We have committees to suit just about any of your interests! Please look at our website to see the list of our committees, and in our Constitution and Bylaws to see the charges for many of them. If you are interested in serving the Society in any capacity, please let me know---mhwake@socrates.berkeley.edu. I'll be happy to help you be more involved in the Society for Integrative and Comparative Biology!

I look forward to hearing from you, and to working with you and for you. There will be more news about SICB in various e-mail messages that you will receive during the year (please read them---we try to keep the number down, and to be sure they are significant to the Society) and in the Fall Newsletter. I look forward to seeing many of you next at our 2003 annual meeting in Toronto!

Message from the Secretary

Penny M. Hopkins

I hope that everyone in the Society takes the opportunity to read the individual Divisional Newsletters in the Spring SICB Newsletter. The Society is hoping to convert all division election schedules to a summer election schedule. We hope to have all of the SICB divisions on the same time frame with each other and with the society-wide elections. No, this is not a hobgoblin of many small minds: This consistency in election schedules will make all elections and the transitions between officers smoother and more efficient.

In past years there has been some grumbling about the lack of coordination of outgoing officers and incoming ones. With this new schedule, the new divisional and society-wide officers will be elected well before they are required to assume any official duties. We hope that this new schedule of elections will allow for at least one year of "shadowing." What "shadowing" means is that a newly elected officer (as the officers-elect) will attend meetings with the outgoing officer for at least one annual meeting in order to learn the duties and obligations of that officer. The new officers may also be able to participate in divisional or society-wide activities prior to assuming their own duties in order to get a better feel for the overall activities of the division (or of the society).

We hope that you are comfortable with this new schedule which will include publishing the biographies all nominated candidates in the Spring Newsletter, mailing (or e-mailing) ballots during the late Spring and early Summer, tabulation of votes during the summer, and publication of the election winners in the Fall Newsletter. This schedule will allow the newly elected officers to attend the annual meeting during the winter as officer-elect. We anticipate that this new schedule will make the transition of officers smoother, will allow for greater continuity within the divisions, and give more "on-the-job" training for officers-elect.

Thanks for your cooperation in this transition. Good luck to all the candidates – we appreciate their agreeing to participate in the functioning of the SICB.

Message from the Treasurer

Ron Dimock

The financial state of SICB continues to be excellent. While full details from the Anaheim meeting are not yet in hand, attendance figures and preliminary summaries of expenses indicate that the meeting was a financial success, perhaps even ending in the black. Certainly it was a great scientific experience.

The final audit for 2001 is not yet complete, but it appears that the Annual Meeting in Chicago will come within a few hundred dollars, or at most, a few thousand, of breaking even. Considering that the budget had projected a loss of over \$60,000, ending at probably much less than \$5000 in the red would be a major financial success. Each of the previous two Annual Meetings was more than \$110,000 in the red.

The Executive Committee has reactivated the membership category of Life Member. Effective immediately, individuals can elect Life Membership in SICB for \$1000, payable either in a lump sum or in two consecutive annual payments of \$500. This option should be especially appealing to mid-career members who could enjoy the potential tax deduction while making a very significant contribution to the Society.

As a reminder, the current dues structure for 2002:

Full Member	\$95
Full Family	\$150
Emeritus with Journal	\$70
Emeritus without Journal	\$60
Post-Doc	\$71
Post-Doc Family	\$116
Graduate Student	\$36
Graduate Student Family	\$59
Student-in-Training	\$36
Life Member	\$1000

will for 2003 become:

Full Member	\$85
Full Family	\$125
Emeritus with Journal	\$70
Emeritus without Journal	\$60
Post-Doc	\$45
Post-Doc Family	\$60

Graduate Student	\$36
Graduate Student Family	\$59
Student-in-Training	\$36
Life Member	\$1000

The solid financial condition of the Society also has enabled the Finance Committee to contract with a professional financial manager to invest and oversee a portion of the Society's assets. The portfolio will be highly diversified and conservative, but should contribute significantly to the future financial security of the Society.

With the advent of a more formal procedure for soliciting budget requests, together with the solid financial position of the Society, Divisions and other components of SICB are encouraged to be thinking seriously about productive and innovative ways to use these resources to improve the services of the Society to the membership and to the professional and lay communities. SICB is poised to be at the forefront of biological science nationally, and increasingly internationally.

SICB Fall 2002 Newsletter News Announcements

- [2004 Meeting: Call for Symposia](#)
 - [The UBC Legacy Symposium](#)
-

2004 Meeting: Call for Symposia

With plans well underway for the 2004 annual meeting in New Orleans, SICB now accepts proposals for symposia. Information and online submittal form are available at sicb.org/meetings/2004/.

The UBC Legacy Symposium

A symposium has been organized to honour the retirements of the University of British Columbia "Big 4": John Phillips, Peter Hochachka, Dave Randall and Dave Jones, and the collective contribution these four have made to comparative biochemistry and physiology. It will be held as a one day satellite symposium of the Conference on "The Power of Comparative Physiology: Evolution, Integration and Applied" sponsored by the American Physiological Society in San Diego this August. Full details are now available on the web at www.science.ubc.ca/~biomania/thebig4.htm.

Committee Reports

- [Educational Council](#)
 - [Student/Postdoctoral Affairs Committee](#)
 - [Student Support Committee](#)
-

Educational Council

Wendy L. Ryan, Chair

At the annual meeting in Anaheim, the Executive Committee approved a proposal forwarded by the Education Council to establish an **SICB Award for Excellence and Innovation in Science Education**. This award will be given in recognition of the outstanding presentation, whether poster or paper (oral) format, given at the annual SICB meeting in any area pertaining to science education. Competition will be open to all presenters, with one of the criteria favoring newer faculty and/or students. The intent of this award is to increase the profile of innovation in science education within and beyond SICB, and also to attempt to highlight the contribution of such activities towards the goal of increasing science literacy in the general population. As a reminder, you are eligible to make a presentation in the area of science education **in addition** to a research presentation. So, start planning your education presentations now in preparation for the 2003 annual meeting where this award will be available for the first time!

The Education Council is currently working on developing additional ways in which we can support science education within SICB. We encourage suggestions and input from the general membership concerning activities and/or programs that we could consider to better meet the needs of SICB constituents with regard to issues of science education.

On behalf of the Education Council, I would like to acknowledge the efforts of former Education Council members Sandra Gilchrist and John Hranitz. We are always looking for new members who have creative ideas and a willingness to dedicate some time to the concerns of science education both within SICB and beyond. If you are interested in joining the Council, please feel free to [contact](#) myself or any member of the Education Council.

Student/Postdoctoral Affairs Committee

Kevin M. Kelley, Chair

At all SICB Annual Meetings, the SPDAC hosts three large events, the **First Timer Orientation**, the **Student/Postdoc Luncheon**, and the **Student/Postdoc Workshop**. At the First Timer Orientation, we serve

as one of the first official voices for the SICB, and thus we make every attempt to make new attendees feel welcomed, well-supported, and connected to the Society via our Committee. The Student/Postdoc Luncheon provides for a great opportunity for all of the student and postdoctoral members to convene over lunch, meet new colleagues, and provide direct input to the SPDAC. The "main event" for the SPDAC at annual meetings is the Student/Postdoc Workshop, with its subject matter changing every year.

For the Anaheim 2002 meeting, the SPDAC responded to recurring suggestions from its constituency over the last several years and convened a workshop on the topic of job opportunities outside of traditional academia, which was called **Options Outside of Standard Academia: Fusing Your Academe With Your Professional Future**. The SPDAC emphasized the kinds of non-typical career directions represented in SICB members of today. Many excellent jobs in today's market have a combined government-and-academic emphasis, while others may represent a fusion of academic and private interests. Still others, such as careers within museums or aquaria, typically have extremely strong ties to academia. The workshop explored these avenues for the student and postdoctoral SICB members, and it included an excellent panel of professionals who clearly represented these kinds of careers. The SPDAC would like to acknowledge the following persons for their excellent presentations at the Student/Postdoc Workshop, as well as their willingness to carry on discussions afterward with the students and postdocs in attendance.

Dr. Joel Cracraft, Curator, Dept. Ornithology, American Museum of Natural History, New York

Dr. Susanne Lawrenz-Miller, Director, Cabrillo Marine Aquarium, San Pedro, CA

Dr. Paul Krause, Western Regional Coordinator, Risk and Associated Services Group, & National Sediment Quality Leader, ARCADIS-JSA, Inc., Long Beach, CA (Environmental Consulting)

Dr. Stephen D. McCormick, Physiology Section Leader, S.O. Conte Anadromous Fish Research Laboratory, United States Geological Survey, & Adjunct Asst Prof, Univ. Massachusetts, Amherst

As a further bonus, two additional speakers provided thoughtful input on careers at primarily-teaching colleges and universities:

Dr. Wendy Ryan, Assistant Professor, Kutztown University, PA, and Chair, SICB's Education Council

Dr. Rachel Ann Merz, Professor, Swarthmore College, PA, and Chair, SICB's Division of Invertebrate Zoology

The SPDAC thanks the above workshop participants for taking their valuable time to interact with and show interest in those who represent the future of SICB and its science . . . your efforts were highly valued by all in attendance!

To All Student Postdoctoral Members of the SICB --- Keep an eye on us!
The SPDAC has some new developments underway in 2002, including a new SICB web-page oriented around your specific needs and interests.

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>

- **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/>

For further contact or additional information, contact the Student/Postdoctoral Affairs Committee Chair (kmkelley@csulb.edu) or see [the Committee's SICB webpage](#).

Student Support Committee (SSC)

David W. Borst, Chair

Grants-in-Aid of Research (GIAR):

The Student Support Committee (SSC) met at the annual meeting of the SICB in Anaheim. We reviewed 76 research proposals and made 27 awards (total awards = nearly \$21,000) to graduate student applicants from nine of the SICB divisions. The average award was about \$800/grant. As in previous years, the committee was impressed with the high quality of the proposals, which made their evaluation challenging. We congratulate the recipients for their excellent proposals and we encourage those who were not funded to apply again this fall. A list of the GIAR awardees can be found at sicb.org/grants/giarawards2002.php3.

This year marked the second year that GIAR proposals and the reference letters for each applicant have been submitted through the SICB website. This system also allows members of the SSC to access the proposals electronically. The procedure works exceedingly well, and the SSC thanks Ruediger Birenheide for his continuing efforts to refine the GIAR website.

During the coming fall, the SSC will begin a second program for the support of graduate student research, the **Graduate Student Travel Fellowship (GSTF)**. While the SSC is pleased with the current GIAR program, we felt that a subset of the current applications should be placed in a separate competition. These applications are primarily for travel support to distant research/collection sites or to a laboratory in another country where the student plans to learn a specialized technique or use unique equipment. Since the expense of traveling and living abroad is high, we proposed that the GSTF awards should be approximately \$2,000 per year. The Executive Committee agreed to support the GSTF program during the coming year. More information about the GSTF program will be forthcoming this fall.

Travel Awards:

Each year the Society provides travel support to students attending the national meeting. This support is either for housing or registration fees. The students who receive these awards do small tasks for the Society at the meeting. The Society was able to support every student (173) who applied for support by the deadline (November 16, 2001). The total value of these awards was over \$40,000. A substantial portion of the cost of these travel awards is provided by the generous bequest of Charlotte Magnum. The SCC thanks Micah Sauntry of Burk & Associates for the attention he gave to the administration of these awards.

Division of Animal Behavior (DAB): 2002 Spring Newsletter

In this newsletter:

- [Message from the Secretary](#)
 - [Election Candidates](#)
-

Message from the Secretary

Peter Smallwood

Best Student Paper Awards!

This year, we had a tie for the Best Student Paper award for oral presentations. Congratulations to Brian C. Trainor from the department of Psychology at the University of Wisconsin for his talk entitled: "Testosterone promotes paternal behaviour in a monogamous mammal via conversion to estrogen". And congratulations to Sarah C. Humfeld from the Division of Biological Sciences at the University of Missouri, for her presentation, "Male Acoustic Preferences Parallel Female Mate Choice Preferences". And congratulations to Tuhin Giri for winning the Best Student Poster Award. The poster was entitled: "Chemical detection of reproduction condition by the hermaphroditic shrimp *Lysmata wurdemanni*".

All graduate students are encouraged to compete for these awards at the Toronto meetings in January of 2003. There are actually three separate awards, each with its own cash prize: the best student poster award, best student paper award, and the A.M. Wenner Strong Inference Award (for the paper best exemplifying the use of strong inference in their experimental design). To be eligible for the DAB student paper awards, the applicant must be a member of SICB and our division. The student must indicate their intention to compete on the abstract transmittal form. Eligible papers must be original research by a graduate student or a Ph.D. whose degree was awarded no more than one year prior to the time of the meeting. Further information about support for graduate student attendance of the meeting of SICB can be found in the [SSC section](#) of this newsletter. Check it out: SICB can usually provide for your lodging in exchange for a ½ day of help (e.g., running the slide projector for an afternoon).

DAB Elections

Candidate for Secretary

Thomas P. Hahn

Current Position: Assistant Professor of Neurobiology, Physiology and Behavior, University of California Davis

Education: B.S., Stanford University, 1984; M.S., Stanford University, 1985; Ph.D., University of Washington, 1993.

Professional Experience: Research Assistant: 1982–86 (Cornell University, Rocky Mountain Biological Laboratory, Stanford University); Graduate Research Assistant: 1986–1993 (University of Washington); Postdoctoral Fellow: 1993–95 (University of Washington, Johns Hopkins University); Assistant Professor, 1996–present (Princeton University, University of Alaska Fairbanks, University of California Davis).

SICB Activities: Meeting participant, Divisions of Animal Behavior and Comparative Endocrinology.

Other Memberships: Society for Behavioral Neuroendocrinology, Society for Neuroscience, American Ornithologists' Union, Cooper Ornithological Society.

Research Interests: (A) Environmental regulation of avian behavior and physiology, especially neuroendocrine regulation of reproductive cycles in seasonally– and opportunistically–breeding songbirds, and neuroendocrine and endocrine regulation of behavioral responses to unpredictable environmental events (e.g., storms) in songbirds. (B) Role of culturally–transmitted traits (songs, calls, habitat preferences) in behavior, ecology and evolution of songbirds.

Goals Statement: I have been active in ASZ/SICB since my first year as a PhD student, and have reached a point where I would like to make a more substantial contribution of time and effort. I'm particularly interested in trying to foster more consistent and extensive graduate student participation in DAB, and in continuing the DAB tradition of sponsoring high–quality symposia, especially on topics integrating behavior with physiology, neurobiology, endocrinology, ecology and evolution.

Division of Comparative Endocrinology (DCE): 2002 Spring Newsletter

In this newsletter:

- [Message from the Chair](#)
 - [Message from the Program Officer](#)
 - [Report on General and Comparative Endocrinology](#)
 - [Message from the Secretary](#)
-

Message from the Chair

Michael C. Moore

As most of you are aware, I am taking over from Dave Norris as chair of DCE. I want to begin by thanking Dave for his exceptional service as chair of our division. Dave was an energetic and creative chair and was always looking for new ways to move our division forward. His signature accomplishment was undoubtedly the establishment of the Howard Bern Lectureship and his recruiting of Howard himself to give the first lecture. Dave also secured a commitment from Academic Press (now Elsevier) to financially support the lectureship for the future. I would also like to thank outgoing officers, Sunny Boyd (program officer) and Robert Denver (secretary). Both gave exceptional service to the division, but I particularly want to thank Sunny for work above and beyond the call of duty during the transition in the structure of the program from a division based structure to a topic based structure. Our division has an exceptional record of individuals who are willing to step up and take on the burdens of helping to run our division and the society. Incoming officers David Borst (chair-elect), Miles Orchinik (program officer) and James Carr (secretary) continue this tradition. It is also remarkable that three of the society-wide officers come from our division. John Wingfield is president-elect of the society, Stacia Sower is program officer and Sunny Boyd is secretary-elect. We can certainly expect that this will be a time when the leadership of the society will be sensitive to the needs of our division!

