

SOCIETY FOR INTEGRATIVE & COMPARATIVE BIOLOGY
Executive Committee Meeting Minutes
3 and 7 January 2009
Westin Boston Waterfront Hotel
Boston, Massachusetts

Executive Committee Members Present, 3 Jan 2009:

President – John Pearse
President-Elect – Richard Satterlie
Past President – Sally Woodin
Secretary – Lou Burnett
Program Officer – Eduardo Rosa-Molinar
Past Program Officer – Linda Walters
Treasurer – Ron Dimock
Member-at-Large – John Long, not present
Member-at-Large – Rachel Merz
Member-at-Large – Jackie Webb

Divisional Chairs

DAB – Tom Hahn
DCB – Robert Full
DCE – Stacia Sower
DCPB – Joe Williams
DDCB – Karen Crawford
DEDB – Linda Holland
DEE – George Bakken
DIZ – Janice Voltzow
DNB – James Murray
DSEB – Anne Maglia
DVM – Kurt Schwenk
Editor-in-Chief, ICB – Harold Heatwole
Student Postdoctoral Affairs Committee Chair – Larry Riley
Educational Council Chair – Robin Cooper
Executive Director (*ex officio*) – Brett Burk

Others present:

Ruedi Birenheide – SICB Webmaster
Tim Burt - BAI
Peter deFur - Chair, Public Affairs Committee
Cathy Kennedy - Oxford University Press
Michele Nishiguchi – Chair-Elect, DEE
Dianna Padilla – Chair-Elect, DIZ
Bob Podolsky – Incoming Chair, Educational Council
Bob Roer – Incoming Treasurer-Elect
Brian Tsukimura – Incoming Program Officer-Elect
Mark Westneat – Chair-Elect, DVM

1. **Call to Order.** The meeting was called to order at 2:30 p.m. by President John Pearse. President Pearse welcomed and introduced members of the Executive Committee and guests.
2. **Approval of minutes of the 2008 Executive Committee Meeting**
The minutes of the 2008 Executive Committee meetings were approved as submitted.
3. **Officer Reports.**
 - a. Program Officer – Ed Rosa-Molinar (**Program Officer Report, Appendix 1**)
 1. The highlights of the meeting schedule for the week were reviewed.
 2. Late-breaking symposium status and funding were discussed.
 3. A meeting registration report was presented by Brett Burk.
 - b. Secretary – Lou Burnett (**Secretary Report, Appendix 2a and 2b**)
 1. SICB web site – a report on web statistics was presented by SICB Webmaster Ruedi Birenheide (Appendix 2b).
 2. Members were reminded to refer to the SICB calendar (go to Resources > Calendar; <http://www.sicb.org/resources/calendar.php3>) for important SICB events throughout the year.
 3. The newsletter schedule for 2009 was announced.
 - a. Spring 2009
 1. Mar 4 - submission due
 2. Mar 27 - review on-line draft
 3. Apr 7 - corrections due
 4. Apr 13 - newsletter goes on-line
 - b. Fall 2009
 1. Oct 9 - submission due
 2. Oct 28 - review on-line draft
 3. Nov 4 - corrections due
 4. Nov 10 - newsletter goes online
 4. Election procedures were highlighted.
 5. Reporting procedures for the Divisional Best Student Paper awards have been modified as announced last fall. These procedures were reviewed.
 6. The SICB Constitution and Bylaws revisions were approved last spring. In the spring of 2009 most divisions will propose bylaws revisions; many of these revisions were published in the fall 2008 newsletter.
 7. A SICB member survey is being developed to poll members on a variety of topics. The Executive Committee will continue to receive updates on the survey and provide input.
 - c. Treasurer – Ron Dimock (**Treasurer Report (Appendix 3a, 3b, and 3c)**)
 1. An annual report was presented. (Appendix 3a)
 2. An executive summary of investments was presented (Appendix 3b contains a letter and report from Matthew Tederick addressed to Treasurer Ron Dimock and Executive Director Brett Burk that summarizes the current state of the SICB investments).
 3. A proposed budget for 2010 was presented (see Appendix 3c for budget summary).

4. A motion on a modification of the contract between the SICB and Burk & Associates, Inc., the SICB management firm was proposed by the Finance Committee, chaired by Treasurer Ron Dimock.

Motion 1 from the Finance Committee – requires no second.

That in order to update the original contract with Burk & Associates, Inc, that projected their annual fee based on an anticipated attendance of approximately 1100 members at the annual meeting, to reflect trends of recent years, SICB agrees to provide a supplement to BAI of \$12 per attendee above a threshold of 1350 registrants.

The motion was approved by acclamation.

5. Several motions were proposed by the Finance Committee on the administration of endowed funds.

Motion 2 from the Finance Committee – requires no second.

That the current policy of using 4% of the trailing 5 year average balance of the Mangum Endowment and the GIAR Endowment for the general budget be extended to include the Unrestricted Funds Endowment and the Symposium Fund Endowment.

Motion 3 from the Finance Committee – requires no second.

That those Divisions that are responsible for administering special awards, prizes or activities such as the Wenner Award, Libbie Hyman scholarship, Bartholomew Award, and the Davis Award, follow the guideline of using a maximum of 4% of the average 5 year mean for the respective endowments that support those awards.

Motion 4 from the Finance Committee – requires no second.

All Society-wide endowment funds, including the John A. Moore Lectureship Fund and the Dorothy M. Skinner Award Fund, shall follow the policy adopted by the SICB in January 2008 governing named funds.

These motions were considered in toto and approved by acclamation.

6. An annual evaluation of Burk & Associates, Inc. by the Executive Committee will be conducted using an electronic survey mechanism.

4. Special Report.

- a. Bill Zamer, director of Emerging Frontiers, Directorate for Biological Sciences of the National Science Foundation made a presentation on the “Future of Integrative Organismal Biology.” The content of his presentation appears in **Appendix 4**. There was discussion about how integrative organismal biology can become more prominent at funding agencies. Members were asked to discuss this topic with SICB members during the meeting and report back to the Executive Committee at its second meeting on a course of action that the SICB might take. This is to be taken up at the second meeting of the Executive Committee on 7 January 2009 under the heading of Grand Challenges in Organismal Biology.

5. Committee Reports.

- a. **Journal, ICB – Heatwole (Editor Report, Appendix 5a)**
 1. The editor summarized the activities of the journal over the past year.
 2. The members considered several appointments to the ICB Editorial Board. The c.v.’s of the nominees had been distributed earlier.

Motion. Williams moved (Sower seconded) to approve the three

appointments.

The motion was approved by acclamation.

The approved appointments were as follows.

- a. International members
 1. Maria Byrne (01/2009 – 01/2013)
 2. Guy Charmantier (01/2009 – 01/2011)
- b. Divisional representative
 1. DSEB – Richard Mooi (01/2009 – 01/2014)
3. **Journal review.** It was announced that the ICB will undergo a review from a special committee appointed by President Pearse. The committee will be chaired by Chuck Booth and members of the committee include Rick Blob, Linda Walters, John Wingfield, Sally Woodin. The committee is charged with the following.
 - a. Evaluate how the editorial office and production staff work together to produce the journal in an efficient and timely manner.
 - b. Evaluate how the editor works with the editorial board to maintain sound editorial policies and selection of material to publish; that is, if the editorial board is utilized effectively?
 - c. Evaluate how the editor works with the society program officer and symposium organizers to assure smooth handling of the symposium manuscripts (including submittal deadlines, pages limits, figure preparation and charges).
 - d. Evaluate how well the manuscripts are reviewed, and how the editor works with reviewers.
 - e. Evaluate how well the production staff produces the publications, both on-line and print.
 - f. Evaluate how Oxford University Press promotes the journal to maximize exposure and income.
 - g. Evaluate how *ICB* is viewed by our members and colleagues (including with respect to impact factor and PubMed).
 - h. Evaluate the financial health of the journal and its prospects over the intermediate future (e.g., five years).
 - i. Evaluate how well Burk Inc. and Oxford University Press work together with respect to managing the financial affairs of *ICB*, and sharing the costs and profits with SICB.
 - j. Recommend to the Executive Committee what actions should be taken based on the above evaluations, in time to be considered at the 2010 annual meeting.
4. **Publisher Report.** Kathy Kennedy, Oxford University Press, gave a brief report from the publisher.
- b. **Standing Committee Reports (order as listed in the SICB Bylaws) (Appendix 6)**
 1. Advisory – John Pearse; no report.
 2. Educational Council – Robin Cooper (**Appendix 6a**). Bob Podolsky, the incoming Educational Council Chair, reported on a AAAS/HHMI meeting on undergraduate education in Washington, D.C. that he attended with Satterlie

and Dimock. Podolsky invited members to bring to him ideas on educational issues that his committee might consider.

3. Membership – Sally Woodin; no report.
4. Nominating – Billie Swalla; committee provided a slate of two candidates for the spring 2009 election of a Member-At-Large.
5. Editorial Board, *ICB* – Heatwole (included in Journal Report above)
6. Student/Postdoctoral Affairs – Larry Riley; no report.
7. Student Support – Sherry Tamone; no report.
8. Finance Committee – Ron Dimock (included in Treasurer Report)
9. Public Affairs – Peter deFur (**Appendix 6b**)
10. Program – Rosa-Molinar (included in Program Officer Report)
11. Development – Tom Daniel (**Appendix 6c**)

c. Temporary Committee

1. Broadening Participation – Hernandez; no report
6. **2011 Meeting Site Report.** Brett Burk made a short presentation on the options for the 2011 meeting site. Through a survey in the fall of the Executive Committee and other society officers, three potential meeting sites were identified: Denver, New Orleans, and Salt Lake City. Burk reported that they were not able to obtain a bid for Denver. New Orleans and Salt Lake City offered bids that were reviewed. Burk asked members to discuss the options with SICB members over the next few days and a vote would be taken during the second Executive Committee meeting.