The meeting in Anaheim was very successful. Burk and Associates continues to provide excellent management service to the society. The meeting continues to be very healthy and was as large or larger than the Chicago meeting, which was the largest in the society's history. Remarkably, due largely to the management of Burk and Associates, the meeting either broke even or made a small profit. This is sharp contrast to only a few years ago when the meeting deficits were in excess of 100K. Our division also made a strong showing with lively presentations and poster sessions and, of course, Howard's entertaining and informative lecture.

The Aubrey Gorbman Award for best student paper was awarded to Nicole Perfito (University of Washington; "Environmental and endocrine regulation of reproduction in song sparrows along an altitudinal gradient") with an honorable mention to Gregory Nicholson (California State University; Long Beach; "Peripheral Glucoregulation in the Longjaw Mudsucker: Insulin Regulation of Muscle Glucose Transport"). The best student poster was presented by Sharon Lynn (University of Washington; "Short-term fasting in a songbird leads to elevated free corticosterone levels due to decreased corticosterone binding globulin") with Ben Yan (University of Michigan; "Molecular interaction between fibronectin and insulin-like growth factor binding protein-5 (IGFBP-5)") receiving an honorable mention.

I would like to call your attention to a couple of issues and opportunities.

First, the society is in exceptional financial health. I have been a member of ASZ/SICB for 23 years and I was a divisional officer (program officer) a decade ago when the society discovered that the bottom had fallen out and it was over a half million dollars in debt. There was a lot of doubt about whether the society would survive. Fortunately, due to the hard work of a number of very committed people, this situation has been completely reversed and the society now has cash reserves in excess of 1.5 million dollars. This has resulted in a number of reductions in dues and fees to members (how many of you remember the \$35 abstract fee?). Given the past financial history of the society, it is understandable that the leadership is being very conservative financially. This is especially true because the primary source of income for the society is institutional subscriptions to *American Zoologist* (which will change its name shortly to *Integrative and Comparative Biology*). It is very uncertain how this income will be affected by the transition to online journals. *American Zoologist* has recently become available online through the BioOne consortium that libraries pay a subscription fee for. (By the way in addition to a flat rate, libraries pay by how much a journal is accessed. Therefore, if you have access to BioOne, you earn money for the society each time you use it to look at an *American Zoologist* article!). Despite the need for fiscal conservatism, this is also a time of exceptional opportunity. Membership in the society and in the division was greatly reduced during the financial crisis and has never fully recovered. Thus, there remains a need to provide increasing value of the society to the membership. We need your ideas and now is the time to try to push them forward. How can we make the division and the society more valuable to our current membership and to the discipline as whole in order to give more people a reason to join? For example, I think the society needs to be more involved in political activism. I think the federal funding for research situation is of great concern to people in our discipline and many would support a society that was actively doing something about it. If you have other ideas, no matter how small or grandiose, I would love to hear about them and the society is definitely in a condition to act on them.

Second, there is continuing concern of how well DCE serves the needs of our membership and the discipline of Comparative Endocrinology. We are currently one of only two divisions in SICB that uses the annual SICB meeting as the disciplinary national meeting and that has no other national organization. The society leadership has always been very sensitive to the needs of the divisions in this situation, but many DCE members have questioned whether this is the optimal organization. Is this the best way to advance the interests of Comparative Endocrinology and to attract attention to it? For example, the shift to topic-based sessions has been greeted favorably by most people but decreases the visibility and coherence of our division. In addition, I continue to be nagged by the issue that many people skip the national meeting in favor of their regional meetings. In this vein, some people have been discussing the idea of whether it would be better to reorganize as a society of comparative endocrinology. This society could either continue to meet with SICB or could organize its own national meeting. However, there are also a number of benefits to being a division of SICB that would be lost. In addition, comparative endocrinologists have been among the leaders of the integrative biology revolution and thus we are strongly committed to the goals of SICB. Thus, this is a complex issue and there are many pros and cons involved. In addition, emotions and loyalties are likely to run high. Nevertheless, if we are to make the discipline of comparative endocrinology as strong as possible, we must constantly challenge ourselves with the question: "Are we doing the best we can?" We cannot passively accept the status quo, but must challenge ourselves to actively choose the best alternative. I would love to hear your views on this issue. Are you happy with the current divisional status of comparative endocrinology? Are there other organizations that would benefit us more?

Message from the Program Officer

Miles Orchinik

Sunny Boyd has done such a fabulous job as program director for the Division of Comparative Endocrinology that I take over the job with more than a little humility. We owe Sunny a big thanks. Sunny is now secretary–elect for the society, so we will continue to benefit from her expertise.

DCE is sponsoring two very exciting symposia at the Toronto meeting in January 2003: "**Mechanisms Underlying Life–History Transitions**" and "**Technological Innovations for the Study of Chemical Signaling**". Both of these forums feature experimental and conceptual excellence from well–established researchers and from young investigators just making their marks. The symposia highlight the potential for comparative endocrinology to produce significant advances in our understanding of basic biological processes. Both symposia should challenge and inspire us with their broad, integrative sweep.

John Hatle is organizing "**Mechanisms Underlying Life–History Transitions**," a full–day symposium, with primary support from DCE and secondary support from the Divisions of Animal Behavior and Comparative Physiology and Biochemistry. The symposium will focus on the physiology of phenotypic plasticity and polyphenism, in particular the mechanisms by which animals develop multiple phenotypes from single genotypes in response to environmental factors. John has identified the three primary goals for the symposium as: 1) Bringing together workers from diverse fields to search for common mechanisms in the developmental switches from plastic to canalized phases in vertebrate and invertebrate taxa. 2) Demonstrate the benefits of examining the regulation of critical life–history transitions, particularly to graduate students. 3) Emphasize the importance of studying the physiological and endocrinological mechanisms of inflexible phases that potentially constrain adaptation.

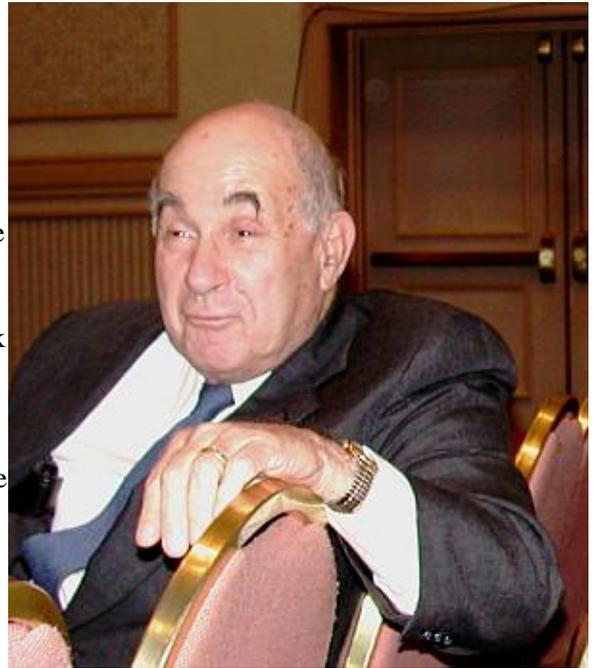
Sunny Boyd, with help from Juli Wade and me, is organizing a symposium on **Technological Innovations for the Study of Chemical Signaling**. For a variety of reasons, comparative endocrinologists often lag behind in adopting new techniques; the goal of this symposium is to provide the excitement, information and personal contacts necessary to minimize barriers and foster cutting–edge research by comparative endocrinologists. There will be a day of talks about state–of–the–art technology and illustrations of the types of questions the new technologies allow us to ask. This will be followed by a half–day workshop to provide more detailed and hands–on experience with two new techniques. The symposium will, of course, feature developments in molecular biology such as DNA microarray and transgenic technologies, but will also include a range of techniques, from the latest in imaging technology to tools for proteomics research. Many of the speakers work on non–mammalian or non–vertebrate model systems and they will present a theoretical overview of the strengths and weaknesses in their methods in the context of comparative research.

With two compelling symposia, the Toronto meeting promises to be a busy one for comparative endocrinologists.

Report on General and Comparative Endocrinology

Robert M. Dores and Ian W. Henderson, Editors–in–Chief

2001 was a year of transition for *GCE*. Academic Press, the long-time publisher for the journal, merged with Elsevier Science. The Academic Press name will be retained, and the staff at San Diego headquarters for the journal was left virtually intact. Roslyn Carlson will continue to handle manuscripts through the San Diego office, and the staff has been expanded to facilitate the publishing of the journal. One change that did occur in the Academic Press staff is that Chuck Crumly, senior editor, has moved on to new duties within Elsevier, and will be replaced by Tari Paschall. Chuck was instrumental in moving the journal to the larger format size, encouraging the greater publishing of color figures, expanding the number of issues per year from 12 to 15 (2002), and hence increasing the number of pages that we are able to publish each year, and obtaining the grant from Elsevier Science to help support the Howard Bern Lecture Series at the SICB meeting. Many thanks to Chuck for his dedication to the journal, and best wishes to him on his new assignments within the company.



In 2001 the journal received 252 manuscripts for review, and to streamline and facilitate the process, a team of 30 editors was assembled to assist the editors-in-chief with the review process. After nearly six months of operation the new review system is getting established, and we are committed to shortening the review time for manuscripts. We have introduced the Short Communications in Genomics and Proteomics section, and we encourage authors to send ideas for mini-reviews, large reviews, and for the Current Perspectives section to Frank Moore, the Editor for Review Articles. In 2002, the journal will publish 7 mini-reviews from the Satellite Symposium on Amphibian and Reptilian Endocrinology held in Camerino, Italy in June 2001. We encourage organizers of future symposia to consider publishing reviews in *GCE*.

Inaugural Howard Bern Lecture

The 2002 meeting in Anaheim was highlighted by the first annual Howard Bern Lecture graciously delivered by Howard himself. The lectureship will be an annual event and was established to recognize one of the founders and leaders of the field of comparative endocrinology. Howard is currently an Emeritus Professor of Integrative Biology and Research Endocrinologist in the Cancer Research Laboratory at the University of California at Berkeley, where he has been since 1948. Howard's contribution to the field includes serving as major professor for 46 Ph.D. students and sponsoring approximately 90 postdoctoral students and visiting professors from about 20 countries. He co-authored (with Aubrey Gorbman) the first textbook in comparative endocrinology and as authored and co-authored approximately 600 scientific papers. Howard was elected to the National Academy of Sciences in 1973, holds numerous honorary doctorates, and has received a number of awards including the Hatai Medal for marine biology (1999) and the 2001 Beverton medal (Fisheries Society of the British Isles) for fish physiology/endocrinology. Thanks to Dave Norris for organizing this first Howard Bern Lecture and securing the funding and support from SICB and Elsevier to see that this lecture series continues in the future.

Message from the Secretary

Jim Carr (jacarr@ttacs.ttu.edu)

Minutes of the DCE Business Meeting
Anaheim, California
January 4, 2002

Marvalee Wake, the current SICB president, thanked DCE members for attending the meeting and mentioned that an important goal was to increase and broaden society membership. Marvalee announced a call for service in the society and invited everyone to attend the SICB business meeting. Extensive changes are proposed to the SICB constitution and by-laws so that current practices match procedures outlined in the societies by-laws.

Mike Moore announced the results of the 2001 DCE elections and thanked outgoing officers Dave Norris (Chair), Sunny Boyd (Program Officer), and Bob Denver (Secretary). The newly elected officers are David Borst (Chair-Elect), Miles Orchinik (Program Officer), and Jim Carr (Secretary). DCE members now hold numerous elected offices within SICB including John Wingfield (SICB President-Elect), Penny Hopkins (SICB Secretary), Stacia Sower (SICB Program Officer), and Sunny Boyd (SICB Secretary-elect).

Bob Dores (Editor in Chief, USA) updated the membership on the status of General and Comparative Endocrinology (please see the [accompanying report](#) in this volume of the newsletter). Approximately 250 manuscripts were submitted in 2001, and the journal currently has room for 300. The acceptance rate is roughly 70%. Approximately 25% of the manuscripts received come from the European Union, 20% from Asia and Oceania, and the rest from North America. The current turnover rate can be 9 months, but not for every manuscript. Latency to publication is only 3–4 months when Academic Press receives the final manuscript. Two reasons were cited for the long turnaround:

- a. A delay in the return of revised manuscripts to the editor.
- b. A delay in returning editorial reviews back to the editor.

Bob thanked Chuck Crumly for his service and dedication to the journal during his tenure at Academic Press.

Chuck Crumly addressed the membership regarding the change in his duties at Elsevier. Elsevier's merger with Academic Press was finalized in August of 2001. Chuck also expressed his support for publishing DCE symposia in General and Comparative Endocrinology and announced that Elsevier will contribute \$2000 a year to sponsor Bern Lectureships.

Dave Norris mentioned that the deadline for nominations for the 2003 Bern lectureship have been extended for a few weeks. The DCE Executive Committee will make the final decision. Two years of funding from SICB for the lectureship as well as \$2000/yr from Elsevier will allow the Bern lectureship to continue for the foreseeable future.

Mike Moore briefed the membership on the SICB executive committee meeting held from 7–9 am on January. Chairs from all nine SICB divisions attended. SICB membership is stable at 2200, about the same as last year but about half of what it was 10 years ago. There has been an astonishing turnaround in the financial status of SICB, as the society currently has \$1.6 million in assets. The society is currently engaged in a strategic planning process, and Mike encouraged DCE members to bring innovative ideas forward. Currently, the SICB program innovation fund is underutilized. The society is seeking nominations for members at large; submit nominations to Mike (michael.moore@asu.edu) or Marvalee Wake (mhwake@socrates.berkeley.edu). Input also is welcome on the usefulness of the Society (www.sicb.org) and DCE (www.sicb.org/divisions/dce.php3) websites.

Sunny Boyd announced that DCE had 42 oral presentations and 35 posters at the 2002 Anaheim meeting,

about the same as last years meeting in Chicago. With the new system for topic-based sessions, presenters must pick DCE as their first choice in order for talk to be scheduled with other DCE talks. Sunny announced plans for three symposia at the 2003 meeting in Toronto, two of which are primary DCE symposia. The first, entitled "Mechanisms Underlying Life-History Transitions", is being organized by John Hatle (hatle@ilstu.edu). A second symposium, entitled "New Millennium Approaches to Comparative Endocrinology", will be organized by Sunny (boyd.1@nd.edu), Miles Orchinik (m.orchinik@asu.edu), and Julie Wade. A third symposium, co-sponsored by SICB and the Canadian Society of Zoologists, is entitled "Hormones and Metabolism—A Fishy Perspective" and will be organized by M.M. Vijayan. SICB will meet in New Orleans in 2004 and ideas for new symposia are welcome (m.orchinik@asu.edu).

Kevin Kelley reminded everyone to attend the DCE-sponsored binding protein symposium at the 2002 meeting. The symposium papers will be published in the Journal of Endocrinology.

Stacia Sower announced that the 15th International Congress of Comparative Endocrinology will be organized by Burk and Associates and will be held May 23–28, 2005 in Boston. There is a \$1000 prize for grad student to design the best logo and have their registration paid for. Check the website (www.bu.edu/ICCE15/boston.html) for details. The 16th ICCE will be held in Brisbane, Australia, in 2009.

Upcoming meetings: The International Ecdysone workshop will be held in July, 2002. Contact Penny Hopkins for details (phopkins@ou.edu).

The Fourth Intercongress Symposium of the Asia and Oceania Society for Comparative Endocrinology will be held in China this year— contact Jean Joss for details (jjoss@rna.bio.mq.edu.au).

The 21st meeting of the European Society for Comparative Endocrinology will be held in Bonn, Germany August 26–31, 2002, (www.esce2002.uni-bonn.de).

The 6th Annual Meeting of the Society for Behavioral Neuroendocrinology will be held June 26–30, 2002 in Amherst, MA (www.sbn.org/Meeting/2002/2002mtg.html).

Division of Comparative Physiology & Biochemistry (DCPB): 2002 Spring Newsletter

In this newsletter:

- [Message from the Chair](#)
 - [Message from the Program Officer](#)
 - [Message from the Secretary: Business Meeting Minutes and Candidates for Election](#)
 - [Message from the Graduate Student/Postdoc Representative](#)
 - [The George A. Bartholomew Award](#)
-

Message from the Chair

Nora B. Terwilliger

Welcome to DCPB 2002. Hope you've all celebrated those unique days of 02-02-2002 and 02-20-2002, especially at 20:02. Times like that won't appear again for quite a while.

Our 2002 meeting in Anaheim was a great success, starting off with the introductory talk by Bob Full and followed by excellent symposia, contributed papers, lively poster sessions, and various field trips to places like Venice Beach, Disneyland or the Aquarium for biodiversity studies. Many thanks to the DCPB-sponsored symposia organizers and to Michelle Wheatly and Jon Harrison, our DCPB Program Officers who coordinated the Anaheim program so well.

Bartholomew Award: Congratulations to Sönke Johnsen, this year's Bartholomew Award winner. Sönke is an outstanding young investigator, and he delivered an absolutely superb talk on his research on gelatinous zooplankton, "Optical Adaptations to Aqueous Environments: Hidden In Plain Sight". In these days of PowerPoint® Presentations and PhotoShop® Phantasies, Sönke reminded us that while visual aids are sometimes helpful, the real power of a talk lies in the ability of the speaker to totally engage the audience on a personal basis. Thanks to the snowstorms in the southeast and luggage lost in the Atlanta airport, Sönke arrived in Anaheim with no slides and wearing a Swarthmore-garnet sweatshirt, courtesy of Delta Airlines. You gave us a great presentation, Sönke, and set high standards for next year's award winner. In addition to the award and the opportunity to address his colleagues at the SICB meeting, Dr. Johnsen also received a generous cash prize from Sable Systems.

Student Awards: Compliments are also in order for the winners of the DCPB Best Student Poster and Talk Competition. Congratulations to all of you and good luck in your graduate studies. J. P. Ianowski, McMaster University, won the Poster award ("Evaluation of Na:K:2Cl cotransport across the basolateral membrane in Malpighian (renal) tubule cells of *Rhodnius prolixus*"), judged by Ross Ellington, Linda Mantel and Al Bennett. The Best Student Talk award was split among Caren E. Braby, Hopkins Marine Station ("Larval settlement success and physiological adaptation in the patchwork distribution of introduced and native bay mussels (*Mytilus* spp.) in the central CA hybrid zone"), Keith P. Choe, University of Florida ("Compensation for hypercapnia by a euryhaline elasmobranch in fresh water: roles of gills and kidneys"), and Donna Folk, University of California, Irvine ("Ion regulation and water balance in *Drosophila melanogaster* selected for enhanced desiccation-tolerance"). Honorable mention went to Paul L. Dudas, University of Connecticut ("Urate transport by chick, *Gallus gallus*, renal proximal tubule epithelium"), Ryan M. Pelis, University of

Connecticut ("Active sulfate secretion by the intestinal epithelium of winter flounder is through anion exchange for chloride"), and Chugey A. Sepulveda, Scripps Institute of Oceanography ("The swimming energetics of the eastern Pacific bonito (*Sarda chiliensis*): One step closer to understanding the tuna–bonito relationship"). Judges for the student talks were Shirley Baker, George Bourne, Steve Hand, Charlie Hunter, Valerie Pierce, Mason Posner, Steve Roberts, Bob Roer, Jonathon Stillman, and Art Woods. Thank you, judges, for volunteering your time at the busy meeting, and special thanks to Jon Harrison, DCPB Program Officer, for organizing such a topnotch group of judges.

Officers and Elections: The new Secretary of DCPB is Mary Chamberlin. Congratulations to you, Mary. We also extend sincere thanks to Steve Hand and Jeannette Doeller, Chair and Secretary for the previous two years, for the excellent leadership and service they have each given the Division. Steve will be serving for another year as Past Chair on the DCPB Executive Committee, and we welcome his help.

Meetings: There are several upcoming meetings of interest to DCPB members: APS Intersociety Meeting (San Diego, August, 2002), SICB annual meeting (Toronto, January, 2003), and the Sixth International Congress for Comparative Physiology and Biochemistry (Mt. Buller, Australia, February, 2003). See the Message from the [Program Officer](#) for details regarding these meetings.

Message from the Program Officer

Jon Harrison

Anaheim: Greetings! The Anaheim meeting was excellent, partially thanks to a vibrant divisional program organized by Michelle Wheatly. A special thanks to Robert Full for an outstanding opening session talk, and to Lars Tomanek, Brian Helmuth, Malcolm Gordon, Ian Bartol, and Jay Hove for organizing DCPB symposia. A special congratulations to Sönke Johnsen, winner of the 2002 Bartholomew Award. By my count there were 84 oral DCPB presentations and 77 DCPB posters.

Toronto: The 2003 SICB meeting will be in Toronto. It will be a bit cooler than Anaheim, but Toronto is a cosmopolitan city with great restaurants, interesting sites, and a subway system that is safe and easy to use. The divisional symposia for Toronto will be: *Comparative and Integrative Vision Research*, organized by Mason Posner, Sönke Johnsen and Todd Oakley, and *30 Years of Biochemical Adaption: A Symposium in Honor of Peter W. Hochachka*, organized by Raul Suarez. In addition, there are several society-wide symposia with a DCPB-flavor, including *In Vino Veritas: The Comparative Biology of Ethanol*, organized by Robert Dudley and Michael Dickinson, *Selection and Evolution of Performance in Nature*, organized by Joel Kingsolver, and *NSF Integrated Research Challenges in Environmental Biology: Biological Stoichiometry from Genes to Ecosystems*, organized by Jon Harrison and Robert Sterner. So plan now on attending the Toronto SICB meeting!

New Orleans: Now is the time to start thinking about symposia for the 2004 meeting in New Orleans. There is a particular need for broad symposia that cross divisional boundaries. This is a great way to get involved in the society and really contribute to the program. Please email me (J.Harrison@asu.edu) to discuss ideas and get started.

Other Meetings: DCPB/SICB is co-sponsoring the American Physiological Society meeting entitled, *The Power of Comparative Physiology: Evolution, Integration, and Applied*. This meeting will be held in San

Diego in August 24–28, 2002. Don't forget that the abstract deadline for this meeting (May 1, 2002) is fast approaching. To receive the call for paper and registration information go to:

www.the-aps.org/meetings/aps/san_diego/home.htm.

A satellite symposium to this APS meeting will be held on August 29. This symposium, entitled "The UBC Legacy Symposium", has been organized to honor John Phillips, Peter Hochachka, Dave Randall and Dave Jones for their contributions to the field of comparative physiology and biochemistry. For more details go to: www.science.ubc.ca/~biomania/thebig4.htm.

Another international comparative physiology meeting on the horizon is the Sixth International Congress of Comparative Biochemistry and Physiology, organized by IUBS at Mt. Buller, Australia, Feb 2–7, 2003 (www.zoo.latrobe.edu.au/iccpb/). DCPB is a major co-sponsor of this ICCPB/IUBS series of meetings that occur every four years.

Message from the Secretary

Mary E. Chamberlin

SICB DCPB BUSINESS MEETING MINUTES, January 3, 2002

Recorded by Jeannette E. Doeller, past secretary for DCPB

The meeting was called to order by DCPB Chair Steve Hand. He announced the election results— Mary Chamberlin was elected secretary, term to start at the end of the annual meeting. Steve said thanks to Barney Rees for running for office and thanks to Jeannette Doeller for serving as secretary for the past 2.5 years.

Bill Zamer, Program Officer of the Integrative Animal Biology (IAB) program at NSF, discussed funding success rates – 14% recommended for funding in IAB, 24% recommended for funding in the Ecological and Evolutionary Physiology program. The lesson from the IAB fall panel is that "persistence pays off" – of the 12 proposals recommended for funding, 8 were resubmissions and 4 had been submitted 3 times. The NSF budget has been increased by 8%. NSF needs reviewers, panelists and rotating program officers. If interested in serving in these ways, please email your program officer (addresses on the website www.nsf.gov). Contact your program officer with hot news about your research – for example, let NSF know ahead of time of publication in Science, Nature, PNAS. Also, include in annual and final reports important firsts that have been funded by NSF – this may affect program budgets.

Steve introduced Nora Terwilliger, IUBS/IUPS representative. Nora passed out brochures about the upcoming IUBS ICCPB meeting in Australia in February 2003. SICB DCPB has co-sponsored this meeting throughout the years (the previous one was held in Calgary, Canada, 1999). A new event will occur in the 2003 meeting – the Knut Schmidt–Nielsen lecture, with George Somero as speaker. The website for this meeting is www.zoo.latrobe.edu.au/iccpb. The venue is a ski resort in summer, accommodations ranging from low price dormitories up to chalets.

Nora attended the IUPS meeting in Christ Church, August 2001, as the DCPB representative. IUPS has been restructured to include 9–10 commissions. DCPB has submitted a number of names for service as commissioner. The next IUPS meeting will be in San Diego 2005, held in conjunction with the Experimental Biology meeting. Nora introduced Lou Burnett who also serves on the National Organizing Committee for the IUPS. Lou indicated that although the 2005 meeting program is in the early planning stages, he and Nora have

made sure there are comparative physiology topics on the program. Walter Boron is the chair of the Program Committee, and Barbara Block is a member. There will be opportunities for symposium development for this meeting.

Steve introduced Marvalee Wake, SICB President. She thanked all attendees as participation is essential for the society ("service in a controlled manner is good"), and she encouraged anyone to become involved at the division and society-wide levels. If interested in serving, contact Steve Hand (shand@lsu.edu). She introduced several other individuals involved in the society – John Wingfield, President-Elect, Brett Burk of Burk Associates, and Ron Dimmock, SICB Treasurer – for questions and answers. The current meeting has about 1200 registrants, same as in Chicago, the largest meeting in recent history. Al Bennett, chair of the membership committee, indicated the society has 2100–2200 members, same as last year, with the grad student/post doc category remaining fairly constant. Marvalee thanked Al and committee members for a letter-writing campaign this summer aimed at increasing membership.

Steve introduced Jon Harrison, DCPB Program Officer. Jon indicated that there are two DCPB-sponsored or co-sponsored symposia at this meeting. Also, there are 21 candidates for the Best Student Talk competition, and 10 candidates for Best Student Poster, and 13 judges – thanks to those willing to serve this way. The approved DCPB symposia for Toronto are: "30 Years of Biochemical Adaptation: A symposium in honor of P.W. Hochachka", organized by Raul Suarez (Peter: "You're kidding!!"); and "Comparative and integrative vision research" organized by Sönke Johnsen, Todd Oakly, and Mason Posner (see [Message from the Program Officer](#)).

Jon solicited input about power-point presentations at the meeting. Is it reasonable for the session chair to be responsible for making sure computers are available? The general consensus was yes. Perhaps all information could be provided on CD, or emailed to session chairs before the meeting, who would then burn the session on a single CD. However, compatibility of computers and preparations may be a problem. Jon thought Mac and PC platforms should be available.

Jon asked for opinion concerning the inclusion of an undergraduate student registration category, and an undergraduate student competition, either division- or society-wide. The general consensus was that these are good ideas.

Steve mentioned the upcoming APS meeting in San Diego, August 2002, co-sponsored by SICB DCPB (www.the-aps.org/meetings/aps/san_diego/home.htm). Jim Hicks invited all to come.

Steve introduced Jim Hicks, the new Editor-in-Chief of Physiological and Biochemical Zoology. Jim indicated that the editorial offices, now in Irvine, are up and running, with Associate Editors Al Bennett and Tim Bradley. Because he has just assumed office, he had no statistics to present at the meeting, but discussed four changes in the journal.

- 1) There is a minor change in the journal cover reflecting the unique niche of PBZ – a subtitle "Ecological and Evolutionary Approaches".
- 2) All submissions and reviews will be done online, although things can still be sent through the mail. In about a month, you will be able to log in to the PBZ server for information. Conversion to PDF will be done at Irvine.
- 3) There will be a double-blind review system – reviewers are unknown to authors and vice versa. This is more common in the social sciences; PBZ will try this as an experiment.
- 4) The Invited Perspective has always been around, but Jim wants more submissions here. Anyone with ideas can contact Jim (jhicks@uci.edu).

Steve introduced Peter Hochachka, Editor of Comparative Biochemistry and Physiology. Peter indicated that CBP is now back on track and expressed gratitude to SICB for support. The current turnaround time is about

10 months. Acceptance rate is 60–65%, similar to AJP. Manuscript quality has increased as has number of submitted manuscripts. CBP is also affiliated with 8 other societies. SICB could publish abstracts of the annual meeting in CBP – Elsevier Press does this at cost. Pat Walsh is now co–Editor with Tom Mommsen and Peter.

Steve indicated that SICB has asked that members provide feedback concerning the website and divisional webpages. If anyone has suggestions or questions, contact Craig Frank, chair of the electronics communication committee (frank@fordham.edu). It was pointed out that although the website has been much improved, the Personal Schedule selection for the annual meeting was not as useful as it could be.

All divisions have been encouraged to reword bylaws to handle unexpected office vacancies. Steve read the new wording for vote. During discussion, it was suggested the new wording should indicate that appointed officers fill out the term to keep election cycles intact. New wording now reads: "In the case when a divisional office is unexpectedly vacated, the current Nominating Committee will recommend to the Chair an interim officer who will be appointed to serve the remainder of the term." Vote was unanimous in favor of new wording.

The meeting was opened for discussion:

Timing of the poster sessions is bad, interfering with evening activities. However, because this is one of few meetings at which graduate students have a chance to make an oral presentation, contributed papers should not be eliminated. Suggestions: contributed paper sessions could end at 3PM and poster sessions could go from 3–5PM; evening poster sessions could be supplemented with refreshments; contributed papers and poster sessions could be scheduled at the same time, creating conflicts but there are always conflicts – "this is the price we pay for being in an integrative society, and it's a good price". In a straw vote, there was only one vote to eliminate contributed papers.

The program format is not ideal, using a non–sequential numbering system. Suggestions: this is the time to lobby the new SICB Program Officer Stacia Sower (sasower@cisunix.unh.edu). Any feedback about topical organization of presentations should be sent to Jon Harrison (j.harrison@asu.edu) or Stacia Sower.

Steve thanked Tim Bradley, rotating off as Past DCPB Chair, for all his work, and he thanked Nora for becoming the new DCPB Chair. At the end of the meeting, Steve becomes the Past Chair. Nora presented Steve and Jeannette with covers of the new Hochachka and Somero Biochemical Adaptations book (the books themselves are on order). Many thanks to the division for such a great gift! Nora discussed the rising prominence of comparative and integrative physiology in other societies such as APS.

After a brief intermission, Steve introduced the 2002 Bartholomew Award winner, Dr. Sonke Johnsen. Dr. Johnsen was presented with a certificate of recognition and other prizes, and then gave the Bartholomew Lecture entitled "Hidden in Plain Sight".