ADJOURNMENT OF FIRST MEETING

Executive Committee Members Present, 7 Jan 2009:

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Program Officer – Eduardo Rosa-Molinar
Past Program Officer – Linda Walters
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Bob Roer – Incoming Treasurer-Elect
Mark Sheridan – Chair-Elect, DCE
Brian Tsukimura – Incoming Program Officer-Elect
Mark Westneat – Chair-Elect, DVM

7. **Divisional Reports. (Appendix 7)**

1. Animal Behavior
2. Comparative Biomechanics
3. Comparative Endocrinology
4. Comparative Physiology & Biochemistry
5. Developmental & Cell Biology
6. Ecology & Evolution
7. Evolutionary Developmental Biology
8. Invertebrate Zoology
9. Neurobiology
10. Systematic & Evolutionary Biology
11. Vertebrate Morphology

8. **New Business**

a. **Proposed policy on Named Events**

Motion.

Williams moved (Dimock seconded) that named events at the annual meeting, including lectures and workshops, must be approved by the SICB Executive Officers and the SICB Program Committee in consultation with the Executive Committee.

The motion was approved by acclamation.

b. **Proposed Policy on Affiliated Societies**

Motion.

Long moved (Murray seconded) that the proposed policy on affiliated societies as stated in **Appendix 8** be approved.

After brief discussion the motion was approved by acclamation.

- c. **2011 Meeting Site** – Three cities for the meeting site were chosen for consideration by the Executive Committee, committee chairs, divisional program officers and secretaries, and incoming officers (49 out of 58 members voting) and the results were reported to the group on Oct 15. The cities selected were Denver, New Orleans, and Salt Lake City. The Denver site was ruled out due to the lack of availability of venues for a meeting of the size of SICB. A number of points were made about aspects of both the Salt Lake City and the New Orleans meeting sites.

1. Salt Lake City

- a. the meeting site is the convention center and the Marriott Hotel
- b. room rates: \$119
- c. the city is a Delta Airlines hub site and relatively easy to get to
- d. across the street from the convention center, which is surrounded by hotels
- e. convention center is downtown within walking distance to downtown amenities
- f. located near a mall with food courts which should have meals priced for students

- g. hotel is paying for the convention center; requires that SICB meets its room block, which is not a problem
- h. Utah in 2005 called evolution a major unifying concept in science and appropriately included the teaching of evolution in its science curriculum

2. New Orleans

- a. the city is very easy to get to
- b. the meeting site is the Hilton next to the convention center near Canal Street
- c. room rates: \$159
- d. hotel is paying for the convention center; requires that SICB meets its room block, which is not a problem
- e. Louisiana passed a state law called the Louisiana Academic Freedom Act; SICB joined AIBS in opposing the passage of the act; the law encourages alternatives to teaching evolution

Additional points for consideration included “green” practices and roll-away availability.

Motion.

Williams moved (Sower seconded) that the SICB establish Salt Lake City as its 2011 annual meeting site.

The motion passed with 18 in favor and 5 opposing.

There was further discussion that the SICB should let officials in the state of Louisiana know of the decision and the reasons for not meeting in New Orleans. A number of mechanisms were discussed including sending a letter to the Governor of Louisiana. This was left to the discretion of the President.

- d. **2012 Meeting Site.** The present options are Charleston, SC and San Juan, Puerto Rico. The Charleston meeting would be in North Charleston at the convention center. The Charleston bid included breakfast with its room rate. The San Juan site would be at the Caribe Hilton. Various questions were asked about the two meetings sites and it was decided to table discussion until further information could be gathered.
- e. **SICB Bylaws Revision** – Proposal to Establish the Committee on Broadening Participation as a standing committee. Article XVI, Section 1 of the SICB Bylaws allows proposed amendments to be generated by the Executive Committee.

Motion.

Woodin moved (Walters seconded) that the following amendment to the SICB Bylaws be placed on the ballot for consideration by the membership.

Section 12. Committee on Broadening Participation: The President shall appoint a Committee consisting of six members, each for a term of three years. The President shall appoint the chair of the Committee. The appointment of members of the Committee shall be ordered so that the term of two members shall expire each year. The Committee shall design and promote activities of the Society to increase the diversity of the membership of the Society and of fields of integrative and comparative biology. The Program Officer, the chair of the Student Postdoctoral Affairs Committee, and the President-Elect shall be *ex officio* members of the Committee.

The motion passed by acclamation.

Secretary Burnett noted that this motion may require adjustments in the language of other sections of the bylaws and that this will be outlined clearly in the spring ballot measure.

- f. **Proposal to establish the Carl Gans Fund** - This motion is in accordance with the newly established policy on named funds approved in January 2008. The background information on this proposal from the Division of Comparative Biomechanics is found in Appendix 9.

Motion from the Finance Committee – requires no second.

The SICB shall establish a fund specifically to support the Carl Gans Award for the purposes of receiving contributions toward the minimum of \$25,000 required to activate an endowment for the award.

Discussion. Full noted that some of the details of the award need to be refined and he is working with the Finance Committee to this end. The purpose of the present motion is to simply establish the fund in order to receive contributions.

The motion was approved by acclamation.

- 9. **2010 Budget.** Treasurer Dimock presented several modifications to the budget from the Finance Committee that was presented on 3 Jan 2009.

- a. **Bart Social.** The George A. Bartholomew Award Social has become a Society-wide function and there is a risk that the social will be underfunded. The recommendation is to add a line item in the budget of \$1,000 to support the social.

This recommendation to the budget was approved by acclamation.

- b. **Committee on Broadening Participation Budget.** The recommendation is to reduce the budget of the Committee on Broadening Participation from the current \$10,000 to \$3,000 to bring it closer in line with the other committee budgets with the caveat that a new committee resulting from the proposed bylaws amendment may request the Finance Committee consider an additional allocation.

This recommendation to the budget was not approved with 7 voting in favor of the recommendation and 10 voting against it.

- c. **Educational Council Budget.** The recommendation is to increase the budget of the Educational Council from \$2,000 to \$3,000.

This recommendation to the budget was approved by acclamation.

Motion from the Finance Committee – requires no second.

Approve the 2010 SICB budget as submitted on 3 Jan 2009 to the Executive Committee and as modified by the two actions above (Appendix 3c).

The motion was approved by acclamation.

- 10. **Grand Challenges in Organismal Biology** – The discussion originating in the first Executive Committee meeting was continued. A draft document titled “Grand Challenges in Organismal Biology” was generated since the Jan 3 meeting and circulated at the SICB Business meeting on 6 Jan 2009 and posted on the home page of the SICB web site. There was general discussion about what kind of document (a “white paper”) should be generated and how it should be generated.

- a. The editorial board of the SICB journal *Integrative and Comparative Biology* decided at its meeting that it is willing to publish a paper written by the SICB President, Past President, and President-Elect on the Grand Challenges.

- b. A conference call including members of the Executive Committee and including divisional chairs rotating off the committee will be scheduled for the week of Jan 12

through 16, 2009. The topic of this conference call will be a discussion of the specific steps the SICB will take in developing a document to be submitted to the NSF.

11. Recognition of Officers – President John Pearse was recognized and thanked for his diligent service to the SICB with a round of applause and a gift.

12. Adjournment – the meeting adjourned at 9:00 a.m.

**Appendix 1 – Program Officer Report
Ed Rosa-Molinar, Program Officer**

TOTAL ABSTRACTS: N= 1336 ABSTRACTS

- poster presentations: n=570
- posters up for 24 hours with approximately: n=190 posters/day
- oral presentations: 765 (107 of these are symposia speakers /4 are special lectures)
- symposia per day on full meeting days: n=3/3/4
- all symposia organizers received first choice of date.
- concurrent contributed paper sessions with 20 minute talks: n=105 sessions
- 71 abstract revisions were submitted between September 10, 2008 and September 18, 2008 (last correction entered into the system)

STUDENT SUPPORT: N= 395 STUDENTS

- 324 student housing support
- 71 student registration support

OPENING/PLENARY SESSION

- Ira Flatow, Host of NPR's Talk of the Nation: Science Friday
Saturday, January 3, 7-8 pm – Grand Ballroom, Concourse Level

WELCOME RECEPTION

- Saturday, January 3, 8-9:30 pm – Harbor Ballroom, Conference Level

SPECIAL LECTURES

- **George A. Bartholomew Award/Lecture - Sunday, January 4, Grand Ballroom A/B - 6:30-7:30 pm**
Lynn (Marty) Martin, University of South Florida,
"Ecological immunology: an adaptationist perspective on the vertebrate immune system"
- **Howard Bern Lecture - Monday, January 5, Grand Ballroom A - 6:30-7:30 pm**
Peter J. Sharp, University of Edinburgh, Scotland
"Vertebrate photoperiodic signaling"
- **AMS Keynote Lecture - Monday, January 5, Grand Ballroom C - 7:00-8:00 pm**
Judith Winston, Virginia Museum of Natural History
"Life in the Colonies - the alien ways of colonial organisms"
- **John A. Moore Lecture - Tuesday, January 6, Harbor Ballroom II/III - 6:30-7:30 pm**
Sean Carroll, University of Wisconsin-Madison
"Into the jungle: great adventures in the search for evolution and what students can learn from them"

Society-wide and regular symposia: n= 10 Symposia

- Number of speakers per symposia: n= 11
- 8 of 8 have applied for external funding, thus registration fees of all speakers reimbursed (8 X 11 = 88 speakers; only will reimburse only \$100.00 from SICB program fund; the SICB Program Officer [PO] found external source of funding to help cover the remaining portion of this years reimbursements)
- 2 of 8 have external support in hand; 6 of 8 is still pending
- 2 of 8 have received NSF funding (range: \$9,600 - \$19,524)
- 8 of 8 have internal funding from divisions
- 8 of 8 have multiple sources of internal funding from divisions
- 8 of 8 will receive \$1000.00 from the SICB PO
- 8 of 8 will have planned extra events (round table discussions, socials, dinners)

Issues that SICB PO and DPO's are working on:

1. Finalize SICB meeting program grid.
2. Late-breaking symposia application has been formalized. Symposium funds will not go to late-breaking symposia. We have one late-breaking symposium in consideration for 2010.
3. Planning to write grant to fund late-breaking symposia. This will allow us to get more prospective symposia.
4. Symposium format vs. contributed session formats.
5. Changes to symposium proposals.
6. The Symposia Enhancement Fund will be used this fiscal year to solve regular symposia cash flow problems. Many symposium organizers have not heard about the SICB NSF funding policy.