ELECTION OF OFFICERS

We are holding elections for DCPB Chair–elect and Program Officer. The electronic ballots will be distributed during the summer. Please be sure to vote when your ballot arrives!

Program Officer Candidates

Donna L. Wolcott

Current Position: Associate Professor, Department of Marine, Earth, and Atmospheric Sciences, North Carolina State University, Raleigh, NC.

Education: B.A. (1965) UC Riverside, Biology; Ph.D. (1972) UC Berkeley, Developmental Biology.

Professional Experience: Postdoctoral Fellow (1972–73) Toxicology, NCSU; Visiting Lecturer (1974–75) North Carolina Central University; Research Assoc. NCSU (1980–86); Visiting Associate Professor NCSU (1986–96); Director of Undergraduate Programs, Department of Marine, Earth, and Atmospheric Sciences (1994–); Associate Professor NCSU (1996–); Research Associate, Smithsonian Institution (1998–)

SICB Activities: Member since 1980. Secretary, Div. Invertebrate Zoology, 1995–97. Co-organized symposium with Guy Charmantier, "Ontogenetic Strategies of Invertebrates in Aquatic Environments", Chicago, 2000.

Other Memberships: AAAS; American Geophysical Union; American Society of Limnology and Oceanography; American Women in Science; The Crustacean Society; Phi Beta Kappa; Sigma Xi; Panel member, National Science Foundation, Physiological Processes–1990.

Research Interests: Physiological ecology of aquatic and terrestrial crabs. Physiological and behavioral constraints and strategies in the blue crab, *Callinectes sapidus*, with emphasis on reproduction, foraging, and molting. Identification, through field observation, of environmental stressors; study of morphological, behavioral, biochemical and developmental adaptations to stress. Dispersal and recruitment and its effect on population structure and life history strategies. Nitrogen excretion and limitation in decapod crustaceans.

Statement of Goals: The Society of Integrative and Comparative Biology represents the "culture of science" at its best. As much as we might relish the relative solace that the lab bench provides, research, and particularly its extension into teaching and outreach, is not a solitary enterprise. The Society provides its members with tools they need to address intellectual, ethical, and social obligations. The SICB annual meetings provide opportunities for sharing our own research, exposure to new research findings in both related and far-flung research areas, interactions with both well-established colleagues and those just embarking on a career in science, and help with doing a better job of educating our students and the general public. The recent strengthening of interdisciplinary symposia and better coordination between societies, and the financial health of the Society, have placed the Society to continue into the 21st Century as a dynamic entity, useful to its members and to society at large. Since only active members derive benefit from SICB, and vice-versa, my goal would be to encourage renewed participation by inactive members in the society and its meetings, and to inspire new scientists to join. If financially feasible, discounted registration fees for first-time meeting participants might be a powerful incentive.

Donald L. Mykles

Current Position: Professor, Department of Biology, Colorado State University, Fort Collins.

Education: B.A., University of California, Santa Barbara (1973); Ph.D., University of California, Berkeley (1979).

Professional Experience: Muscular Dystrophy Association Postdoctoral Fellow (1981–1983); Postdoctoral Fellow, Oak Ridge National Laboratory (1979–1983); Research Associate, ORNL (1983–1985); Assistant (1985–1988), Associate (1988–1993), Full Professor (1993–), Colorado State University. NSF Presidential

Young Investigator Award (1989); Fulbright Scholar and Guest Professor, University of Heidelberg (1991); Fulbright Intercountry Visitor to the U.K. (1991); Associate Editor, *The Journal of Experimental Zoology* (1994–1999); Distinguished Research Fellow at Bodega Marine Laboratory, University of California, Davis (1998); Editorial Board, *Comparative Biochemistry and Physiology*, 2002–2004.

SICB Activities: Invited speaker in four SICB symposia (1985, 1990, 1998, 2000); DCPB Nominating Committee (2001).

Other Memberships: The Crustacean Society; American Microscopical Society; American Society for Cell Biology; Sigma Xi, American Association for the Advancement of Science; American Society for Biochemistry and Molecular Biology; Society of General Physiologists.

Research Interests: Regulation of molting and limb regeneration in decapod crustaceans using cellular, biochemical and molecular biological methods.

Goals Statement: I have been a member of ASZ/SICB for twenty–five years. The DCPB is a major forum for integrative and comparative biologists nationally and internationally. As Chair, I would support and foster programs and meetings that promote the exchange of ideas and techniques across the broad spectrum of biological diversity and organization. This can be done in conjunction with other divisions in SICB, as well as with comparative biochemistry and physiology societies in other nations. DCPB should continue its involvement with the International Union of Physiological Scientists (IUPS) and the International Union of Biological Scientists (IUBS) in organizing international meetings. We must also redouble our efforts to include students and junior faculty in SICB meetings and governance; their participation is key to a vital future for the Society.

Program Officer Candidates

Richard Lyle Londraville

Current Position: Assistant Professor of Biology, University of Akron

Education: B.S., Marine Biology, Long Island University, Southampton Campus (1987);

M.S., Zoology, University of Maine, Orono (1989); Ph.D., Zoology, University of Maine, Orono (1994).

Professional Experience: Postdoctoral Fellow, Stanford University, Hopkins Marine Station (1994–1996); Assistant Professor of Biology, University of Akron (1996–present).

SICB Activities: Active member and meeting participant since 1988; Session Chair, *Thermoregulation*, 1996 SICB meeting, Albuquerque, NM.

Other Memberships: AAAS; National Association of Biology Teachers

Research Interests: My lab studies cell function in relation to temperature and most of our work has focused on proteins in animals with different body temperatures. Recently, we have been studying the hormone leptin in fish and lizards. Leptin may influence a suite of traits, from onset of reproduction to endothermy, and we hope to understand its role in the evolution of vertebrate fat metabolism.

Goals Statement: As program officer for DCBP, I would encourage all of our members to use symposia as a way to recruit new members to the division and to SICB. For example, I would support symposia that highlight the application of emerging technologies (e.g. advances in engineering, genomics, and proteomics) to problems in comparative physiology and biochemistry. Students initially attracted to a technique would hopefully get hooked on a broader question. I would also work with SICB's Education Council to organize education-based sessions targeted for our division. Because comparative physiologists dip into many disciplines for their research, they are often the best prepared to teach introductory Biology classes. Many campuses are dramatically changing the way these introductory classes are taught, often with NSF-sponsored grants. These introductory classes are excellent opportunities for recruiting students to comparative physiology, and therefore I think our members would be well served to learn about advances in biology education.

Michael Hughes Dickinson

Current Position: Williams Professor, Department of Integrative Biology, UC Berkeley;

Professor of Bioengineering, California Institute of Technology (Starting 7/1/02).

Education: Sc. B., Neural Sciences, Brown University (1984); Ph.D., Zoology, University of Washington (1989).

Professional Experience: Consultant, Boeing Aircraft Corporation (1986); Visiting Scholar, Max Planck Institute for Biological Cybernetics (1991); Postdoctoral Fellow, Roche Institute of Molecular Biology (1990–1991); Assistant Professor, Department of Organismal Biology and Anatomy, University of Chicago (1991–1996); Associate Professor, Department of Integrative Biology, University of California, Berkeley (1996–1999); Professor, Department of Integrative Biology, University of California, Berkeley (1999–present).

SICB Activities: Invited participant in four SICB (ASZ) Symposia: Evolution and Nervous Systems (1991); Aquatic Locomotion: New Approaches to Invertebrate and Invertebrate Biomechanics (1995); Muscle Properties and Organismal Function: Shifting Paradigms (1996);

Swimming and Flying in Nature (2002).

Other Memberships: Society for Neuroscience; International Society of Neuroethology

Research Interests: In my lab, we attempt to study the flight control behavior of insects simultaneously at several levels of analysis, from the physiological properties of individual neurons and circuits, to the skeletal mechanics of wing motion and the production of aerodynamic forces. This multi-leveled approach is challenging, and yet rewarding, since novel insight is often gained by addressing a problem simultaneously from several perspectives.

Goals Statement: As program officer for DCPB, my goal would be to broaden the depth of the division by recruiting researchers from areas traditionally outside the SICB community. In recent years, many bright and energetic individuals have emerged from the fields of genetics, molecular biology, biochemistry, biophysics with a keen interest in applying their experimental and analytical tools toward systems-level problems. I believe that the DCPB symposia represent excellent means of cross-fertilizing research in these more reductionist disciplines with the organismal approaches represented by the SICB membership.

Message from the Graduate Student/Postdoc Representative

Jennifer Head

Allow me to introduce myself as the new student representative for the DCPB. Presently, I am a Ph.D. student at the University of Oregon at the Oregon Institute of Marine Biology (OIMB) in Charleston, conveniently located on the breathtaking southern Oregon Coast. My interests in physiology extend back to my days as an undergraduate at the University of North Carolina at Wilmington, and continued on into my Masters work in Liège, Belgium, as well as my doctoral work here at OIMB. As an undergraduate, disillusioned by the glamour of Marine Biology, I became haplessly enthralled with the diving physiology of elephant seals thanks to a course in animal physiology eloquently delivered with emphasis on adaptation and the environment. In a more realistic endeavor as an undergraduate in North Carolina, I studied the respiratory responses of a local crab to changes in temperature, and so began my work with crustacean osmoregulation and respiratory physiology. I must say, I make a much more sensible scientist as a crabologist. As my research interests matured, my appreciation for integrative approaches to answering the questions I was posing grew by leaps and bounds. Now, primarily as an ecophysiologicalist with an emphasis on molecular biology and biochemistry, the importance of understanding an organism on a molecular and biochemical level can only be surpassed by understanding how and why an organism and its constituent parts function as they do in the context of its environment, be it in constant fluctuation or perfectly homeostatic.

On that note, at this past SICB meeting in Anaheim, this being my first SICB experience, aside from being delighted by the rare opportunity to cross paths with friends, colleagues, and former professors turned friends and colleagues, I was galvanized by the scope of research being undertaken by members of the various SICB divisions. In a whirlwind of stimulating symposia, talks, and posters, in what became as much a challenge of my time management skills as it did an attempt to satiate my curiosity, I listened to some tackle such grandiose topics such as metazoan evolution, some who showed that observing evolutionary changes in gene expression is more feasible than ever, and some who used new and innovative approaches to investigating the role of HSPs in vertical zonation of the intertidal, all while provided the opportunity to brush up on my methods of phylogenetic analysis. I was also afforded the occasion to learn about such topics as the importance of tongue flicking in post-strike chemosensory trailing in rattlesnakes by providing tech support in exchange for housing support so graciously provided by SICB.

This brings me to another point I wish to make. I was surprised discover how many students were not aware that SICB was providing either registration or housing support to students for a mere half-day of our time. I encourage you to pass on word to your peers and fellow students about such opportunities. I would also like to bring to your attention that SICB will be co-sponsoring a meeting being put together this summer by the APS entitled: The Power of Comparative Physiology: Evolution, Integration, and Applied. The various symposia address such important questions as: what are the genetic responses to environmental stress? This is the dawn of a new age, where more than ever before, comparative biologists are beginning to ask themselves what genetic mechanisms are behind the physiological and biochemical responses we observe in response to fluctuations in environmental factors such as temperature and oxygen availability. What are the pathways involved? What is being upregulated to produce such responses? What is being repressed? Are the genes as well as the pathways involved conserved across taxa? I digress. Make special note of the fact that the APS is offering student and postdoctoral travel awards that will be selected from amongst the submitted abstracts. Ahhh—I love a challenge.

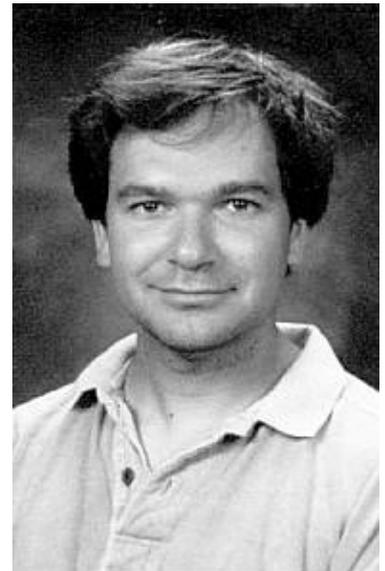
I will close by saying that aside from the fact that there seemed to be significantly more vegetarians than vegetarian sandwiches at the student/post-doc luncheon, this past SICB conference was nothing short of splendid.

If you have any comments or questions, I would love to hear from you . I can be reached at: jhead@oimb.uoregon.edu. A la prochaine.

The George A. Bartholomew Award

Sönke Johnsen graduated from Swarthmore College in 1988 with a degree in Mathematics, a strong background in sculpture and painting, and next to no training in Biology. After stints as a dance instructor, kindergarten teacher and free-lance carpenter, he began working with Stuart Kauffmann at the University of Pennsylvania and the Santa Fe Institute investigating the theoretical underpinnings of co-evolutionary dynamics. After two years, and desperate to learn about real animals, Sönke drove down to North Carolina to begin his Ph.D. studies with Bill Kier at the University of North Carolina at Chapel Hill. After three years spent trying to get ophiuroids to behave in an understandable manner and three more years trying to understand the morphology and visual system of what are, in essence, living rocks, he left echinoderms and North Carolina for a postdoctoral fellowship with Edie Widder at the Harbor Branch Oceanographic Institution.

Here, Sönke began his work on the transparency of oceanic zooplankton, collecting and measuring the optical properties of these animals and their environments on various research cruises in the Atlantic Ocean and the Gulf of Mexico. After 18 months, he moved north to Cape Cod, to take a second postdoctoral fellowship with Larry Madin at the Woods Hole Oceanographic Institution, continuing to work on the same topic, occasionally branching off into studies of bioluminescence, zooplankton distribution, and magnetic orientation behavior. After 18 more months, the postdoc transformed itself into a job at Woods Hole. One year later, he moved back to North Carolina to take an Assistant Professorship in the Biology Department at Duke University, where he remains. His current projects include the physical and cellular basis of transparency, the usefulness of coloration as a cryptic strategy, the effect of UV radiation on vertical migration and visual predation, and the nature of magnetoreceptors in sea turtles and spiny lobsters.



The 2001 Bartholomew Award recipient, Sönke Johnsen

Division of Developmental & Cell Biology (DDCB): 2002 Spring Newsletter

Message from the Chair

Patricia Glas

Dear DDCB members,

We are continuing to work on re-building the Division. Our plans include advertising the Division at the Annual Meeting in Toronto. Advertising includes co-hosting symposia if possible. I would like to try to have a business meeting that includes some sort of social to attract graduate and post-doctoral students in search of free food, then attract them to the Division with our plans of a Symposium in New Orleans.

The Symposium for New Orleans will combine classical research with cutting edge science. The thrust of the symposium will be to attract high school students to science careers and undergraduates to joint SICB and continue in the sciences. We will seek support from NSF and from SICB to sponsor the symposium. Tentative afternoon workshops for the teachers and students will be at area colleges.

We are looking for members to serve as a nominating committee. Officers needed for our division include Chair-Elect, Secretary/Treasurer, Secretary/Treasurer-Elect, Program Officer Elect, and a Graduate/Post-Doc representative. None of these positions demand an immense amount of time as most of the work can be easily spread over the year. Of course, the biggest push is when we host symposia during a meeting. However, the position always looks good on your resume or in your personal data sheets for the year!

Anyone interested in working on the symposia for New Orleans, or serving as an officer and helping rebuild the Division should contact me at glasp@citadel.edu or bioglas@bellsouth.net.

Have a good summer!

Pat Glas

Chair, Division of Developmental and Cell Biology

Division of Evolutionary Developmental Biology (DEDB): 2002 Spring Newsletter

In this newsletter:

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

Message from the Chair

Günter Wagner

Ken Halanych, our secretary, advised me to be brief. And right he is, who wants to read more than three lines from a society officer? Here are my items:

- **Membership:** whatever the division can do for you scales with the size of membership. We currently have about 215 members, which is way below the number of DevoEvo researchers. Please encourage your friends and colleagues who are in the field to become members of the Division for Evolutionary Developmental Biology and of SICB, if they are not already society members. Tell them that SICB has substantially reduced member fees.
- **Student Membership:** this is a continuation of the previous point but sufficiently important to warrant a different item. SICB offers substantial benefits to its student members. There are ample opportunities for graduate students to present their work in oral presentations and to win prizes for outstanding contributions. Also the fellowships for attending the annual meetings are a considerable. So please encourage your students, if your faculty, or your friends, if you are a student, to join SICB and DEDB to make this division a more exciting place.
- **Elections:** during this year we will elect the next chair of the Division. I am grateful that two outstanding members of our community have agreed to be nominated: **Paula Mabee** and **Brian Hall**. Please look for their statements in this Spring Newsletter. I also want to thank the members of this year's nomination committee, Mark Martindale (chair), Patricia Hernandez and Ken Halanych for serving on that committee. Please show your support for the division by participating in this election.
- **International Prize for Devo Evo:** the Saint Petersburg Society of Naturalists has re-activated a long dormant international prize for Evolutionary Embryology: the **Alexander Kowalevsky Medal**. To my knowledge this is currently the only international prize in our discipline. Three of our division members are among the first set of recipients: **Gary Freeman**, **Brian Hall** and **Rudy Raff**. Please join me in congratulating them for this recognition of their achievements.

Division activities: this is your division, please help us serve you better by sharing your ideas. Would you like to see us organize discussions and workshops on topical DevoEvo issues? Please send me your suggestions to gunter.wagner@yale.edu with the keyword DEDB Activities. Thank you!

- **Molecular and Developmental Evolution** is now available to SICB members at a discount price for personal subscription. This will make MDE the second DevoEvo journal affiliated with SICB. You will receive a communication with the details of this arrangement from the publisher soon.

Last but not least I want to thank the outgoing officers of DEDB, **Rudy Raff**, chair, **Mark Martindale**, program officer, and **Patricia Hernandez**, student representative for helping the division to a terrific start. It is my ambition to come close to what this group did for our division. Please join me in thanking them for their exemplary service.

Message from the Program Officer

Eduardo Rosa–Molinar

Saludos! The results of the "Best Student Paper Competition" in the Division of Evolutionary Developmental Biology (DEDB) from the recent 2002 SICB meeting in Anaheim California are in. Although there were many excellent presentations, for the second straight year the Program Committee found itself deadlocked on two outstanding presentations. These were from:

Kaplan, P. from the University of Michigan entitled:

"Ontogenetic and evolutionary dynamics of shape disparity in the trilobite arthropod *Phacops*"

Crotwell, P.L., and Mabee, P.M. from the University of South Dakota entitled:

"Gdf5 expression in late–stage Zebrafish, *Danio rerio* median fins."

These two winners demonstrate the expertise and breadth of topics that the DEDB represents. Congratulations to these winners for their work and many thanks to the judges for taking time to evaluate the presentations.

For the 2003 SICB meeting in Toronto, it appears that DEDB will be co–sponsoring Francesco Santini's symposium entitled: "*Patterns and Process in the Evolution of Fishes*." Keep checking the SICB website and DEDB newsletter for updates regarding the finalized list of symposia that DEDB will sponsor and/or co–sponsor.

In Anaheim, the "*New perspectives on the origin of metazoan complexity*" organized by Ruth Ann Dewel, James G. Gehling, and Julian P. S. Smith III; "*The Cambrian explosion: Putting the pieces together*", organized by Graham Budd and Kevin Peterson, and the "*Ecological developmental biology*" ("Eco–Devo") organized by Scott F. Gilbert and Jessica Bolker were all well attended and provided stimulating discussion. I congratulate the organizers and all speakers.

It is time to begin planning new symposia for the 2004 SICB meeting in New Orleans. Please feel free to contact me if you would like to discuss future symposia. Encourage your graduate students and colleagues to join SICB and the DEDB and keep sending your original research papers and symposia to ***Evolution and***

Development (Blackwell Science, Inc.) and *The Journal of Experimental Zoology (Molecular and Developmental Evolution)* (Wiley-Liss, Inc.). Both journals are sponsored by SICB for DEDB. I would like to thank Mark Q. Martindale for his time and effort in his position as DEDB's program officer. I have some big shoes to fill and I hope that all of you will bear with me while I am learning the ropes. Saludos!

Message from the Student/Postdoc Representative

Brad Davidson

Hello everyone. Another excellent meeting this year! As your new representative I am interested in soliciting ideas for how to improve future meetings and in particular the resources available for grad students and post-docs. Marcus Davis and I met after the business meeting and came up with a few ways to improve grad student/postdoc resources...

1. Come up with an official tally of grad student/post-doc members in the division and develop ways of increasing enrollment.
2. Plan for a grad student/postdoc social.
3. Coordinate small informal group or one-one meetings between professors and grad students/post-docs interested in their research. These meetings would occur next year at the Toronto meeting. (Professors would reserve "office hours" during meeting, and post hours on the meeting site.)
4. Publish a searchable database of evo-devo professors, students and post-docs including contact information and research interests.

I hope some of these ideas sound useful, please send me (bjd@u.washington.edu) your feedback and suggestions and I will try to implement those ideas which seem to have the broadest appeal.

Message from the Secretary

Ken Halanych

Greetings all. I just have a few topics that I want to mention. First, biographical sketches for the two President-elect candidates (**Brian Hall** and **Paula Mabee**) are below. Please take the time to read over these before your vote (which will occur well be for the annual meeting this year).

The second topic concerns archiving divisional information. The officers are making a concerted effort to organize meeting notes, bylaws, and division-related information. This information will be placed on a secure page off of the divisional webpage. These measures are being taken to provide some "corporate memory" for the division that will make life easier for future officers.

Last, we are still looking to beef up the divisional webpage. If you have ideas please send them to me (khalanych@whoi.edu). The division also provides a valuable resource for mailing out evo–devo information (e.g., symposia announcements, job announcements, etc.). If you need to reach the division membership, feel free to contact me.

Elections: Candidates for President–Elect

Brian K. Hall

Current Position: George S. Campbell Professor of Biology and Professor of Biology, Dept. Biology, Dalhousie University, Halifax, NS Canada B3H 4J1

Education: University of New England, Armidale, NSW Australia, B.Sc. (1963), B. Sc. (Hons) 1965, Ph.D. 1969 (zoology), D.Sc. 1977 (Biological Sciences)

Professional Experience: George S. Campbell Professor, Biology, Dalhousie University 2001–2007; Killam Faculty of Science Professor, *ibid* 1996–2001; Killam Research Professor, *ibid* 1990–1995; Professor of Biology 1975–; Associate Professor of Biology 1972–1975; Assistant Professor of Biology 1968–1972

SICB Activities: Symposium co–organizer (with Lennart Olsson), "Developmental and Evolutionary Perspectives on Major Transformations in Body Organization" (Boston, 1998); International Guest at Centenary Meeting of SICB in Boston.

Other society activities: (selected) Member of Intern. Board of Directors, Int. Soc. Differentiation (1998–2002), Member of nominating committee and past member of scientific committees, Int. Congress Vertebrate Morphology; Member Canadian National Committee of Inter. Union of Biological Sciences; Fellow of the Royal Society of Canada (1985), Honorary member, St. Petersburg Soc. of Naturalists 2001

Research Interests: The development and evolution of neural crest–derived skeletal tissues; how mechanical influences modulate differentiation of skeletal cells; fundamental underpinnings of evo–devo – through review synthesis; the analysis of homology; the phylogeny and development of invertebrate cartilages; intersections between evo–devo and palaeontology.

Goals Statement: To consolidate the tremendous advances made in the first years of the division by seeking further integration of evo–devo with ecological and palaeontological approaches. To promote student membership in the division. To work toward high–level and high–profile publication of divisional symposia. To ensure integration of the activities of this new division with more well established SICB divisions.

Paula Mabee

Current Position: Professor, Department of Biology, University of South Dakota, Vermillion, SD.

Education: NSF Postdoctoral Fellow, 1991, Dalhousie University, Nova Scotia; Postdoctoral Fellow, 1989, Smithsonian Institution, Ichthyology; Ph.D. 1987, Zoology, Duke University, Durham NC; B.A. 1981, Biology, Religion, St. Olaf College, MN.

Professional Experience: University of South Dakota, Professor, August 2001 – ; University of South Dakota, Associate Professor, August 1997 – August 2001; San Diego State University, Associate Professor, August 1995 – May 1997; San Diego State University, Assistant Professor, January 1991 – August 1995.

SICB Activities: Past–chair, Division of Systematic Zoologists (2000 – 2001); Chair, Division of Systematic Zoologists (1998 – 2000); Chair–elect, Division of Systematic Zoologists (1997 – 1998); Educational workshop "Phylogenetics for Dummies" organizer (Atlanta, 2000); Symposium co–organizer (Atlanta, 2000); Divisional representative for Systematic Zoology for Education Committee; Editorial Board; Nomination for Member at Large.

Other memberships: American Association for the Advancement of Science; American Institute of Biological Sciences; American Society of Ichthyologists and Herpetologists; Association of Systematics Collections; Sigma Xi; Society for Developmental Biology; Society of Systematic Biologists.

Research Interests: Evolution and development of the fish skeleton; patterning of median and paired fins; phylogeny of fishes.

Goals Statement: As Chair of DEDB, I would search for every opportunity within SICB to advance the intellectual synthesis of evolutionary and developmental biology. I would encourage the development of symposia and other gatherings in which contributions are solicited from the diverse fields pertaining to devo/evo that are already represented in the divisions of SICB (e.g. paleontology, phylogenetics, morphology, ecology, functional morphology, and molecular gene regulation).

Division of Ecology & Evolution (DEE): 2002 Spring Newsletter

In this newsletter:

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

Message from the Chair *Cathy McFadden*, Secretary *Michael Temkin* and Program Officer *Brian Helmuth*

The DEE Officers wish to thank everyone who participated and helped make the 2002 annual meeting in Anaheim a great success. This meeting rivaled the 2001 Chicago meeting as one of the largest ever. Despite the throngs, the convenient physical layout of the meeting rooms at the Anaheim Marriott combined with an excellent schedule put together by the SICB and Divisional Program Officers meant that rooms were rarely overcrowded and it was easy to move quickly between sessions. By all reports the symposia sponsored or co-sponsored by DEE were a success, and we are already looking forward to Toronto in 2003. Given the large number of symposia in which DEE was involved in 2002, we scaled back somewhat in 2003 to increase the number of opportunities for other divisions. We are pleased to announce that our primary symposium proposal was selected to be one of the two society-wide symposia: "Selection and Evolution of Performance in Nature," organized by Joel Kingsolver (University of North Carolina, Chapel Hill). We are now actively looking for symposium ideas for 2004 in New Orleans, so please contact DPO Brian Helmuth (helmuth@biol.sc.edu) soon if you are interested in organizing a session.

Twenty-nine students competed for DEE best oral and best poster presentation awards in Anaheim. All presentations were of very high quality and the judges had a difficult time deciding on two winners. Best oral presentation was awarded to Vance Vredenburg (Univ. of California, Berkeley) for his talk entitled "Exotic Species and the Decline of Amphibians: Unintended Consequences on a Global Scale". The best poster presentation went to Adam Reitzel (Univ. of Florida) for his poster on "Maternal Investment and Morphological Plasticity: Insights from Subtropical Echinoids". Both winners received checks for \$100.00. We extend our congratulations to both of them, and also thank those dedicated volunteers who served as judges: A. Moran, A. Steyermark, R. Turingan, B. Helmuth, H. Schoenfuss, M. Horn, L. Beldon, C. Trowbridge, L. Basch, R. Thacker and C. Frank.

Brian Helmuth's term as DEE Program Officer ends with the 2003 meeting in Toronto, and we will hold elections this year to replace him. Nominees for the position are Michele Nishiguchi (New Mexico State University) and Emily Carrington (University of Rhode Island). Brief biographies of each candidate are [included below](#). Ballots will be sent out via e-mail during the summer.

A list of all DEE members is now posted on our [divisional website](#). Please check to make sure you are on this list if you think you belong to DEE, since we have already found many errors and omissions! We also welcome any suggestions for other items or links to include on the DEE website that would be a service to our members – for instance, we would be happy to post announcements of meetings, summer student research opportunities, etc. Please send your ideas for the website or any other suggestions for how DEE can better

serve you to DEE Chair Cathy McFadden (mcfadden@hmc.edu).

Minutes of the DEE Business Meeting Jan. 4, 2002

The meeting was called to order by Cathy McFadden, DEE Chair at 5:21 P.M.

The approval of the minutes for the 2001 DEE business meeting was deferred until the end of the meeting because a quorum was not initially present. At the end of the meeting, Sara Lindsay moved to approve minutes from last year. The motion was seconded by Rachel Merz. The minutes were approved by the members at the meeting.

Cathy announced that the winners of the best student presentations at the 2001 annual meeting were Linda Ilse (Oklahoma State Univ.) for best oral presentation and Lisa Belden (Oregon State Univ.) for best poster presentation. The DEE executive committee and especially the past-secretary, Linda Walters, wanted to thank the people who served as judges for both last and this year's best student presentation competitions. Cathy also announced the winners of the division elections that were held for the offices of Chair-elect and Secretary. Mary Alice Coffroth was elected Chair-elect and Michael Temkin was elected Secretary. Cathy thanked all of the candidates as well as all those who had voted. She noted that SICB is trying to standardize the timing of divisional elections and that these changes might require altering the division's by-laws. The specifics of this issue needed to be discussed as new business. Cathy also commented that as she sorted through old DEE papers that there were no minutes from previous meetings. She recognized this as a problem because there is no formal record of discussions or votes from previous DEE business meetings. Cathy also reported that 1200 people attended the 2002 SICB meeting, a new meeting record. Last year's meeting broke even or near even financially and Burk and Associates are projecting the same for this year.

DEE Program Officer Brian Helmuth reported he is interested in receiving new ideas for symposia. Currently, DEE is not sponsoring any symposia at the 2003 meetings in Toronto. He asked people who are considering organizing a symposium for the 2004 meetings in New Orleans to please contact him in the near future because they need to be preparing their symposia now. He also noted that his three-year term as DEE Program Officer is ending with the 2003 meetings. Consequently, the division will need to find two candidates who will be interested in running for election.

Secretary Mike Temkin reported that he had met with the other divisional secretaries at a meeting earlier in the day. The three major issues that were discussed at the meeting were the preparation of the spring and fall divisional newsletters, the timing of divisional elections, and the performance of Burk and Associates.

Cathy and Mike reported that SICB is trying to standardize the timing of elections across all divisions. The schedule that has been presented is for nominating committees to find candidates to run for office before March 4th so that candidate biographies can appear in the spring newsletter and for elections to be held over the summer. The winners of the elections will then be announced in the fall newsletter. To help with the election of the DEE Program Officer, Cathy asked those people attending the meeting to suggest potential candidates and noted that self-nominations were welcome. Cathy reported that SICB would like to have elected officers shadow current officers to learn the responsibilities of the positions. This policy might require some terms of office to be increased from two years to three years. Changing the terms of executive committee members was thought to have at least two consequences. First, it would affect the schedule of elections. Currently, not all of the officers are elected in the same year, so that the entire board does not turn over at the same time. Changing the length of terms may cause this asynchrony in elections to be lost. Second, it was suggested that it might be harder to find candidates for positions if the lengths of terms became too long.