Appendix 2a - Secretary Report

Lou Burnett, Secretary

SICB Web Site

The SICB web site has continued to develop after the latest version was launched more than one year ago. The web site is set up to serve as a repository of information generated by divisions and committees. The most recent development was the addition of a shopping cart feature that allows individuals to pay dues, make donations, register for the annual meeting and purchase merchandise.

SICB calendar

The calendar (accessed by Resources tab > Calendar) was updated throughout the year and contains important administrative time points.

Newsletter schedule for 2009

The production of the newsletter has become more efficient with the diligent help of the divisional secretaries. Committee chairs are routinely given the opportunity to submit reports. The 2009 newsletter schedule is shown below.

Spring 2009

Mar 4 - submission due

Mar 27 - review on-line draft

Apr 7 - corrections due

Apr 13 - newsletter goes on-line

Fall 2009

Oct 9 - submission due

Oct 28 - review on-line draft

Nov 4 - corrections due

Nov 10 - newsletter goes online

Election process

All SICB elections occur in the spring. Divisional chairs should appoint nominating committees in the fall prior to the annual meeting. A relatively up-to-date list of divisional and Society-wide candidates now exists on the SICB web site to assist nominating committees in identifying candidates. Go to Resources tab > Elections > Election Candidates for SICB and Divisions.

Divisional Best Student Paper awards

A new mechanism has been added to our web toolbox that allows divisional officers to work with volunteer judges in selecting the papers/posters to judge. Judges are directed to a page where each judge signs up for a set number of papers/posters to evaluate. Judges select from the available papers/posters.

Some new procedures for processing the awards.

1. Divisional chairs should determine the desired wording on the certificates given to the student award winners. This should be done before or during the annual meeting. Chair signatures will be collected to add to the awards.

2. Student award winners must be determined within one week after the end of the annual meeting.
3. Divisional secretaries will send the names and contact information of the student award winners to the Society-wide secretary within one week after the end of the annual meeting.
4. Divisional chairs will contact student award winners notifying them of their award with a copy to the Society-wide secretary.
5. The Society-wide secretary will work with SICB Headquarters to issue certificates and checks to the award winners.
6. The Society-wide secretary will provide Wiley-Blackwell a list of the student winners in order to send each winner a subscription to a Wiley-Blackwell journal. The journals have already been selected by each division.
7. The Society-wide secretary will post the names of the award winners on the SICB web site.

SICB Constitution and Bylaws Revisions & Divisional Bylaws Revisions

The extensive changes to the SICB Constitution and Bylaws were approved last spring. This spring divisions will be revising bylaws. Many revisions have already been posted in the Fall 2008 newsletter. Divisional chairs should pay special attention to make sure divisional bylaws revisions are carefully considered. Chairs should also bring up and discuss substantive changes in the divisional business meetings in Boston.

SICB Member Survey

A survey is being developed to query the SICB membership on a number of issues. The Executive Committee was provided a preview of the survey format and some possible questions. SICB committees will be given the opportunity to develop their own questions on the survey. It is anticipated that the survey will be sent to the membership in the spring or early summer.

Appendix 2b – Secretary Report SICB Website Report – Ruedi Birenheide

Website was expanded and a number of administrative pages (calendars etc) added through 2008 New Secure Payment Page was added in early Fall, following a Shopping Cart Design
Same design as main site: corporate identity
Allows "one-stop" shopping for registration, membership, donations and merchandise
Internally items are divided into separate databases for easy processing

Serious problems with the website were not encountered – the newsletter deadlines are tight and we rely on the divisions to provide their info in a timely manner. We also use the website “away from the public eye” to generate a number of data listings for the meeting and host interactive pages like Sign-ups for Best Student Paper Program Judges or for Working Slots for Student Helpers.

Website Statistics

* over 260,000 visits and 1.1 million pages served in 2008

* between 17,000 and 27,000 visits per month, peaking September to January (ie, approx 700 visits/ day) -- unique visitors are about half that amount

Popular Pages:

- Member Directory, especially member contact info page
- Meeting Schedule Pages incl Abstracts (2009 meeting, but also older meeting pages are among popular choices)
- Home Page
- Job Listings
- Student Section
- Membership

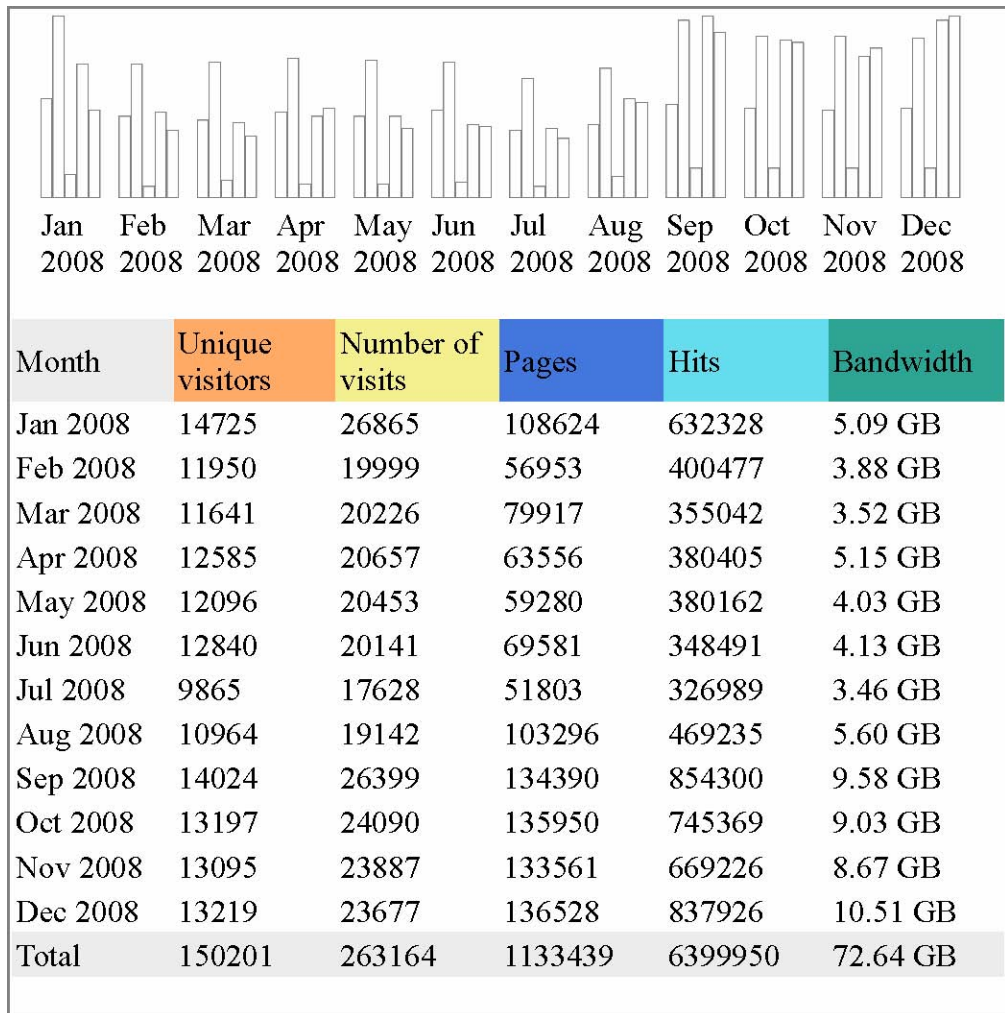
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Resources etc.

Researchers Database is also among the more popular pages.

The Fall 2008 Newsletter (front page) was the most popular among newsletter pages. However, it was visited only 104 times in 2008, individual newsletter messages much less than that (several divisional messages only 30 times or less). The question arises whether this is the best method to disseminate society info to members. Alternatives like blog might be worth considering.

Monthly history



Pages-URL (Top 10) -[Full list](#) -[Entry](#) -[Exit](#)

1166 different pages-url	Viewed	Average size	Entry	Exit	
/ membership/singlemember.php3	19354	7.16 KB	3633	3744	
/ meetings/2009/schedule/results.php3	12120	46.40 KB	121	1172	
/ meetings/2009/schedule/abstractdetails.php3	10140	2.30 KB	634	1371	
/	9636	20.91 KB	5586	1402	
/meetings/2009/schedule/	5326	15.24 KB	194	122	
/ meetings/2009/schedule/sessionresults.php3	4655	13.33 KB	184	313	
/ meetings/2009/schedule/personal/personalscheduleview.php3	4288	19.14 KB	40	172	
/jobs.php3	4132	13.46 KB	1412	1497	
/meetings/2009/index.php3	3727	10.20 KB	792	355	
/meetings/2009/	3644	10.19 KB	904	394	
Others	59506	55.40 KB	10177	13115	

Appendix 3a - Treasurer Report

Ron Dimock, Treasurer

Society not immune to market turmoil

Beginning in 2002 the Society invested a total of \$779, 498 with a professional financial management group under the guidance of Matthew Tederick. On December 31, 2007 that account was worth \$1,160, 976. Unfortunately, as I write this report on 19 December.2008, the portfolio is worth \$819,218. While SICB has lost more than \$300,000 in 12 months, the very good news is that the previous capital gains from 2002 to 2007 enabled the account to remain about \$40,000 in the black relative to the starting point. Another positive note is that Mr. Tederick is holding substantial cash in the account and is poised to take advantage of what will be excellent buying opportunities when the bottom of the market is reached. Historically, the end of bear markets has been accompanied by a very significant 'bounce' as the market begins recovery. We plan to participate in any rapid upturn.

SICB remains fiscally solvent

Although the audited figures for the close of fiscal 2008 (June 30, 2008) do not reflect the past 6 months' decline in market value and other expenses, the Society's total assets at that time were \$1,629,163, significantly less than the corresponding balance at the end of fiscal 2007 (\$1,963,749), but nonetheless reflective of the overall financial health of the Society.

Balanced budget for 2010 to be proposed by Finance Committee

The budget for fiscal 2010, which will be presented today and voted upon on January 7, shows a projected Net Operations Bottom Line of \$17,189. The Finance Committee had assumed a mandate to develop a balanced budget for 2010 which has been accomplished by implementing a number of cost cutting and revenue generating measures. This is the first time in many years that the Society's annual operating budget has been projected to finish in the black

New schedule of registration fees instituted for the 2009 meeting in Boston

Registration for members was increased by \$75 to \$300; however, Loyal members, ones who paid dues for the 3 consecutive previous years, are able to register for \$250. This increase turned out to be especially timely given the tremendous attendance at this meeting in Boston.

Reimbursement of fees for presenting authors in symposia set at \$100

The former system of providing full reimbursement of registration for primary authors of symposium presentations is now limited to \$100. Assuming that all speakers this year are loyal members, with approximately 100 presenters, the Society will save at least \$15,000 by this change. Authors still enjoy an additional subsidy by receiving up to 12 pages in *ICB* with no page charges, a value of \$1620, and the possibility of a \$600 color plate, real expenses that are paid for by the Society.

Budget to get supplement from the Unrestricted Endowment and the Symposium Enhancement Fund

The Finance Committee is proposing to expand the current policy of using 4% of the previous 5 year average balance of the Charlotte Mangum Endowment toward funding Student Support and of the Grants-in Aid-of-Research Endowment for GIAR and FGST expenses to include the Unrestricted Endowment and the Symposium Enhancement Fund. If the Executive Committee approves a formal motion to be presented after this report, approximately \$34,000 from these two funds will be incorporated into the 2010 budget.

Wiley-Blackwell generously underwrites best student paper and poster awards

Wiley-Blackwell publisher has provided \$3300 to fully fund the \$300 per Division allocation for a best student paper and a best student poster award. Furthermore, the publisher will provide a free year's subscription to an appropriate one of their journals to each student winner in every Division. This was an unsolicited offer on the part of Wiley-Blackwell and is very much appreciated.

Other budget highlights

1. Journal income has stabilized
The partnership with Oxford University Press continues to be an excellent relationship for SICB. The net income to the Society for 2010 is projected to be \$166,530, right in line with what was proposed for 2009.
2. Annual meetings increasingly cost-effective
This meeting in Boston was projected to generate about \$24,000 (primarily as a result of a \$50,000 subsidy for audio/visual). However with the marked increase in attendance over recent years, the meeting may be even more solidly in the black. This follows the San Antonio meeting that finished with a net surplus of just over \$32,000.
3. Student support continues to be a hallmark of SICB
In addition to providing \$24,000 for GIAR, \$6000 for FGST and \$300 per Division for Best Student Paper/Poster awards, the Society continues waiving registration or providing heavily subsidized housing to student workers. For Boston there are 71 students getting waiver of registration and 320 receiving housing for their nominal co-pay of \$75 for 4 nights. Additionally, the current total of 736 students registered as either student members or student non-members are receiving an effective subsidy of \$108,832 compared to what it would cost a corresponding number of 'loyal' senior members. Of course no one questions how outstanding this level of participation by students, as well as postdocs, is for the Society at large.

Respectfully submitted,

Ron Dimock, Treasurer

Appendix 3b – Investment Report

DUNN MISTR FEDERICK, LLC

December 16, 2008

Society for Integrative and Comparative Biology
1313 Dolly Madison Blvd.
McLean, VA 22101-3926
Attn: Brett Burk and Ron Dimock

Gentlemen,

At your request, I have enclosed for you my written talking points for our monthly conference call. As I expressed to you verbally, this is a very tumultuous time for the world and in particular, the United States financial markets. Nonetheless, I remain confident that SICB's portfolio is well diversified and properly asset allocated. We also have continued confidence in your account funds and their respective fund managers, so that when the market does become bullish again, I am optimistic that your portfolio will rebound accordingly.

Talking Points for December:

1. October was a historic month. The week ending October 10, 2008 was the worst loss ever (since 1896) on the Dow Jones Industrial Average.
2. November was also a historic month as the top to bottom of the markets (as measured by the S&P 500) fell 52%--the steepest drop since the Depression.
3. All asset classes are down including domestic, foreign, commodities, and precious metals. Even U.S. Treasuries had a negative return in mid-October.
4. We are anticipating that the market could decline further in January when company year end earning reports are announced.
5. Needless to say, securities are extremely cheap, particularly if the time horizon for the portfolio asset has a long-term outlook (five to seven years).
6. For some historical perspective, for markets ending in 1974, 1987, and 2002 the S&P 500 had significant above average losses. In spite of market losses, the S&P 500 annualized returns for the following six years were:

1975-1980 = 17.53%
1988-1993 = 14.89%
2003-2008 = 6.07%
Mid cap and small cap stocks did even better.
7. Financial stocks, as well as, financial mutual funds are hard to evaluate because of opaque balance sheets. Until more transparency occurs, they will continue to be difficult to evaluate accurately.
8. The attached Executive Summary Report shows quarter-to-date, year-to-date, and since-inception returns. SICB's portfolio has been above the S&P 500 benchmark. More importantly, the beta (indication of portfolio risk) of the portfolio is less than that of the S&P 500.

302 WEST BOSCAWEN ST, STE 3B WINCHESTER, VA 22601
OFFICE: 540.535.0505 FAX: 877.547.7430

8200 GREENSBORO DR, STE 900 MCLEAN, VA 22102
OFFICE: 703.677.3131 FAX: 877.547.7430

www.dmtadvisors.com

9. Of particular interest, beyond your normal asset classes (Large Cap Growth, Value, etc.), your portfolio includes:

a. Cash	20.60%
b. Hedged	5.47%
c. Fixed Income	14.90%
d. Commodities	2.75%

For example, normal asset allocation models would warrant a cash position of 5% to 10%. As indicated through numerous of our previous calls, we have held onto an above average allocation in cash in anticipation of a bearish market; however, admittedly, no one truly anticipated the market we have had over the last year.

Furthermore, your portfolio is currently allocated similar to a typical Pension Plan of 60% Equity and 40% Fixed Income. A Growth Portfolio would have less than 15% Fixed Income and Cash. Because we did have concerns about the market when we invested, we have put more money into Fixed Income, Cash, and Hedge than we normally would. However, as we all know, we were stunned by the 25% decline between November 4th and November 20th.

10. Finally, emerging markets are down 53% year to date which is more than U.S. markets (down 41%) or EAFE (down 48%). Even so, emerging markets over the last 10 years have had annualized growth of approximately 7%.

11. **Conclusions:** As we rebalance portfolio, we are considering:

- a. Adding emerging market funds into the portfolio mix in increments;
- b. Increasing commodities in increments to hedge against inflation;
- c. Adding Treasury Inflation Protected Securities, if prices drop. Prices are likely to drop as investors return to markets and withdraw money from Treasuries; and
- d. Selling Third Avenue Value Fund (TAFVX) since the composition has changed from a U.S. mid cap value fund to a world fund. Likely to reposition the assets in one of the options mentioned above.

We are actively monitoring portfolio and have spoken with a number of mutual fund managers in the last month to more clearly determine their thought process as we continue this credit crisis. We truly do appreciate your business and believe that markets will recover over time. Since this is a long term growth portfolio, we are disappointed about the current situation, but firmly believe that equities will rebound. Considering the growth objective of the portfolio, we remain confident that our allocation is appropriate and want to "hold the course" regarding your equity investments to capture the upward swing in the market when it occurs.

Should you need any additional information, please let me know.

Respectfully Yours,



Matthew A. Tederick

Appendix 3c – Budget

Proposed Budget

Revenue	2010 Budget
Administrative	\$172,100.00
Annual Meeting	\$285,290.00
Endowment Fund	\$9,300.00
Journal	\$265,000.00
SICB Membership Contribution	
Grants	\$0.00
Divisional Budget	\$8,300.00
Total Revenue	\$739,990.00
Expenses	
Administrative	\$332,185.96
Annual Meeting	\$241,275.00
Endowment Fund	\$38,050.00
Committees	\$19,590.00
Journal	\$98,470.00
Grants	\$0.00
SICB Memberships	\$4,000.00
Divisional Budget	\$36,750.00
Contingency Fund	\$10,000.00
Total Expense	\$780,320.96
Net Income (Loss) - Current	(\$40,330.96)
Reconciliation of Unrestricted Fund	
Unrestricted Fund support of Operations	\$29,286.90
Symposium Enhancement support of Operations	\$4,350.84
Mangum Fund support of Operations	\$10,910.64
GIAR Fund support of Operations	\$7,221.82
Bartholomew support to Operations	\$4,750.00
Hyman support to Operations	\$1,000.00
Net Operations Bottom Line	\$17,189.24

Approved Budget

Revenue	2010 Budget
Administrative	\$172,100.00
Annual Meeting	\$285,290.00
Endowment Fund	\$9,300.00
Journal	\$265,000.00
SICB Membership Contribution	
Grants	\$0.00
Divisional Budget	\$8,300.00
Total Revenue	\$739,990.00
Expenses	
Administrative	\$332,185.96
Annual Meeting	\$242,275.00
Endowment Fund	\$38,050.00
Committees	\$20,590.00
Journal	\$98,470.00
Grants	\$0.00
SICB Memberships	\$4,000.00
Divisional Budget	\$36,750.00
Contingency Fund	\$10,000.00
Total Expense	\$780,320.96
Net Income (Loss) - Current	(\$42,330.96)
Reconciliation of Unrestricted Fund	
Unrestricted Fund support of Operations	\$29,286.90
Symposium Enhancement support of Operations	\$4,350.84
Mangum Fund support of Operations	\$10,910.64
GIAR Fund support of Operations	\$7,221.82
Bartholomew support to Operations	\$4,750.00
Hyman support to Operations	\$1,000.00
Net Operations Bottom Line	\$15,189.24

Appendix 4 – NSF Presentation

SICB Executive Committee

January 2009, Boston

*Envisioning the Future of Integrative
Organismal Biology*

William E. Zamer

Director, Emerging Frontiers

Directorate for Biological Sciences



What Does the Future of Organismal Biology Look Like?