Cathy reported that the society has charged each division with reviewing their by-laws. She discovered recently that a number of amendments which were apparently made to DEE's by-laws at the Atlanta meeting two years ago have never made it into SICB's records. One of the major changes to the by-laws that will have to be made in the future concerns the midterm replacement of executive committee members. Currently, there is nothing in our by-laws that provides adequate guidance concerning the replacement of executive committee members, especially the office of Chair. Several people suggested that we should investigate how other divisions have written their by-laws concerning midterm replacement of officers. Rachel Merz indicated that DIZ was following the Society guidelines for officer midterm replacement. She also stated that in having to make a recent midterm replacement, consultation with the President of SICB had been very helpful. Some members expressed concern that the helpfulness of the SICB President might be dependent on who was in that office at the time. Some members suggested that the DEE executive committee make a decision about a midterm replacement with guidance from the entire membership. Some members expressed concern that the executive committee required some amount of latitude in order to make the best decision no matter who they consulted with. Some suggested that the candidate who lost the last election might be asked if they would take on the position. Some thought that the previous past officer might be called back into service until an election could be held. The availability of both losing candidates and past officers to assume new duties was questioned. Cathy said that she would continue to investigate the possibilities. However, any proposed changes to the by-laws will need to be published in a newsletter at least 60 days in advance of the next meeting to allow for a vote.

Cathy stated that she had found in Past-chair Sally Woodin's old notebooks a copy of a list of officer's duties, which would make a good starting point for entries in an Officer's Handbook that is to be posted on the SICB website. This handbook would provide new officers with information about how to do their jobs and help to prevent some of the information loss and reinventing-the-wheel that has been happening every time a new officer takes over and has to figure out from scratch what they're supposed to be doing.

SICB President Marvalee Wake thanked the members of DEE for attending the 2002 SICB meeting. She said that the Society was very interested in receiving input about this and future meetings. She stated that the SICB executive committee was seeking to increase participation in the society by 1) increasing membership, especially among graduate students and postdocs and 2) providing symposia with new perspectives. Marvalee noted that she hoped that members would continue their participation in divisional and society affairs. Lastly, she requested that anyone who wanted to make suggestions or comment on the Society or Burk and Associates should e-mail her or other members of the SICB executive committee.

Cathy asked members their thoughts about the effectiveness of the society website and requested members to send materials that they would like to see on the DEE webpage to either her or the Secretary. Such material could include information about summer classes or other professional meetings. She noted that a list of division members would be posted on the DEE webpage. Some members stated that they had problems with family memberships and inquired if their memberships had been fixed on the website. When asked about the newsletter format, members responded that the web based newsletter was fine and that no hard copy of the newsletter needed be sent to all members of the division. When asked if the members wanted the newsletter as a PDF file, some members said that PDF files presented e-mail compatibility problems with Pine. The suggestion was made to send an e-mail with a link to a PDF file. Cathy reported that Burk and Associates would like to continue electronic balloting for society and divisional elections. Burk and Associates reported that voter turn out had been an order of magnitude higher this year than last year. Members indicated that e-mail ballots were preferred over visiting the website.

Members reported their experiences with Burk and Associates to be better this year than last year. Some members believed that Burk and Associates was paying more attention to lower ranking members than in the previous year. Some members reported good and prompt service, especially from both Brett and Mike, who respond quickly. Some members recognized that Sue is often out of town and not always able to respond to

e-mail promptly.

Cathy reported that DEE is still one of the largest divisions with about 250 members. All SICB divisions receive \$2000 for each meeting. However, divisions may request more money if it is required, especially for special projects that are society related. She noted that at this and the previous meeting talks were arranged topically and not by division. Members were queried if they felt that they were losing their divisional identity? Members responded that they believed their identities were intact and in fact felt allied with several of the SICB divisions. When asked about increasing DEE membership, members suggested including more plant-oriented people and possibly co-hosting a winter regional meeting with ESA. Another suggestion was to co-sponsor symposia with ESA at future SICB meetings. One suggestion was to sponsor a social next year with DIZ, since many members belong to both divisions.

Rachel Merz invited all those at the DEE business meeting to join the DIZ social. The meeting was adjourned at 6:21 P.M.

Respectfully submitted,
Michael Temkin
DEE Secretary

DEE Candidates for Election

Candidates for DEE Program Officer

Emily Carrington (formerly Emily Bell)

Current Position: Assistant Professor, Department of Biological Sciences, University of Rhode Island.

Education: B.A., Cornell University, 1985. Ph.D., Stanford University, 1992.

Professional Experience: Killam Postdoctoral Fellow, Department of Zoology, University of British Columbia, 1992–1995.

SICB Activities: Member since 1992. Symposium participant, 2001.

Other Memberships: American Society of Limnology and Oceanography, Phycological Society of America, Sigma Xi

Research Interests: My general interest in biology is the ecomechanics of rocky shore organisms. Applying the principles of engineering to both plants and animals, I seek to understand how the morphology and structure of an organism affects its ecological function.

Goals Statement: Like many members of SICB, my interests in biology are truly interdisciplinary. As a result, I have found myself "bouncing" between various meetings in recent years, presenting my research to audiences that specialize in specific taxa, habitats, or disciplines. While this approach has its merits, it was through my recent involvement in the Anaheim meeting that I realized that it is SICB that captures my imagination because of the breadth of its members' interests. As program officer of DEE, I would work to develop symposia and contributed paper sessions that reflect the broad interests of the society. My more

specific goals include: 1) to increase the participation of plant biologists in SICB (DEE is particularly well suited for this), and 2) to encourage interactions between junior and senior researchers (via session scheduling and social functions).

Michele Nishiguchi

Current Position: Assistant Professor, Department of Biology, New Mexico State University

Education: BS Biochemistry/Theatre, University of California, Davis; MS Marine Biology, University of California, San Diego, Scripps Institute of Oceanography; Ph.D. Biology, University of California, Santa Cruz

Professional Experience: Assistant Professor, Biology, New Mexico State University, 1999–present; Postdoctoral Research Scientist, Department of Earth and Space Sciences, University of California, Los Angeles, 1998–1999; National Science Foundation Postdoctoral Fellow, University of Hawaii and University of Southern California, 1994–1998; Teaching staff, National Science Foundation course in "Adaptations to Extreme Environments", US McMurdo Station, Antarctica, 1994; Instructor, University of California, Santa Cruz, Department of Environmental Sciences (2 quarters), 1991–1992; Teaching assistant, Office of Naval Research course in "Molecular tools for marine organismal biology", University of Southern California Catalina Marine Station, 1990–1991; Instructor, Northfield Mt. Herman School in "Tropical marine biology", Cayman Islands, British West Indies, 1991.

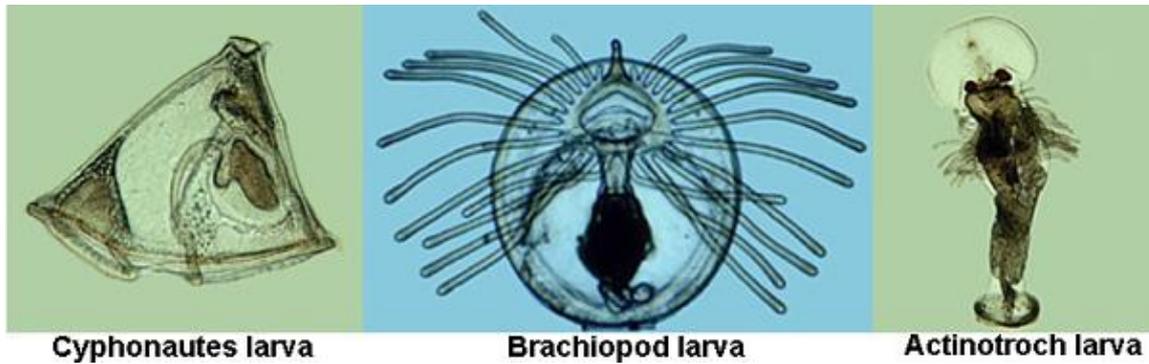
SICB Activities: Member since 1989.

Other Memberships: American Association for the Advancement of Science, American Malacological Union, American Society of Microbiology, Sigma Xi, Society for the Study of Evolution, Society of Systematic Biologists

Research Interests: Primary research interests include: examining the mechanisms and evolutionary processes that are fundamental for establishing how bacteria effect the population structure, life history, and molecular specificity in symbiotic associations; how certain symbiotic systems can be used to examine the mechanisms of infection and pathogenicity between animals and bacteria and evolution of those systems from benign conditions; population dynamics of environmentally transmitted bacterial symbionts; co-speciation between sepiolid squids and their luminescent bacteria; comparative developmental evolution of bacteriogenic light organs in cephalopods.

Goals Statement: The goals that I have for fulfilling the DPO position for SICB would be as follows. I have recently regained my activity in SICB and the annual meetings this past year since I have found that the integration between many disciplines has been important for understanding entire processes and patterns that are the basis for an evolutionary framework. Because I find that incorporating a wide variety of disciplines (cell, developmental, molecular, ecology, evolution) has been fundamental for my own research, I plan to incorporate symposia that combine a wide variety of approaches that integrate a number of these disciplines as well as other areas that are not normally represented at the SICB meetings. This larger approach to broadening the scope of research areas presented at the SICB meetings will bring the society's name of "Integrative and Comparative Biology" to a more meaningful and insightful forum for scientists to collaborate and create more integrated areas of investigative research.

Division of Invertebrate Zoology (DIZ): 2002 Spring Newsletter



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](#)
- [In Memoriam: Dr. Ralph Morris Buchsbaum](#)
- [Minutes of the 2002 Annual Business Meeting](#)
- [Elections: Program Officer Candidate CVs and Statement of Goals](#)

Message from the Chair

Rachel Ann Merz

Greetings All,

The national meeting held this year in sunny Anaheim, CA was terrific – the attendance figures nearly tied last year's record; the symposia, oral sessions and posters were very satisfying and as I talked with folks throughout the meeting people were happy with what they were learning about Biology and with how well the layout of the hotel facilitated the meeting. The program officer team of John Pearse (now the past SICB PO) and Stacia Sower (the new SICB PO) are to be congratulated.

In our DIZ business meeting the main issue that I brought to the membership was a suggestion to modify our division bylaws so that if a Division officer is unable to complete his or her term of office that we have a replacement procedure. I suggest that we use the Society's bylaws as our model. Therefore, if the Secretary or Program Officer were unable to serve, then the Division Chair, in consultation with the DIZ executive committee and the President of the Society, would be enabled to appoint someone until an election could occur. If the Division Chair position needed to be filled, then the DIZ Executive Committee, in consultation with the President of the Society, would be charged with appointing an interim Chair. I am eager to hear any feedback from you about this issue. The plan is for a draft of the proposed addition to our bylaws to be published in the Fall newsletter so that the matter can be voted on at the DIZ business meeting in Toronto.

Other division news is that Penny Barnes has been elected as our new Program Officer. The electronic voting procedure was used for the first time this fall and there was about an order of magnitude increase in the number of votes cast. Thanks to both Penny and Sid Bosch for their willingness to run –the division is really lucky to have such qualified and helpful candidates. I encourage you to contact Penny with ideas or suggestions for symposia for the New Orleans meeting in 2004.

Another change in the DIZ personnel is that Shea Tuberty, our representative to the Student/Post Doctoral Affairs Committee is stepping down after 4 years in office. Shea has done outstanding service for the division by helping to arrange the graduate student lunches, panels on careers and by helping DIZ reach out to new members to join us at our business meeting and division social. The chair of the SPDAC, Kevin Kelley recently wrote to me, "Shea Tuberty, was an absolutely fantastic DIZ representative. He really cared about his job and he put in more effort than any SPDAC member I have worked with." We should all thank Shea for this real contribution to the long-term success of the division and society. One last very thoughtful thing that Shea did was to talk up his position so well at the meeting that several folks were willing to serve. I thank all that expressed interest and I especially thank Ben Miner for taking on the job as our new representative to the SPDAC.

This will be my last year as Chair of DIZ and so I have asked Kevin Eckelbarger, Richard Emlet and Sonke Johnsen to serve as a nominating committee. They have willingly agreed to take on this important task. I thank them and I urge you to learn about the candidates and vote when the ballot arrives.

Message from the Secretary

Will Jaeckle

Hello all. It was delightful to see such a large number of invertebrate zoologists at our society's annual meeting in Anaheim. By all accounts, the meeting was a success and our membership was well represented by oral and poster presentations and symposia (see Program Officer Penny Barnes' Message).

Please note that Rachel Merz's tenure as Chair of DIZ will end at the 2003 meeting in Toronto. The Nominating Committee she assembled (Drs. Kevin Eckelbarger, Richard Emlet, and Sönke Johnson) are to be congratulated for convincing Jon Norenburg and Tom Wolcott to be candidates. Please read the Candidate's CVs and Statements in this Newsletter and vote when you receive the election ballot in the mail.

I would also like to remind our student members of the existence of SICB's Grants in Aid of Research Program. This year four DIZ proposals received funding. Congratulations to Ben Miner ("Developmental mechanisms of phenotypic plasticity in echinoid larvae"), Matthew Hooze ("Phylogenetic relationships of the *Aceola* inferred from 18S rDNA sequences"), Melissa Coates ("Measuring the visual information seen by the jellyfish *Tripedalia cystophora* in its native habitat"), and Tanya Koropatnick ("Identifying chemotactic factors involved in the symbiont-induced hemocyte migration in the light organ of the squid *Euprymna scolopes*")!

I encourage/implore contributions to the lapsed "Great Invertebrate Zoologists" series. Now, before the field season begins, is the time to begin to write the history of your favorite invertebrate zoologist and his/her contributions to our science. Please contact me if you wish to contribute to this series.

A final request — With the guidance of the SICB Webmaster I am going to attempt to compile a list of web sites that advertise courses, internships, fellowships, and granting opportunities for undergraduate and graduate students that will be part of DIZ's section of the SICB webpage. This strikes me as an opportunity for DIZ to promote our science programs and provide a service for our current and future student members. If you wish to have your course, program etc. included, please send the title and website address to me.

Message from the Program Officer

Penny Barnes

I was not able to attend the SICB Annual Meeting in Anaheim, but all reports indicate that the meeting proved to be a successful and productive start to 2002. The Division of Invertebrate Zoology was well represented at the meeting, with 51 oral presentations and 23 poster presentations. We also sponsored or co-sponsored 4 symposia: "Physiological Ecology of Rocky Intertidal Organisms: from Molecules to Ecosystems", "New Perspectives on the Origin of Metazoan Complexity", "Retirement Symposium in Honor of Russel L. Zimmer", and "Integrative Approaches to Biogeography: Patterns and Processes on Land and in the Sea". Well done!

With the closing of the Anaheim meeting, I began my three-year term as Divisional Program Officer (DPO). I anticipate that the next three years will be exciting and rewarding, and I look forward to being of service to the DIZ and the SICB. The responsibilities of the DPO include assisting in the organization of the scientific program for the annual meetings and working with the other DPOs, and the SICB PO, in planning interdivisional programs and the Annual Meeting. Inherent in my position as DPO is the responsibility of ensuring that DIZ showcases its science. To carry out my responsibilities with maximal success, I need to receive input from the members of DIZ; the more input I receive, the better I can truly represent the Division in regard to the scientific program. General comments, relating to the format and schedule of the Annual Meeting, and more specific suggestions concerning potential symposia are welcome. As always, the participation of the membership is essential for the Society's officers to make informed choices and I encourage you to send any comments or suggestions to me via email (barnesp@naos.si.edu).