*NSF/BIO is looking for your leadership to
catalyze discussions on this question*

- Stimulate ongoing discussions among integrative organismal biologists about this question
 - Reach a consensus about a research agenda to significantly advance the science; unique perspective from integrative organismal biologists
- Conceptual and budgetary contexts for your discussions
- Identify infrastructure/training needs to support the agenda
- Identify relevant communities, beyond SICB, to participate
- A suggestion for a way forward
- Mechanisms of support from NSF for these discussions

Conceptual Contexts

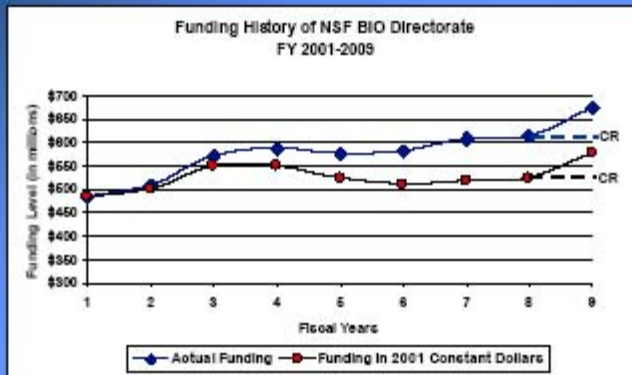
- What major questions in integrative organismal biology could be addressed that will also improve understanding of other areas of science, and biology generally?
 - Identify areas where advances in knowledge about organisms can uniquely and directly inform larger issues of environmental sustainability, novel energy sources or technology, climate change models, environmental adaptation and resilience, principles of regulatory networks, etc.
- Synthesis and computational approaches– make use of the wealth of existing data to increase knowledge, predictive capacity
 - Adoption of systems approaches? Occurring in plant sciences, medical research, others
- What are the long-standing questions that can now be answered because the time is right?

Major Investment Examples

- Synthesis Centers such as iPlant
 - Community-driven grand challenges (GCs)
 - Cyberinfrastructure designed to address GCs
 - existing data/new knowledge, modeling, visualization, integration of diverse data types
 - interdisciplinary; computer & information science
- Focused Solicitations
 - A Tree of Life (AToL)
 - scientific benefit beyond the systematics community



Budgetary Context



Budgetary Context

- Timelines 1—at NSF
 - Revisions to the FY 2009 budget within weeks?
 - Ongoing discussions about FY 2010 budget for next six weeks
 - Initiation of FY 2011 budget planning in April 2009
- Timelines 2—SICB
 - Near-term research priorities from SICB (others?)
 - relevance to new Administration's emerging agenda (slide 3)
 - **move quickly!**
 - Long-term research priorities

Infrastructure and Training Needs

- Be aware of infrastructure needs from the outset
 - Realistic needs mapped to the scientific agenda; invite experts to participate, and advise
 - NSF funds infrastructure routinely; what is available now and what is under development (software, instrumentation, biological resources, databases, etc.)?
- Given a view of what organismal biology will look like in the future, how should the next generation of students be trained?
 - Articulate strengths in present training (broad spectrum of approaches, integrative concepts); education of university administrators
 - Identify needs to build capacity to support your research agenda into the future



Identify Relevant Communities to Participate

- Depends on the biological questions; iterative
- Engage early enough so they are invested
- International expertise and collaboration needed (e.g., SEB)?
- Multidisciplinary expertise needed?
- Researchers who typically apply to USDA, NIH/NIGMS






- ### NSF Support Mechanisms
- Forward-looking symposia
 - Workshops and town-hall meetings
 - Research Coordination Networks (RCNs)

Summary

Unique Role in Advancing Biology

- Unique perspective and expertise of integrative organismal biologists
 - focus the agenda via discussions
 - look for conceptual “sticky ends” to other disciplines
 - societal contribution from scientific advance
 - partner with other communities
 - infrastructure, training
 - budgetary timelines



Persistence, Community Building

The near-term process requires your nimbleness in setting priorities. The long-term process will require 2-3 years of focused effort: community discourse, refinement of ideas, buy-in beyond SICB



**Appendix 5 - Editor Report, *Integrative and Comparative Biology*
Hal Heatwole, Editor *ICB***

Information on 2008 papers: 65 papers, one summary paper (for LBS4) and seven short introductions were published this year; one paper was rejected.

In 2006, 52 papers were published

In 2007, 76 papers were published (14 were Respiration Biology papers)

2008 Journal Statistics (from Manuscript Central “At-A-Glance Statistics”)

Average time (days) from submission to first decision: 40 days

Average reviewer turn around time (days): 19

Average days from submission to final decision on revised paper: 70 days

Average time to assign reviewer (days): 3

Total number of pages published in Volume 48: 876 (12 pages over budget)

ICB Papers published:

Number of Authors: 204

Nationality of authors:

Australia/4; Belgium/6; Brazil/2; Canada/7; Chili/1; Finland/1; Germany/11; Greece/1; Italy/2 ;Japan/3; Netherlands/1; New Zealand/1; Portugal/2; Switzerland/1; UK/6; US/155

Information from Karol Halbirt, Production Editor: manuscripts appear on Advance Access approximately 5.3 weeks from receipt of final materials

2009 papers: Deadline January 31, 2009 (to be considered for one free colored figure)

Announce the latest color figure policy: no cost for colored figures online. Only one colored figure, or composite colored figure, in the printed hardcopy of the journal will be free of charge and then only if it meets certain criteria.

109 papers will be presented in regular symposia

General Discussion

Associate members of the editorial board

Should distinguished speakers be invited to submit short papers for publication? (from conference calls)

Appendix 6a – Educational Council Report

Robin Cooper, Chair, Educational Council

Abstract of Activities:

For the 2007-08 meeting we held a lunch session with SICB members that were interested in educational outreach and the digital library. Mostly the discussions focused on the topic of digital information and how to get SICB members to submit their works into the data base.

The new SICB www site now highlights that digital library in a more accessible manner for visibility.

Last year, as for the past four years, we hosted local high school students to attend and present their posters at SICB. These students are ones involved with the local INTEL affiliated Science Fair. The idea behind getting these students involved was the hope that they join SICB when attending college and know about the possibility to present their future research at SICB.

Additional or expanded information for the Executive Committee:

I have the same response as I did the year before on the nature of the chair for the education being on the SICB executive board. Possibly a committee under the direction of the SICB secretary for reporting to the executive committee is all that is needed/required. It is just an idea that might be discussed and help reduce the size of the executive committee to make them more efficient.

This year we were not able to get the local BOSTON INTEL fair director to gather local high school kids to present at the meeting. So we will be breaking our 5 year tradition of having local high school students presenting their research as a group. However, we will have at least one, possible more, high school student presenting among the normal venue of posters.

New news:

1. This past year Bob Podolsky was elected as chair of the Education Council. We all thank Bob for taking an active role within SICB. Bob is from College of Charleston, Grice Marine Laboratory, Charleston, SC. His email is PodolskyR@cofc.edu
2. One idea that I had for a council activity this following year is to make SICB better known as to WHO we are. If we could compile something like this wonderful video by the Society of Vertebrate Paleontology that explains what vertebrate paleontologists do. We can advertize SICB a bit easier with such a video.
<http://www.vertpaleo.org/video/WeAreSVP/index.cfm>

**Appendix 6b – Public Affairs Committee Report
Peter deFur, Chair, Public Affairs Committee**

Following the January 2008 SICB passage of the resolution in support of teaching evolution, PAC worked with the leadership and Executive Committee to place an OpEd article in a national paper. The piece was sent to the NY Times, Washington Post, LA Times and individual members sent adaptations to their local papers. The piece was not picked up, and I was advised by a colleague in media relations that there had been no news hook for the subject of teaching evolution or explaining Darwin. We should have better success in 2009, with Darwin's 200th anniversary.

As the SICB representative to the AIBS Public Policy Office, I coordinated policy activities and obtained SICB Executive Committee approval in signing letters and other position pieces. These efforts were largely in the area of supporting teaching evolution and opposing anti-evolution efforts, largely legislative, at the state and federal levels.

We coordinated with the Coalition on the Public Understanding of Science (COPUS) to get representatives from the news media to the 2009 Annual meeting. Science magazine has a representative at the meeting and the NY Times science blogger will be at least covering the COPUS web site announcement on Monday, Jan 5. We are hoping to have representatives from local media (WBUR, Boston Globe), Washington Post, Science News, etc. In addition to earlier notices, we distributed a last minute press announcement as a reminder in the week before the meeting.

This year is the 200th anniversary of Darwin's birth and we hope to get coverage on the event in local papers nationwide. PAC is working on materials to provide to the Executive Committee and the membership on preparing letters to the editor and Op-Ed pieces in their local papers in February. Information will be available for the Jan 7 Executive Committee meeting and we will work with Ruedi Birenheide to see if we can put materials on a "members only" part of the SICB website.

I am drafting a letter to the incoming Obama administration for the PAC to approve and Executive Committee to consider. This letter simply spells out SICB's major priorities and urges the President to take action in four areas: support science education; teach evolution, not religion in the classroom; fund basic biological research at all levels; use the best scientists and scientific information unbiased by political agendas or ideologies.

COPUS offers SICB an opportunity to energize and activate our own members and at the same time provide media training. The PAC will meet with COPUS to see how SICB can coordinate efforts with COPUS to accomplish our mutual goals. This effort is one that this year's keynote, Ira Flatow, also urged SICB members to undertake.

**Appendix 6c – Development Committee Report
Tom Daniel, Chair, Development Committee**

I. For the upcoming Seattle meeting

With the Seattle meeting planned for 2010, I have spent some time laying the groundwork for sponsored activities. Right now we are working with Vulcan Inc (P.G. Allen organization) will provide some funding towards any activities that relate to "Biologically Inspired Design" -- if there are particular symposia, workshops, or other activities that would benefit from this, that would be really good to know. My guess is that they might fund a social or some related activity.

Neural-Engineering or Computational Biology: Any symposia or activities that fall under this category would be exceedingly attractive to Microsoft. Once you have a fix on those, let me know. They are working actively with the UW to promote neural-engineering (however one would like to define it).

II. Establishing funding domains (and their dollar amount).

Ron Dimock has been fantastic in establishing domains for which funding would be desirable and the costs associated with them.

A. Student support at \$6K for the Fellowships for Graduate Student Travel B. Grants in Aid of Research (GIAR) -- any amount would be fantastic C. Receptions including Welcom (\$15K), Coffee breaks (\$8k), Society Wide (\$20K) D. General student support \$60K E. Complimentary drinks (\$7K)

III. Plans

A. Tom will meet with vendors at Boston SICB to see if we can acquire their support for any of the above -- it would be helpful to know if others are also approaching them so I don't cross paths B. Vendors not present at the meeting (e.g. some of the highspeed video people, ..) will be contacted. Phantom (a highspeed digital video group) are interested. Any other suggestions?

Appendix 7 – Divisional Reports

Division of Animal Behavior (DAB)
Tom Hahn, Chair

Division of Comparative Biomechanics (DCB)

Robert Full, Chair

1. Elections

Present elected officers include:

Robert Full, chair; Frank Fish, program officer, Miriam Ashley-Ross, secretary.

Gabriel Rivera is our student/postdoc representative. We are about to hold our second set of elections.

To get on track for transitioning from the interim officers to our "normal" election schedule (<http://www.sicb.org/resources/electionschedule.php3>), we will need to hold elections in the Spring for the Chair-Elect and Program Officer. In the Spring newsletter, we'll have short biographical sketches of the candidates, and dates for the actual election. We have selected members of the divisional nominating committee that include Adam Summers (asummers@uci.edu) and Thomas Roberts (Thomas_Roberts@brown.edu).

2. Bylaws Revisions

There will also be some bylaws revisions to bring our divisional bylaws into conformity with the SICB bylaws and constitution. These will be described in the Spring 2009 newsletter and voting will occur later in the spring.

3. Membership

We started with 151 members two years ago. We had 198 members join in the first year. We had 168 join the Division last year. Now, we have a total of 517 members.

4. Meetings

The San Antonio Meeting was a remarkably successful. DCB sponsored three symposia. There were 19 sessions related to biomechanics with 99 contributed papers and 53 posters. The Boston meeting includes sponsorship of one symposium Sensory Biomechanics, organized by Matt McHenry and Sanjay Sane. The symposium has four Complementary sessions. There are 35 oral presentations Sessions related to Biomechanics with 175 papers and 89 Posters.

Because Boston is one of the world's centers for robot companies that use biological inspiration, I arranged a tour of iRobot to take place on Monday at 3:00 PM. The response was incredible. The slots filled up very quickly.

5. Education

NSF CCLI. On the education front, chair Full presented a keynote address to 600 PIs at an NSF and AAAS sponsored meeting of the Course, Curriculum, and Laboratory Improvement Program. He discussed how comparative biomechanics laboratories serve as an exceptionally good vehicle for research-based learning. He will urge DCB members to look at this program for future funding of educational activities (<http://www.nsf.gov/pubs/2008/nsf08546/nsf08546.htm>).

6. Communicating Science to the Public

Science & Entertainment Exchange. Communicating Science to the public has never been more important. Last month, chair Full presented research in comparative biomechanics to the Entertainment Industry in a new program called The Science & Entertainment Exchange. It is a program of the National Academy of Sciences that provides entertainment industry professionals with access to top scientists and engineers to help bring the reality of cutting-edge science to creative and engaging storylines. DCB research is high profile, easy to understand and therefore just right for this effort. Members will be asked if they are interested in participating.

7. Underrepresented Minorities

Chair Full is serving on the Board of ABRCMS, The Annual Biomedical Research Conference for Minority Students. ABRCMS is the largest multidisciplinary student conference in the United States. Each year, the conference attracts approximately 2,600 individuals, including 1650 undergraduate students, 300 graduate students/ postdoctoral scientists and 750 faculty and administrators. The undergraduates are juniors and seniors looking for graduate schools. They have decided to biological research and not medical school. These are exceptionally qualified students. They are interested in DCB research in particular. Chair Full gave the keynote address at the meeting two years ago. DCB, and SICB in general, will be asked for volunteers to:

1. Offer to give a talk at the annual meeting. The experience completely changed my thinking about issues of access and diversity.
2. To act as a representative for the faculty members of the society and the students who wish to attend this meeting.

8. Contributions to Website

We have established a Researchers Database for the Division. We are asking members to e-mail a short description of your research, along with a picture related to it, for inclusion in the online database. It's a great tool for attracting potential students.

9. Best Student Presentation Awards

Last year we inaugurated competition for the Best Student Paper and Best Student Poster in the Division for the first time at this meeting.

We had 23 entries, spanning the spectrum from the microscopic to fully organismal. Here are the winners: Best Student Oral Presentation, Anne Peattie, University of California Berkeley, Effect of Variation in Length and Width on Single Seta Force in Geckos. Best Student Poster, Kevin Miklasz, Hopkins Marine Station of Stanford University, Pacific Grove, A Low-Reynolds number conundrum: How fast should diatoms sink?

Division of Comparative Endocrinology (DCE)

Stacia Sower, Chair

- 1.** This year we are pleased to announce that Professor Peter J. Sharp, PhD, FRSE, Genetics and Genomics Division, The Roslin Institute and Royal (Dick) School of Veterinary Studies, University of Edinburgh, Scotland, UK will be presenting the Howard Bern Lecture. The title of his presentation will be "Vertebrate Photoperiodic Signaling."
- 2.** This past year we implemented a nominating committee for the Howard Bern Lecture. We had excellent nominations and this seemed to be an excellent forum in which to select the Howard Bern Lecturer
- 3.** Hamid Habibi, John Chang and Alice Hontela hosted the International Symposium on Fish Endocrinology at the University of Calgary, June 22-27, 2008. There were over 300 participants. Drs. Ed Donaldson, Geoff Eales, Tetsuya Hirano, Sandy Scott, and Zvi Yaron each received a Lifetime Achievement Award in recognition of his/her significant contribution in the area of Fish Endocrinology.
- 4.** The 9th International Symposium of Avian Endocrinology was held in the historic town of Leuven, Belgium, 11-15 July 2008. Professors Veerle Darras, Eddy Decuypere, and Johan Buyse hosted approximately 200 of the world's avian endocrinologists at this quadrennial meeting.
- 5.** DCE will sponsor seven oral sessions, co-sponsor four of the ten symposia, and be well represented at the poster sessions:
- 6.** Approximately 40 students are participating in the Best Student Paper program in Boston (total for both oral and poster presentations). Dr. Ignacio Moore of Virginia Tech will serve as the Chair of the DCE Student Award Committee.
- 7.** We invited the Western Regional Conference on Comparative Endocrinology (WRCCE) to have a co-meeting with DCE at the SICB meeting in Seattle. WRCCE accepted and we are looking forward to a strong endocrine group in 2010 at SICB.
- 8.** Linda Holland and Stacia Sower have sent a late-breaking proposal in early December 2008 to the SICB Program Office, Ed Rosa-Molinar, for consideration for the 2010 meeting. The proposal is entitled "Insights of Early Chordate Genomics: Endocrinology and Development in Amphioxus, Tunicates and Lampreys."
- 9.** The 16th International Congress of Comparative Endocrinology will be held in Hong Kong from June 22-26, 2009.
- 10.** The Endocrine Society meeting will be held June 10-13, 2009 in Washington, D.C
- 11.** The Society for the Study of Reproduction will be held **18-22 July 2009 in Pittsburgh, Pennsylvania**

Division of Comparative Physiology & Biochemistry (DCPB)

Joe Williams, Chair

Election Results: DCPB members elected Jim Hicks Chair-Elect of DCPB for the coming term 1/2010-1/2011 and Kathy Dickson as Program Officer 1/2009-1/2011.

Program News-Boston 2009: Our Program Officer, Don Mykles, has informed me that our upcoming meeting in Boston, Jan. 2009, will be the largest meeting that we have ever had, with 1600 participants expected. Don and other members of the SICB Program Committee met in Boston, Sept 26-28th, and made plans for our extravaganza in the Westin Boston Waterfront Hotel.

Bartholomew Award Committee: The Bartholomew Award Committee, Katie Gilmour (chair), Peter Wainwright, Stephen Secor, Malcolm Gordon, and Lou Burnett, evaluated a large number of applicants for the Bartholomew Award. Katie Gilmour indicated that the application pool this year was exceptionally strong making the choice of a winner difficult.

Bartholomew Award Winner: Lynn "Marty" Martin is the winner of the Bartholomew Award for 2009. Named in honor of George A. Bartholomew, a past president of SICB, the Bart Award is given annually to a young investigator for distinguished contributions to Comparative Physiology and Biochemistry or to related fields of Functional and Integrative Biology. Marty Martin received his Ph.D. from Princeton in 2004, and then went to Ohio State University for a Postdoctoral Fellowship. Although Marty's research interests are varied, he mainly focuses on understanding how physiological systems, in particular the endocrine and immune systems, constrain the pace of life of rodents and songbirds. He has pioneered new studies in ecological immunity of wild vertebrates. Marty will present the Bartholomew Award lecture on Sunday, Jan 4, 2009 at 6:30 pm.

Sable Systems: At the Bart Award Lecture, John Lighton, founder of Sable Systems International and long-time member of SICB, will present Marty with a cash prize of \$1,000 in honor of Dr. Bartholomew. The cash prize has been increased from \$500 to \$1,000 by Sable Systems. The remainder of Marty's expenses will be paid by DCPB from the Bartholomew fund.