As you all know, the tragic loss of DIZ's former Program Officer, Dr. Larry McEdward, was an enormous blow to the Division. Unfortunately, there will be no DIZ-sponsored symposia at the upcoming SICB Annual Meeting in Toronto, although there is a possibility that we may be able to assist as a co-sponsor (see sicb.org for a list of the symposia scheduled for Toronto). Now is the time to be thinking of ideas for symposia for the New Orleans meeting! The deadline for submission for proposed symposia will be August 15th, 2002 but it is not too soon to bring your ideas to my attention! I have already received material on one suggested symposium and I look forward to receiving many more over the next few months. You will find information on how to plan and organize a symposium, for the New Orleans meeting, on the SICB webpage (sicb.org). Assisting with the development of symposia proposals is part of the Program Officer's job and, if you have any questions regarding how to develop your proposal, please do not hesitate to contact me. In addition, once a symposium proposal has been accepted by the Society, the Program Officer can assist with requests for funding as required. Remember, registration is reimbursed to symposium participants when the symposium organizer(s) have applied for outside funding, regardless of the success of the funding proposal.

Message from the Graduate Student–Postdoctoral Affairs Committee

Ben Miner

Hello fellow students. The Anaheim 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 Stacey Combes, Jonathan Cohen, and James Strother for winning best student presentation, the Adrian Wenner Strong Inference Award, and best student poster, respectively. I encourage all undergraduate, graduate, and recently post–graduate (< 1 year) students to enter these competitions in 2003.

It appears that SICB has started a trend to alternate between very warm and very cold meeting locations. This year continues that trend with our annual meeting in Toronto, Ontario, January 4–8 2003. To ensure SICB continues to consider the needs of graduate students, I am interested in suggestions for improving future meetings. Please email suggestions to me at miner@zoo.ufl.edu. I will soon be soliciting DIZ student members for their evaluation of the 2002 Anaheim meeting.

Good luck with your studies and research!

Message from the Student Awards Committee Chair

Sara Lindsay

Thank you to all of the judges for the Best Student Paper competition, especially those who volunteered on the spot at Anaheim. Seventeen students vied for the Best Student Paper (oral presentation) award and 6 students competed for the Best Student Poster award. The judges were impressed by all presenters and presentations, and we look forward to hearing from these and more students at future meetings. Stacey Combes from the University of Washington was awarded first place for her oral presentation "Dynamic bending in insect wings: origins and consequences of structural complexity". Jonathan Cohen, Duke University, won second place for his talk, "Alteration of the shadow response in a larval crab by ctenophore kairomones". Jonathan's presentation also earned him the Adrian Wenner Strong Inference Award. James Strother from the University of California, Berkeley won first place for his poster presentation, "Computer simulations of larval behavior in wave–driven flow predict settling success in response to soluble cues". Congratulations to all the winners!

In Memoriam: Dr. Ralph Morris Buchsbaum

The Division of Invertebrate Zoology mourns the loss of one of the most influential teachers and researchers of our science. On February 11th, Dr. Ralph Buchsbaum succumbed to heart failure in Pacific Grove,

California. He was 95.

Dr. Buchsbaum is best known for his textbook *Animals without Backbones*, first published in 1938. In this pioneering work, Dr. Buchsbaum used abundant photographs and clear text to reveal to students the structure of invertebrate animals and their nature in the field. This work has been reprinted innumerable times, and the current, third edition (1987) was co-authored with his wife Mildred Buchsbaum, his daughter Vicki Pearse, and his son-in-law John Pearse. These authors further enlarged on *Animals without Backbones* to produce a new book entitled *Living Invertebrates*, also published in 1987. In addition to these invertebrate zoology texts, Dr. Buchsbaum authored or co-authored no less than 14 other books, including *The Lower Animals* (with Lorus and Margery Milne) and others on such diverse subjects as Basic Ecology and Methods of Tissue Culture in vitro, as well as a text for young readers entitled *Balance in Nature*.

Dr. Buchsbaum's microscopical and photographic talents are also preserved in a series of 29 educational films he produced for the Encyclopedia Britannica Education Corporation. Here too, Dr. Buchsbaum's breadth of knowledge is revealed by the range of topics covered in these films, which include titles such as *The Sea*, *The Chick Embryo from Primitive Streak to Hatching*, and *Gene Action*.

Although he was known primarily for his influence in the teaching of invertebrate biology, Dr. Buchsbaum's research was mainly in tissue culture, in which he was an early pioneer. He and his wife were the first to create chimeras between chick fibroblast cells and the green alga *Chlorella* (*Science* 80: 408–409, 1934). In addition, he collaborated closely with Harold Urey and others to develop a method for using oxygen isotope ratios to determine paleotemperatures (*Bull. Geol. Soc. Amer.* 64: 1315–1326, 1953).

In 1952, Dr. Buchsbaum established a small publishing company, The Boxwood Press, initially to publish his laboratory guide. The press has flourished ever since, and became his main occupation after he retired in 1972. Boxwood emphasized biological topics (e.g., *Reproduction of Marine Invertebrates*, *Acmaeidae*, *Spionidae*, *Abalone: Gross and Fine Structure*, *Hydra and the Birth of Experimental Biology*, *Bird Year*, *Elephant Seals*, *Woody Plants in Winter*) as well as natural history treatments (e.g., *Monterey Bay Area: Natural History and Cultural Imprints*, *Año Nuevo*, *A Panama Forest and Shore*). But, again, Dr. Buchsbaum's wide-ranging curiosity shows itself in the diversity of Boxwood titles in history, biography, and other literary areas. The Boxwood Press will be continued by his son.

Dr. Buchsbaum is survived by daughter Vicki Pearse and son Monte Buchsbaum, and three grandsons. His memory, however, is cherished far beyond his immediate family as he was known as a stimulating and innovative teacher and mentor of students at both the University of Chicago and the University of Pittsburgh, and a strong advocate for environmental causes and rational thinking. Through his academic works and his interactions with others, Dr. Buchsbaum will remain a member of our scientific community.

Minutes of the 2002 Annual Business Meeting

Rachel Merz, Chair of the Division of Invertebrate Zoology, opened the divisional business meeting on January 3 2002 in Anaheim, CA. The first order of business was the acceptance, without amendment, of the minutes of the 2001 business meeting as published in the Spring 2001 newsletter.

Chair Merz reported that overall meeting attendance and membership was more-or-less unchanged, but subscriptions to the *American Zoologist* have slowly declined, largely due to the loss of library accounts. She also reported that SICB's Grants in Aid of Research program received a significant increase in monies

available for allocation this year. Through Rachel, SICB–President Marvalee Wake requested member opinions regarding (1) the usage and quality of the SICB webpage and (2) the distribution of paper/poster presentations by topic rather than by divisional affinity. Rachel noted that with the current topic–based assignment system there may be a loss of divisional identity. SICB Program Officer (and DIZ member) John Pearse also noted that our division's presentations are the most "scattered" of the society.

Rachel also reported the results of our most recent divisional election where Penny Barnes was elected as the DIZ Program Officer and thanked the nominating committee (Bill Kier, Damhnait McHugh, and Jan Pechenik) for their work in providing the Division with two excellent candidates. Although Penny Barnes was unable to attend the meeting, the divisional membership was asked to consider organizing symposia for the 2004 meeting in New Orleans.

Mike LaBarbera has stepped down as the Chair of the Libbie Hyman Award committee and Amy Johnson has filled this vacancy. Amy has implemented a web–based application (available on the SICB web page) and both graduate and senior undergraduate students were encouraged to apply for this award.

Sara Lindsay (new Chair of the Student Award Committee) acknowledged and thanked her predecessor (Clay Cook) for his service to the Division. She reported that 17 oral and 6 posters presentations were entered in this year's competition. The total number of entrants this year is slightly greater than for the last meeting - (Chicago). Sara expressed her thanks to the 12 DIZ members who volunteered to serve as judges of the student's presentations.

Secretary Jaeckle thanked Ben Miner and Andreas Heyland for their willingness to supply photographs of Larry McEdward for a "memorial" poster that was displayed during the meeting. He also requested contributions to the "Great Invertebrate Zoologist" series for DIZ's contribution to the Fall Newsletter.

Shea Tuberty, DIZ's representative to the Graduate Student – Postdoctoral Affairs Committee, reported that the "first–timers" orientation meeting and the graduate student / postdoctoral fellow luncheon were both well attended. He noted that he will be leaving this position and DIZ will need to secure a new representative for this all important committee.

Clay Cook (President of AMS) reported on the photomicroscopy contest that occurred during the meeting and summer scholarship program (both sponsored by AMS). Clay also urged our membership to promote the journal "Invertebrate Biology" to our students and colleagues.

Tom Wolcott noted that the attendance of members of the Crustacean Society at SICB meetings has dramatically declined. He encouraged the DIZ membership to encourage these invertebrate zoologists to attend and participate at our annual meetings.

After the tragic death of DIZ's Program Officer Larry McEdward last summer, Rachel has graciously agreed to remain as Chair for an extra year. A Nominating Committee will soon be formed to seek candidates for the position of DIZ Chair. At present, there is no formal policy to replace a DIZ officer who is unable to complete their term of office. Rachel proposed to produce a draft of a DIZ "policy for replacement" that will parallel the Society's by–laws covering this subject. This draft will be sent to all DIZ members and will be discussed at next year's annual business meeting. Sara Lindsay suggested an alternative possibility of a "shared position" between two individuals. Future discussion of this potential by–law change was suggested.

Vicki Pearse (editor, *Invertebrate Biology*) expressed her appreciation to the membership of DIZ for the continued support of this journal.

SICB President Marvalee Wake, Ron Dimock, and Brett Burk (Burk and Associates) were introduced to the Division. President Wake reported an overall SICB membership of 2100–2200 individuals of which ca. 1200 attended the Anaheim meeting. The requested from the DIZ membership suggestions for improving the operation of the meeting and a variety of changes and requests were proposed to make the meeting more "user-friendly".

Elections: Candidates for DIZ Chair

Jon Norenburg

Current Position: Curator/Research Zoologist, Department of Systematic Biology, National Museum of Natural History, Smithsonian Institution, Washington, DC 20560–0163; Adjunct Research Faculty, American University, Washington, DC

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

Professional Experience: 1992–present Curator/Research Zoologist, Department of Systematic Biology, 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.

Professional Interests: Evolution and diversification of the phylum Nemertea, through use of phylogenetic systematics to integrate and organize studies of comparative morphology (histochemical, histological and ultrastructural), life–history attributes, and molecular sequence data. Current projects include a phylum–level phylogeny based on morphology and sequence data from five gene fragments of 100 species of nemerteans; 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 three. Program Officer, Division Invertebrate Zoology ('93–'96); Program Officer, Division of Systematic and Evolutionary Biology; member, SICB Program Advisory Committee; Chair ('92) 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 (elected 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 International Conference on Nemertean Biology," Asilomar, CA 1995.

Statement of Goals: I was a strong advocate of trying the current format of "integrated" or topic-based sessions at the annual meetings. As a former program officer for two divisions I still organized sessions based on abstracts submitted to a division. I felt the frustration of wishing to promote the disciplines most strongly represented by those divisions while also seeing the utility of integrating at least some of the submitted presentations with their counterparts in other divisions. I also learned that you can't please everyone all of the time, including myself. The current meeting format still is in a major paradigm shift. I want to see the program remain flexible and creative but I am not a candidate for program officer. One of my goals as DIZ Chairperson would be advocating greater use and integration of the divisional program officers in planning and executing meeting programs. The DIZ continues to be the primary or secondary professional societal affiliation for many invertebrate zoologists. This is not odd to most of us, even if other divisions and societies seem to be more focused by taxon or discipline. Our division has always been a leader in integration. It nurtured my eclectic interests as a student and continues to do that for many of us. I will advocate maintaining a strong division structure as a counter-balance to integration, so that it is the utilitarian effect of integrating the annual meeting that is the goal, not integration for its own sake. Promoting excellence in our science is the obvious goal of DIZ and SICB but my primary guide would be its 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. I will not claim to be able to do this by myself. Don't vote for me if you are not ready to participate, at least by being responsive.

Thomas G. Wolcott

Current position: Professor, Marine Earth & Atmospheric Sciences, NC State University

Education: B.A. (Zoology). 1966. University of California, Riverside; Ph.D. (Zoology). 1971. University of California, Berkeley

Professional experience: 1971–72 Lecturer, Univ. of California, Riverside; 1972–78 Assistant Professor, Zoology, North Carolina State Univ.; 1978–85 Associate Professor, Marine Earth & Atmospheric Sciences, NC State Univ.; 1985– Professor, Marine Earth & Atmospheric Sciences, NC State Univ.; 1985– Research Associate, Smithsonian Environmental Research Center

SICB activities: Member and presenter at Annual Meetings since late Pleistocene; Secretary, Ecology Division, back in the 80's; SICB Secretary, 1997–2000

Other memberships: Crustacean Society, ASLO, AGU, AAAS (Fellow), Bermuda Biological Station for Research, Inc. (Corporation Member)

Research interests: Physiological/behavioral ecology, mostly of crabs. Development of biotelemetry systems and field instrumentation for situations where organisms or microhabitats cannot be observed directly. Biological-physical interactions in plankton, using a "behaving" drifter to simulate vertical migration of larvae or dinoflagellates.

Statement of goals: The chair of DIZ has a semi-bully pulpit from which to proclaim the revelations awaiting those who branch out from that popular, but minor, group possessing notochords. I would hope to foster greater participation in SICB and DIZ by graduate students (especially new ones), so that the dazzling variety of model systems afforded by the invertebrates may be better utilized to address questions relevant to all taxa. I also intend to continue courting allied taxonomically-specialized societies to participate actively in our meetings, in the hope that we all will synergize each other's learning. It is my conviction that SICB's

greatest strength is its ability to foster cross-fertilization among subdisciplines. As we develop such interactions, we each must explain to the other why what we do is interesting. In so doing, we are brought to see more clearly what's really important in our own work. I will encourage DIZ members to continue developing symposia that can be co-sponsored by a broad variety of other Divisions, to continue demonstrating just how fascinating, varied, bizarre, cool and just plain useful the invertebrates (and invertebrate biologists) are.

Division of Neurobiology (DNB): 2002 Spring Newsletter

In this newsletter:

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

Message from the Chair

Don Edwards

I would like to begin by thanking Robin Cooper and Rich Satterlie for outstanding service to the Society and the Division. Robin has been on the mark in organizing elections and in keeping me abreast of deadlines. Rich has put together an outstanding Symposium series that has greatly impressed the SICB administration, and which, with our help, should help the Division to grow significantly. He is due a round of congratulations.

Second, I wish to congratulate Rich and Hank Trapido–Rosenthal for their election as Program Officer and Secretary of the Division, respectively. Rich's services will be invaluable in making certain that the series of Symposia that he has organized are successful. And Hank's energy and organizational abilities will stand us in good stead in building the membership.

Finally, I have been in communication with Ed Kravitz, the newly elected President of the International Society for Neuroethology (ISN), about how our organizations might interact to our mutual benefit. As you may know, ISN holds meetings every 3 years; the last was last summer in Bonn, Germany. Given the significant overlap in interests between DNB and ISN, it has seemed reasonable to discuss those interests, particularly in regard to how DNB might serve them in the out–years of ISN meetings. We will have these discussions during the East Coast Nerve Net meeting at the MBL in Woods Hole this Spring; I would appreciate any suggestions you may have that I could present to Ed. In the meantime, please consider the following and tell me what you think:

1. Opportunities for jointly sponsored symposia at SICB
2. Opportunities for jointly sponsored symposia at ISN
3. An opportunity to conduct an ISN business meeting at SICB
4. Cross–linked web sites.