Nominating Committee-for Secretary of DCPB: A committee, consisting of Stephen Secor (Chair), Dick Tracy, Doug Altshuler, Lisa Crockett and Pat Walsh was formed to put forward names of people that would be willing to serve as Secretary of DCPB for the next term. The candidates are Anna Ahn, assistant professor at Harvey Mudd College, Stephen Kinsey, associate professor at University of North Carolina at Wilmington, and David Tapley, associate professor at Salem State College.

Undergraduate Steering Committee: Last year, several DCPB members approached Joe Williams about fostering more undergraduate participation in SICB meetings. Graduate students are often seen as the life-blood of our society, but undergraduates with research experience are the primary source of our best graduate students. To this end, DCPB established an

undergraduate steering committee composed of Itzick Vatnick, Mark Hausman, Harry Itagaki, Chris Gillen, Bob Mauck, and Dave Tapley. As a first step in achieving its goal, this committee has organized an undergraduate mixer on Sunday at noon for the Boston Meeting. In addition, this committee is considering a symposium in 2010 entitled "Involving Undergraduates in Research."

Best Student Paper Awards: The Division of Comparative Physiology and Biochemistry honors its student presenters with Best Student Paper Awards, one for best oral presentation and best poster, at each year's annual meeting. Dave Tapley, the organizer for our judges this year, has indicated that we have had over 30 volunteers to be judges this year in Boston.

Editorship of PBZ: Jim Hicks has indicated that he will resign as editor of Physiological and Biochemical Zoology at the end of his current term. We have sent a message to members soliciting nominations for the next editor of our journal.

Division of Developmental and Cell Biology (DDCB)

Karen Crawford, Chair

Filling out our committee leadership (2008):

Program Officer - Scott F. Gilbert (Swarthmore College)

Secretary - Jennifer Dearolf (Hendrix College)

Graduate student/postdoctoral fellow representative Michelangelo von Dassow (University of Pittsburgh)

Editorial Board Representative - Richard Elinson (Duquesne University)

Plan for Seattle SICB 2010:

Alexa Bely (University of Maryland) will team up with Sara Lindsay (University of Maine) to co-organize a session entitled “Animal Regeneration: Integrating Development, Ecology, and Evolution”. Their plan is to bring together researchers studying regeneration from diverse perspectives and using a range of study organisms, including both vertebrates and invertebrates. The ultimate goal of this symposium is to create an environment conducive to the exchange and integration of ideas and knowledge of regeneration across disciplines and to identify needed areas for future work. Key questions that this symposium hopes to address include: Why do regeneration abilities vary across groups? What are the causes of frequency of tissue loss, leading to regeneration, in the field? What are the costs and benefits of tissue loss and regeneration? Which features of the regeneration process are homologous across major groups of animals? And, to what extent does regeneration employ the same developmental processes as embryogenesis, adult growth, and asexual reproduction? Her proposal to the planning committee was very well received and we look forward to an exciting new beginning for our division with this wonderful symposium.

Plans/goals for the future:

- Address needed changes to the bylaws
- Assist with planning for future symposia

Division of Ecology & Evolution (DEE)

George Bakken, Chair

Activities:

Best Student Presentation Competition: The Best Student Paper Award went to Phillip Bergman and the Best Student Poster Award went to Allison Churcher. We congratulate the winners and thank the judges for volunteering their time.

Symposia: DEE is cosponsoring four symposia at this meeting: 1. The Biology of the Parasitic Crustacean 2. Genomics and Vertebrate Adaptive Radiation: A Celebration of the First Cichlid Genome 3. Cell-Cell Signaling Drives the Evolution of Complex Traits. 4. PharmEcology: A pharmacological approach to understanding plant-herbivore interactions.

Bylaws: DEE is in the process of revising its bylaws. The draft revisions were published in the Fall 2008 newsletter. We will discuss these changes at the 2009 divisional meeting and place them on a ballot in Spring, 2009. The main objectives are to align the divisional bylaws with the society bylaws and create two new positions secretary-elect and program officer-elect to improve continuity in division affairs.

Division Officers for 2009:

Chair: Michele "Nish" Nishiguchi. *Chair-elect:* Arthur "Art" Woods, University of Montana. *Secretary:* Michael "Mike" Finkler. *Program Officer:* Michael "Mike" Sears, Southern Illinois University. *Student Representative to the Student/Postdoctoral Affairs Committee:* Sarah Berke. *Past Chair:* George Bakken.

In Memoriam:

We are saddened to announce the loss of our immediate past program officer Jennifer Elwood, who passed away on 3 September 2008. Jennifer received her Doctorate from Drexel University and was most recently Assistant Professor of Biology at Anne Arundel Community College, Arnold, Maryland. Her research involved evolution, functional morphology and physiological ecology of salamanders and other vertebrates. We express our appreciation for her service to the Division of Ecology and Evolution, and our deepest sympathy to Jennifer's family, friends, and colleagues.

Division of Evolutionary Developmental Biology (DEDB)

Linda Holland Chair

For the 2009 SICB meeting in Boston, DEDB is sponsoring one symposium "Cell-cell signaling drives the evolution of complex traits," organized by John Torday. For 2010 the division is supporting two symposia--one on regeneration and one on spiralian development and evolution.

The division voted on changes to the Bylaws concerning filling vacancies in office and terms in office.

This year Elaine Seaver will take over from Marcus Davis as DEDB secretary. Wendy Olson will continue as DEDB program officer.

We broke precedent this year by postponing elections for DEDB officers until this fall. The chair-elect is Mark Martindale from the University of Hawaii who will take over as chair after the 2010 meeting in Seattle. Pat Hernandez from George Washington University was elected program officer to take over from Wendy Olson.

Once again, DEDB will be making awards for the best student paper and best student oral presentation. Last year the best oral presentation award went to Pierre Le Pabic (East Carolina University) for his presentation "Evolutionary divergence of pharyngeal arch specification in teleosts" and the best student poster award went to Nathan Bird (George Washington University) for his presentation "Differential growth and the evolution of novel vertebral morphology: lessons from the cypriniform Weberian apparatus."

Division of Invertebrate Zoology (DIZ)

Janice Voltzow, Chair

Abstract of Activities:

Student awards for 2008:

This year 23 students competed from for best student paper. The winners were:

Best oral presentation

Winner - Lindsay Waldrop for her talk entitled, "Fluid dynamics of antennule flicking of the blue crab, *Callinectes sapidus*"

Runner up - Pauline Yu "Extended starvation resistance and subsequent growth recovery in sea urchin larvae: Implications for lifespan in the plankton"

Best poster presentation

Winner - Joerg Hammel "Morphogenesis during asexual bud-formation and growth in the poriferan *Tethya wilhelma*: silica skeleton, aquiferous system and the mesohyle"

Runner up - Dawn Vaughn, "Attack on the Clones: Predator-Induced Cloning in Echinoderm Larvae"

Adrian M. Wenner Strong Inference Award

Winner - Nicholas Alcorn "How do changes in parental investment influence larval development in Gulf of Maine echinoids?"

Runner up - Sylvia Lewis "Tests for palatability and feeding deterrence in egg masses of nine species of opisthobranch gastropods"

Twelve candidates -- a mix of undergraduates and graduate students, from schools all around the United States -- applied for the 2008 Libbie Hyman Memorial Scholarship, which is intended to support coursework or research on invertebrates at a field station. The committee (Will Jaeckle, John Zardus, and chair Bruno Pernet) found it difficult to select just one of these to receive the scholarship. But after some discussion, they selected Dennis Evangelista, a second-year graduate student in Mimi Koehl's laboratory at UC Berkeley. Dennis used the award to support his participation in two courses, Biomechanics and Marine Invertebrate Zoology, at Friday Harbor Labs during summer 2008.

Changes in officers and committee chairs:

Dianna Padilla was elected chair-elect and will begin serving her term as DIZ Chair at the end of the Boston meeting.

Highlight for Boston 2009:

We are planning an auction to benefit the Libbie H. Hyman Memorial Scholarship Fund.

Division of Systematics and Evolutionary Biology (DSEB)

Anne Maglia, Chair

2008 San Antonio Meetings:

We awarded two DSEB Best Student Paper awards (owing to a voting tie). The winners were Ka Yan Ma, Chinese University of Hong Kong: Molecular phylogeny of Dendrobranchiata inferred from two nuclear markers, and Annie R. Lindgren, Ohio State University: Evolution of recent squids (Cephalopoda: Decapodiformes) inferred from molecular data. In addition, Elizabeth Borda, American Museum of Natural History, was given Honorable Mention for her talk on the Systematics and diversity of Arhynchobdellida (Oligochaeta: Hirudinida), with a focus on the evolutionary history of bloodfeeding terrestrial leeches. The DESB Best Student Poster award was given to Johanna T. Cannon, Auburn University: Hemichordate relationships and insights into ancestors. DSEB co-sponsored two well-attended symposia: "Decapod Phylogenetics" and "Teaching Evolution." Don Swiderski completed his term as chair of DSEB at the conclusion of the 2008 meeting (and we thank him for his service, particularly with respect to the proposed bylaw changes); chair-elect Anne Maglia assumed the duties.

Elections and Bylaw Changes

We conducted elections for two offices (102 votes were cast). Patrick O'Connor, Assistant Professor of Anatomical Sciences at Ohio University, is the new chair-elect of the division, and Todd Oakley, Assistant Professor of Ecology, Evolution and Marine Biology at UC Santa Barbara, is the new secretary-elect. We thank them both for their willingness to serve. In addition, Marta deMaintenon, the divisional secretary, has been working diligently with Lou Burnett on updating and modifying the divisional bylaws. We plan to have the several proposed modifications (that relate to the length division chair's term, the appointment of student/postdoc representative, requirements for divisional membership, the date of commencement of officers' terms, and the role of executive committee). Finally, the division has recommended that Richard Mooi be reappointed to the ICB Editorial Board as our divisional representative.