Finally, if you have colleagues who are members of the ISN or the JB Johnson Society, but who are not members of ISN, please discuss with them how what we might do together, and encourage them to join SICB! Let me know what you think (biodhe@langate.gsu.edu).

UPDATE: I met with Ed Kravitz, President of the ISN, and we have agreed to form a Working Committee of officers of the DNB, the ISN, and related societies (e.g., J.B. Johnston Society) to discuss opportunities for cooperation and collaboration. Once again, please provide any suggestions directly to me at biodhe@langate.gsu.edu.

Message from the Program Officer, *Robin L. Cooper* and the Secretary, *Hank Trapido–Rosenthal*

Program Officer Dr. Rich Satterlie reports on the development of two DNB–sponsored symposia for the upcoming Toronto meeting. The first, entitled "Recent Developments in Neurobiology" will honour Dr. Harold Atwood, and will feature a series of presentations on motor control. The second symposium, being organized by Jonathon Copeland, is entitled, "Firefly Flash Communication: Physiology and Behavior at Fifty."

The DNB Poster Awards Committee, under the chairmanship of secretary emeritus Dr. Robin Cooper, has chosen the poster entitled "The control of *Manduca proleg* movements during crawling and grasping", first–authored by Ms. Sheri Mezzoff, from Dr. Barry Trimmer's laboratory, as the recipient of the DNB student poster award for the 2002 meeting. Congratulations!

Division of Systematic and Evolutionary Biology (DSEB): 2002 Spring Newsletter

In this newsletter:

- [Message from the Officers](#)
- [DSEB Business Meeting Discussions](#)

Message from the Officers

Miriam Zelditch, Chair; Donald Swiderski, Program Officer; Ingrid Kaatz, Secretary

We had a very successful meeting, and our annual workshop, "Phylogenetics for Dummies" was well-attended. We are grateful to Diana Lipscomb for presenting a clear and thought-provoking discussion of the complex subject of biogeographic analysis. For next year's meeting in Toronto, we have a very interesting symposium on fish evolution organized by Francesco Santini of the University of Toronto. This symposium brings together often disjoint perspectives on pattern and process at levels ranging from hox genes to regional biogeography. The accompanying "Phylogenetics for Dummies" workshop will examine the problems of defining and recognizing characters, including molecular, morphological and behavioral traits. We also have a proposal for a symposium at the New Orleans meeting in 2004 on the special problems and uses of sequence data, spanning examples such as nucleotide sequences, developmental sequences, and stratigraphic sequences. If you have an idea for 2005, now is a good time to float it past the division program officer.

DSEB Business Meeting Discussions

We began the meeting with reports from the officers. The program officer brought up the new availability of power point slide presentations. We discussed how the cost was so very high and the problems with loading and preparing the files for readiness for the talks. Providing the file of slides to the session chair via email in advance of the meeting would be most helpful. Many of course noted that power point presentations are preferred because we can modify them on our computers in our hotel rooms the day before the talk thus sending them in advance of the meetings cancels this advantage to the speaker. We would need files to be minimally provided to student volunteers at the meeting 30 minutes in advance of the actual talk. The second subject of business from the program officer was a discussion of symposium numbers. We discussed whether there were too many symposia which now overlap with the division topic areas and thus draw attendance away from the regular division presenters. We were concerned that graduate students who present in the divisions lose out the most. We support the offering of symposium topics which conflict directly with each other to be presented at least in different years.

We received a visit from our society president Marvalee Wake and she provided us with good news on finances and also encouraged us to seek out promising new students as recruits to the society. We also

discussed with her the role of the division structure in the society. The divisions function as social cohesive entities for gathering people of common interests. They are also necessary for the proposal of symposia and activities.

The secretary reported on the meetings held on the previous day for society secretaries. Announcements were made for alerting all divisions to the up-coming newsletter where any elections candidates need to be announced. Our division has currently filled all division positions and will not be announcing any elections. Ingrid Kaatz has formally accepted the secretary role for this division from Valerie Capola at this meeting. The most important point raised at the secretary meeting was the mislabeling of our division. We would prefer being the DSEB emphasizing that we employ and teach the society about the tools of comparative biology (hence the "S" for systematics) rather than simply the division for evolutionary biology. We would like to continue to offer workshops on systematic methodology as a society function. Members were also alerted to the new option of on-line voting for officers.

The division chair next presented information from the society chairpersons meeting. Members were alerted to the fact that we can now enhance and add to our website for our division. We decided that we as a division will add in the future our workshop handbook notes on "Phylogenetics for Dummies" for easy reference to all members and for future officers of the division. The question was raised on the repeat of the town meeting events and if they should be on evolution. We discussed that as a division we would like to bring back educational topics on systematics especially for undergraduates. A topic title was proposed called "Tree Thinking". As a division we also discussed that we would like to encourage attendance at the divisional meeting by making it a social event with snacks and drinks. Sitting in a room in rows is much less conducive to meeting individuals in the division. We discussed this last year and interest is building in actualizing this proposed plan.

Division of Vertebrate Morphology (DVM): 2002 Spring Newsletter

In this newsletter:

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

Message from the Chair

Kathleen Smith

I'm sure that all of you who attended the meeting in Anaheim will agree that it was among the best recent meetings. The quality of the symposia and contributed paper sessions was exceptional. DVM was sponsor or co-sponsor of three symposia: Tendon, Bridging the Gap, The Biomechanics of Adhesion and The Energetics and Dynamics of Animal Swimming and Flying. I want to extend thanks on behalf of the division to the symposia organizers and participants. Particular thanks are due to Dave Carrier, who has served as program officer for the past two years.

Bret Tobalske has taken over as program officer and I welcome him to our list of officers. It is never too early to begin thinking about symposia for future meetings, and I encourage you to contact him with ideas. At the 2003 meeting in Toronto, we will be the co-sponsor of a symposium organized by Francesco Santini on "Pattern and Processes in the Evolution of Fishes". We also are participating in the sponsorship of the society wide symposium organized by Joel Kingsolver on "Selection and Evolution of Performance in Nature." I'm sure it will be a great meeting.

This spring, the division will be holding an election for Chair-elect. This individual will serve as Chair-elect starting in January 2003 and then take over as Divisional Chair in 2003. Two excellent candidates, Mark Westneat and Beth Brainerd, have agreed to run for election. I'm grateful to the nominating committee of Ann Pabst (chair), Melina Hale and John Hermanson for their service. Statements from the candidates are below, and procedures for election are elsewhere in this newsletter.

In addition, as we discussed at the business meeting, there is a motion to amend the bylaws. As you recall, we have no provision for replacement of an officer that cannot fill his or her term. In addition, the society is attempting to move all elections to the spring, so that newly elected officers will know of their status long before the annual meeting. A vote on this amendment will be added to the spring ballots. You may find a copy of our bylaws on the SICB web page. I propose amending Bylaw V, Officers as follows:

Old language:

The officers of the Division shall be a Chair, Chair-Elect, Program Officer and Secretary. Election to the office shall be by a plurality vote of a mailed ballot sent to the entire membership at least 45 days before the annual meeting. The outcome of the election will be announced at the annual meeting and in the first Newsletter following the annual meeting.

Proposed new language:

The officers of the Division shall be a Chair, Chair–Elect, Program Officer and Secretary. Election to the office shall be by a plurality vote of a mailed ballot sent to the entire membership in the spring. The outcome of the election will be announced in the next newsletter. If an officer is unable to complete the service of his or her full term, a replacement shall be appointed by the divisional chair, after consultation with the executive committee. An election for this office shall be held at the next normally scheduled election of the division. If necessary, the replacement may be elected to a three–year term to maintain the normal rotation of officers.

The Division is pleased to announce the winner of the Dwight Davis award for "Contributions to the field of vertebrate morphology". First place was awarded to Matt McHenry, University of California, Berkeley for his talk on "A tale of two tails: swimming dynamics in larvae of a colonial and a solitary ascidian." An honorable mention award was given to Jen Dearolf, Cornell University for her work on the "Compartmentalization of the Florida manatee (*Trichechus manatus latirostris*) diaphragm." I wish to extend particular thanks to committee chair, Diane Kelly, who not only organized the judging, but provided excellent guidelines for the candidates. I also thank Jeff Walker, Melina Hale and Bill Hoese, members of the judging committee.

Have a good spring, vote in the election, and plan to attend the Toronto meeting!

—Kathleen

Message from the Program Officer

Bret Tobalske

The overall quality of presentations during the meeting at Anaheim was terrific, so, as newly minted program officer, I encourage you to keep up the good science. I also extend special thanks to Dave Carrier for his recent work as program officer for DVM. It is timely to brainstorm ideas for symposium topics for the meeting to be held in New Orleans in January 2004. Already, I have received one intriguing proposal. This would be for a symposium with the general theme of integrating larval fish development, functional morphology, and ecology. It is good to see that the proposal seeks to invite researchers who would normally not attend our annual meeting. Bringing such people into our midst assures us of exposure to new ideas and technology. For an excellent example of this phenomenon, consider the novel contributions of the fluid dynamicists who participated in the recent symposium at Anaheim: "The Energetics and Dynamics of Animal Swimming and Flying."

Best wishes for a productive year.

—Bret

Message from the Secretary

Audrone Biknevičius

Below are the biographies for our two candidates of Chair–elect.

Candidates for Division Chair–elect

Beth Brainerd

Current Position: Associate Professor of Biology, University of Massachusetts Amherst; e–mail: brainerd@bio.umass.edu; webpage: <http://www.bio.umass.edu/biology/faculty/brainerd.phtml>

Education: Ph.D. 1991: Harvard University; A.B. 1985: Harvard College

Professional Experience: Present: Associate Professor of Biology, UMass Amherst (since 2000); Curator of Fishes, Amphibians and Reptiles, Massachusetts Museum of Natural History, UMass Amherst (since 1998); Director, Organismic and Evolutionary Biology Program, UMass Amherst; 1994–2000: Assistant Professor of Biology, UMass Amherst

Awards and Honors: Junior Fellowship, Harvard University Society of Fellows, 1989–1992; D. Dwight Davis Award, Division of Vertebrate Morphology, American Society of Zoologists, 1990; Lilly Teaching Fellowship, UMass Amherst, 1996–1997; CAREER Award, National Science Foundation, 1999–2004.

SICB Activities – Relevant Service to Societies: 2001–present: Chair, SICB Membership Diversity Committee; 2001–present: Editorial Board Member, *Physiological and Biochemical Zoology*; 1998: Chair, DVM Nominating Committee; 1997: Local Committee Chair, Northeast Regional DVM Meeting; 1997–1999 Student Support Committee; 1996–1998: Associate Editor, *American Zoologist*.

Publications: 26 original research publications; 5 reviews.

Other Memberships: American Physiological Society; American Society of Ichthyologists and Herpetologists; International Society of Vertebrate Morphology; Sigma Xi; Society for Experimental Biology; Society for the Study of Evolution; Society of Vertebrate Paleontology.

Research Interests: Functional morphology, comparative physiology and evolution of respiratory systems; morphology and biomechanics of segmented musculature.

Brief Statement on Goals as DVM Chair: This is an exciting time to be a vertebrate morphologist. New imaging techniques such as high–resolution CT scanning, magnetic resonance imaging, and laser scanning confocal microscopy are opening up vast worlds of cross–sectional and 3–dimensional anatomy. In developmental biology, morphology is now in the process of retaking its proper place at the center of work in this field as whole–mount immuno–staining and transgenics are making it possible to see gene expression *in situ* and even *in vivo*. In systematics, the morphological/molecular wars are finally settling down and people are getting down to the business of assembling the best total evidence phylogenies with the help of continuing developments in phylogenetic methods, data base management and bioinformatics. In vertebrate paleontology, CT scanning is dramatically increasing the amount and quality of morphological data that can be recovered from fossils and the extant phylogenetic bracket method for reconstructing soft tissue anatomy has spurred new interest in the comparative anatomy and physiology of extant vertebrates. In biomechanics, new tools for micrometry, force measurement, 3–D flow visualization, 3–D motion capture, mathematical modeling and microelectromechanical systems are providing ever more sophisticated understandings of the interactions between morphology and environment. My goal as DVM Chair would be to ensure that these exciting new

perspectives on morphology are represented at our annual meetings and that we maximize our opportunities to interact with colleagues in related fields.

Mark W. Westneat

Current Position: Associate Curator of Zoology, Field Museum of Natural History, Chicago, Illinois; Telephone: (312) 665-7734; Fax: (312) 665-7391; e-mail: mwestneat@fmnh.org; webpage: http://fm1.fmnh.org/aa/staff_page.cgi?staff=westneat

Education: Ph.D. 1990: Department of Zoology, Duke University (with Steve Wainwright and John Lundberg). Bachelor of Arts 1984: Biology with Honors, cum laude. The College of Wooster, OH.

Professional Experience: Present: Associate Curator of Zoology, Field Museum of Natural History. Adjunct, Department of Organismal Biology and Anatomy, University of Chicago. Adjunct, Committee on Evolutionary Biology, University of Chicago. 1992-1997: Assistant Curator of Zoology, Field Museum of Natural History. 1991: Postdoctoral Research Associate: Department of Zoology, Duke University. 1990: Postdoctoral Research Associate: Department of Psychology, Duke University.

Awards and Honors: 1993: Nomination by American Association of Museums for the NSF Alan T. Waterman Award. 1990: D. Dwight Davis Award for Best Paper in Vertebrate Morphology: Division of Vertebrate Morphology, American Society of Zoologists. 1989: Cocos Foundation Training Grant in Morphology. Duke University. 1988: Raney Award in Ichthyology, American Society of Ichthyologists and Herpetologists. 1987: Stoye Award for Best Student Paper in Genetics, Development, and Morphology: American Society of Ichthyologists and Herpetologists.

SICB Activities – Relevant Service to Societies:

Nominating Committee, Division of Vertebrate Morphology (1998-99); D. Dwight Davis Award for Best Paper in Vertebrate Morphology (1990); Society of Systematic Biologists Executive Council (2000-04); Associate Editorship, Systematic Biology (1998-2001)

Publications: 48

Other Memberships: American Association for the Advancement of Science; American Society of Ichthyologists and Herpetologists; Pacific Ocean Research Foundation; Sigma Xi: The Scientific Research Society; Society of Systematic Biologists

Research Interests: 1. Phylogenetic systematics and evolution of tropical marine fishes: molecular evolution, evolutionary biomechanics, and phylogeny of the families Labridae and Scaridae.
2. Biomechanics and physiology of vertebrates: behavior, muscle physiology and neuromotor patterns of feeding and locomotion.
3. Modeling of vertebrate musculoskeletal systems: mechanical design and computer modeling in vertebrate biomechanics.

Brief Statement on Goals as DVM Chair: It is an honor to be nominated for DVM Chair! If I am elected I will try really hard not to bankrupt the Division, allow all the biomechanics sessions to be scheduled at the same time, or allow George and his lab to give more than 5 talks in any one day. In addition, I will try to do as well as my predecessors in maintaining the SICB meetings as the best place in the world to come and talk

about vertebrate morphology, function and evolution. We should be active in recruiting new student members, organizing timely symposia, and fostering the cross-divisional sessions and symposia that have been so interesting over the past years. In particular, I would like to see sessions and symposia that integrate DVM core topics with advances in phylogenetic analysis. Finally, I enjoyed helping to organize the DVM party at the Field Museum during the Chicago meetings and I think social occasions can be a great place to talk science at our meeting. So lets do something like that for Toronto and New Orleans!