Activities Associated with the 2009 Boston Meetings:

In addition to the Student Paper and Poster competitions, DSEB is co-sponsoring two symposia: "Biology of Parasitic crustaceans" and "Insect Evolution." DSEB also will be co-sponsoring a divisional social with DIZ, DEE and the Crustacean Society, and the social will be followed by the DIZ auction to benefit the Libbie Hyman Fellowship Program. Finally, DSEB will be offering an extended Phylogenetics for Dummies program taught by Michael Alfaro (UCLA), Marguerite Butler (University of Hawaii), and Luke Harmon (University of Idaho). The program will focus on using the programming language R to conduct comparative analyses, will be divided into two sessions held over two days, and will include topics such as: R language essentials, getting data into R, manipulating trees and tip data, printing trees and figures, and calculating independent contrasts, Brownian and OU models of character evolution, diversification analysis, ancestral reconstruction, and simulation methods.

Division of Neurobiology (DNB)

James Murray, Chair (Jan 07'–Jan '10)

Tom Pirtle, Secretary (Jan 07'–Jan '10)

Duane McPherson, Program Officer (Jan 07'–Jan '10)

Jenna A. Monroy, Student/Postdoc Representative (Jan 07'–Jan '10)

The DNB co-sponsored (but did not organize) Sensory Biomechanics and Psychoneuroimmunology at the Boston '09 meeting.

Roger Croll is now the representative of our division on the editorial board of the SICB journal *Integrative and Comparative Biology*.

We did not receive any proposals for a DNB-related symposium for the 2010 meeting in Seattle. We are hoping for a compensatory increase in contributed oral and poster presentations! Duane (Program Officer) is in the process of planning a symposium for the 2011 meeting on Central Pattern Generators, and would welcome suggestions and a collaborator for that project. And we can certainly propose more than one symposium, if there is interest.

There are 37 neurobiology abstracts scheduled for the 2009 meeting; 16 of these are oral presentations and 21 are posters. This does not include oral presentations in the sessions related to the Sensory Biomechanics symposium. The numbers are good and represent an increase from 2008 (11 oral, 19 posters, not counting symposium-linked). Please consider serving as a judge for poster and oral presentations. An email will be sent in the coming weeks to the DNB membership to ask for participation in judging.

The annual meeting in San Antonio went very well. Our symposium on Recent Advances in Neurobiology, focused on the gonadatropic axis, was successful and well attended. The DNB met and discussed the perpetual issues of recruiting and funding.

We would also like to solicit pictures and research program descriptions to add to the website. Please contact our divisional secretary Tom Pirtle. Send him a brief paragraph and a photo that depicts your research. These are the photos features in the upper left hand panel on the SICB web page that change when the screen is refreshed. These can help to draw eyes to the SICB website, and to DNB, and hopefully increase recruiting.

At the San Antonio meeting the DNB had contributed 38 abstracts - 22 posters and 16 oral presentations. The best student poster and oral presentation are as follows:

Jessica L. Fox of the University of Washington was awarded The Best Student Oral Presentation for her presentation: Encoding characteristics of haltere mechanoreceptors.

Two students tied for the Best Student Poster Presentation. Rebecca M. Calisi of UC Berkeley was awarded The Best Student Poster Presentation for her presentation: Capture-handling stress and its effect upon hypothalamic EGR-1 and GnIH expression in house sparrows (*Passer domesticus*) and Kyle Willingham of Abilene Christian University was awarded the Best Student Poster Presentation for his presentation: The effect of the hyperpolarization-activated inward current antagonist, ZD7288, on the locomotor rhythm of *Clione limacina*.

Division of Vertebrate Morphology (DVM)

Kurt Schwenk, Chair

DVM had an unusually busy year with two regional meetings and budget issues:

At the 2008 SICB meeting in San Antonio, Texas, there were 25 student competitors for the D. Dwight Davis Award for best oral presentation and ten for the DVM Best Student Poster Presentation. The D. Dwight Davis Award went to Andrew Farke of Stony Brook University for his talk entitled, *Evolution of the frontal sinuses in Bovidae*. The award for best poster presentation was split between Leah Brown-Wilusz, an undergraduate at the University of Connecticut, and Brad Chadwell of Wake Forest University. Leah's poster (with Tobias Landberg) was entitled, *Ontogenetic effects of hatching plasticity in spotted salamanders due to larval and egg predators*. Brad's poster (with B.W. Hunter and Miriam Ashley-Ross) was entitled, *When Designing Rays, Function Matters*.

DVM allotted funds for co-sponsorship of four symposia at the 2009 Boston: (i) *Hormonal Regulation of Whole-Animal Performance: Implications for Selection*; (ii) *Sensory Biomechanics*; (iii) *Biomaterials: Properties, Variation and Evolution*; and (iv) *Genomics and Vertebrate Adaptive Radiation: A Celebration of the First Cichlid Genome*. In addition, two highly successful regional meetings were held—a combined DVM/DCB southeast regional meeting at Clemson University (13 October 2008) organized by Gabe Rivera, Rick Blob, and Ty Hedrick; and a DVM northeast regional meeting at the University of Connecticut (25 October 2008) organized by Kurt Schwenk, Tobias Landberg and Diego Sustaita.

Under the leadership of Secretary Gary Gillis, current DVM officers and others prepared research summaries for posting on the DVM website. These are intended to inspire other members to follow suit with their own research summaries. Our goal is nearly complete coverage of active morphology labs as a resource to students and researchers.

Given the number of symposia traditionally sponsored by DVM, as well as at least one regional meeting every year, there was a great deal of discussion among Divisional officers about how to supplement our limited budget to support these and other possible divisional initiatives. The Divisional Executive Committee is proposing to institute a \$5 fee for DVM membership to increase the amount of money available to the Division and the flexibility with which it can be spent. This initiative, as well as several minor wording and possible election schedule changes, are being prepared as changes to the bylaws by current DVM Chair Schwenk and will be proposed to the membership at the 2009 business meeting, and subsequently voted on by the full membership in the spring of 2009.

Finally, in direct response to a newsletter item about DVM's budgetary situation, a long-time member and active participant in DVM has donated \$3000 to the Division in direct support of regional meetings, symposia and other divisional activities! We are very grateful for this generous gift.

Appendix 8 – Policy on Affiliated Societies

One-way relationship. If the periodic meetings of the affiliated society are less frequent than SICB's (less than one per year), the affiliated society will pay a nominal annual fee of \$250 to SICB for the Benefits of Affiliation described below. A reciprocal relationship (see below) can be arranged in the years when the affiliated society has a formal meeting that will be at least of divisional appeal to SICB members.

Reciprocal relationship. If the periodic meetings of the affiliated society and SICB are equal in frequency (annual) the affiliated society and SICB will agree to a mutual-benefit arrangement in which no money changes hands, but the benefits described below are reciprocal.

Background

Due to SICB's emphasis on integrative and comparative biology, it should consider forming ties with other biological societies, providing advantages to members of the other societies that will encourage participation in our annual meetings, and encourage our members to participate in the activities of the other societies. Two kinds of relationships should be considered: one-way and reciprocal

Benefits of Affiliation

Full members in good standing of the affiliated society can attend SICB annual meetings and pay the member registration rate (regular member, not loyal member). In a reciprocal relationship, SICB members in good standing will be able to attend the meetings of the affiliated society and pay the member registration rate.

Full members in good standing of the affiliated society can organize symposia at the SICB annual meeting so long as divisional sponsorship can be obtained.

Officers of the affiliated society can send appropriate announcements (approved by SICB Executive Officers) to SICB for society-wide or divisional e-mail distribution.

Members of the affiliated society will NOT receive full member benefits, to include (for example) subscription to the society journal and access to member-only pages of the website.

Student benefits, such as eligibility for best student talks and poster awards, and various society provisions for reduction of housing and registration fees, will be restricted to SICB student members.

Appendix 9 - The Carl Gans Award Fund

Purpose and suggested name of the proposed fund (an example of an intended purpose is to endow an award, event or function):

An annual prize may be given to any investigator for the single best contribution of the past year to the literature of comparative biomechanics and functional biology. The formal title for this award is "The Carl Gans Award," in recognition of Carl Gans' scientific, teaching, and editorial contributions to animal morphology, biomechanics, and functional biology.

Probable initial donation amount (note that for donations that are intended to endow an activity or function, SICB uses a calculation of 4% of the value of the fund as being the available amount for expenditures on the activity or function):

\$25,000; to be raised from the SICB Division of Comparative Biomechanics membership and from Carl Gans' many friends and colleagues in the herpetological and biomechanical communities.

In addition to the purpose of the proposed fund, please state the mechanism for awarding the resulting revenue. If you need help with this portion (determining the process), please do not hesitate to contact Brett Burk.

The Chair of the Division of Comparative Biomechanics shall appoint annually an Award Committee consisting of at least three divisional members with diverse interests to serve as judges. The Chair of the Division will designate one of the members as the chair of the Award Committee. Committee members will normally serve for no more than three years, with at least one member being replaced each year. Candidates may apply directly or be nominated; both types of candidates will be evaluated equivalently. If multiple applications are judged as equally meritorious, then the award will go to the contributor who has most recently received their Ph.D. Applicants shall submit to the Chair of the Award Committee a copy (electronic or hard copy) of a research paper, a review article, or a book. A curriculum vitae must also be submitted, along with three letters of support. Nominators must arrange for these same materials (except that only two additional letters of recommendation are required) to be submitted to the Committee. The Committee may recommend for approval one candidate to the Chair of the Division, who may authorize reimbursement of appropriate expenses incurred by the winner in attending the annual SICB meeting. The awardee will be presented with a certificate signed by all current Divisional officers. The Chair may also authorize a research award to further one or more of the following themes: 1) general field and laboratory work in comparative biomechanics, 2) collaborative work with scientists in Israel, 3) travel to visit Ben-Gurion University (Sde-Boqer Campus) and the Gans Library, and to conduct fieldwork in Israel, and 4) support of collaborative international research. These research themes recognize Carl Gans' efforts to promote and foster international collaborations among scientists, as well as his ability to show that all animals are interesting.

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