

Division of Comparative Physiology and Biochemistry

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DCPB Officers & Representatives

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Chair-Elect 2009-2010

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Allen G Gibbs
Secretary 2008-2010

Kathy Dickson
Program Officer 2009-2011

Jennifer Ro
Student/Postdoc Representative
2008-2011

Louis E. Burnett
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Charles E. Booth
ICB Editorial Board Representative
2006-2011

Message from the Chair

Joe Williams

A new DCPB chair for 2010-2011

I wanted to remind you that Jim Hicks will be the Chair of DCPB for the coming term. I hope Jim has as much fun meeting new people as I have had!

Jim Hicks resigns as editor of PBZ

Jim Hicks and Andrea Canfield served as editor and managing editor, respectively, of PBZ from 2001-2009. During that time, they processed 1,536 papers. As editor, Jim made substantial changes to the editorial process at PBZ including the double-blind review process, electronic manuscript submission and review process, "ecological and evolutionary approaches" subtitle, color covers, and Focused Issues on topics such as climate change and extinction, and experimental evolution. He accomplished all of this, ran an active lab, and carried a full load of teaching. Where did he find time to be a consultant to Pixar Animation Studios on "Wall-E"? Amazing! Jim, we thank you!



Jim Hicks



Andrea Canfield

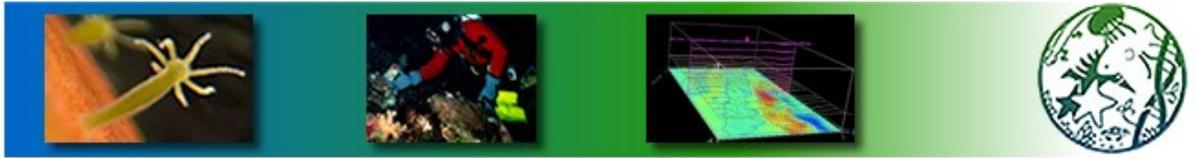
When we began a search for a new editor, without exception, all associate editors voiced their concern that Andrea Canfield remain on board as managing editor, and the new incoming editors made re-hiring Andrea a top priority, clear indications of the high esteem that we all hold for Andrea. All of DCPB extends a warm thank you to Jim and Andrea for their efforts on our behalf.

New Editors of *Physiological and Biochemical Zoology*

I am pleased to announce that Katy Gilmour of the University of Ottawa and Trish Schulte of the University of British Columbia have agreed to serve as Co-editors of *Physiological and Biochemical Zoology*. Comparative physiologists who served several years as Associate Editors for *PBZ*, Katy and Trish began their task as co-editors in July 2009. I am also happy to an-



Katie Gilmore



nounce that Andrea Canfield (pbz@uci.edu) will continue as managing editor, assuring a smooth segue between old and new editors.

As co-editors of *PBZ*, Gilmour and Schulte have outlined several goals for *PBZ*.

First and foremost, they identified the primary goal of positioning *PBZ* as the top journal for comparative physiology and biochemistry within an evolutionary, ecological and/or behavioral context. Katie has suggested "achieving this goal requires raising the profile of the journal within its current author base, as well as making *PBZ* a more attractive destination for new researchers' best work." A key step

in increasing the attractiveness of *PBZ* will be to reduce the turnaround time from manuscript submission to publication. Significant steps have already been taken in this regard, and new initiatives will be implemented during the coming months. In order to alleviate the backlog of papers that the journal has accumulated, the University of Chicago Press agreed during discussions with Katie and Trish to a temporary increase in the size of each issue, at least for this year, despite the increased cost associated with such a tactic. Efforts are also being made to streamline the production process so that electronic publication follows rapidly upon acceptance of a manuscript with subsequent appearance in print according to *PBZ*'s schedule of 6 journal issues per year. In addition, the new editors aim to reduce the time required for manuscript review and have instituted a system of gentle reminders to reviewers. As active researchers themselves, Gilmour and Schulte are acutely aware of the need for timely publication of research results and have made achieving this goal for *PBZ* a top priority. The new editors are also pleased to announce that all back issues of *PBZ* are now available electronically in JSTOR via the *PBZ* Web site.



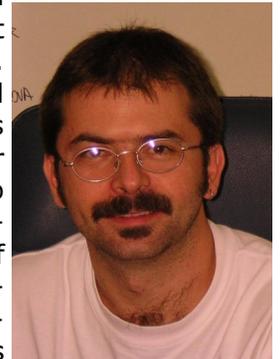
Trish Schulte

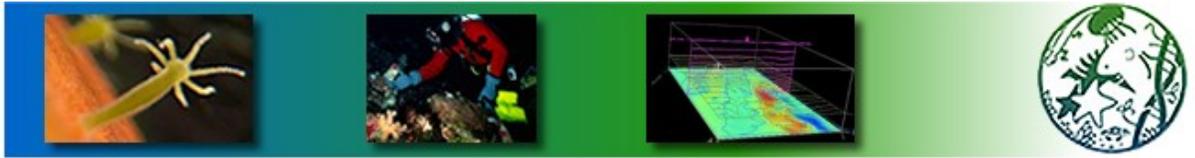
Program News-Seattle 2010

Our divisional program officer, Kathy Dickson has informed me that for our upcoming meeting in Seattle, January 2010, we have over 1318 abstracts, the second largest meeting ever. Of these, DCPB members have submitted 136 abstracts, and we have 59 student papers. It looks like it will be a great meeting. See Kathy's newsletter contribution for details. Kathy, thank you for all of your efforts on our behalf.

Bartholomew Award Winner!

The Bartholomew awards committee has selected Dr. Roberto Nespolo, Associate Professor of Science, Universidad Austral de Chile, as the recipient of the 2010 Bartholomew Award. An annual award administered by DCPB, the Bart Award is "given to a young investigator for distinguished contributions to comparative physiology and biochemistry or to related fields of functional and integrative biology." Roberto's research has focused on studying how animals in natural populations acquire and allocate energy, and the heritability of these energy acquisition/allocation patterns. He has also been interested in exploring what constraints to adaptive evolution exist in animals, and ultimately how they impact fitness. Roberto says, "Our group works in three main areas, evolutionary quantitative genetics of energy metabolism in natural populations of animals, comparative physiological studies addressing specific adaptations to the environment, and the physiological causes and consequences of human-driven habitat perturbations and invasions." One of his recent findings is a paper that shows support for a connection between energy expenditure and fit-





ness. Congratulations Roberto! We look forward to your address to SICB in January. At the lecture, John Lighton, founder of Sable Systems, will present Roberto with a cash prize of \$1,000 in honor of Dr. Bartholomew, who was John's advisor at UCLA. The remainder of Roberto's expenses will be paid by DCPB from the Bartholomew fund. Anyone interested in contributing to the Bartholomew Fund can do so on the SICB web page under "donations."

Bartholomew Award Committee:



Stephen Secor



Doug Altschuler

On behalf of DCPB, I wanted to thank Stephen Secor, chair of the Bart Award Committee, and the other committee members, Peter Wainwright, Malcolm Gordon, and Lou Burnett, for taking their time to evaluate the large number of applicants this year for the Bartholomew award. In addition, I want to welcome the newest member of the committee, Doug Altschuler. Thanks to all.

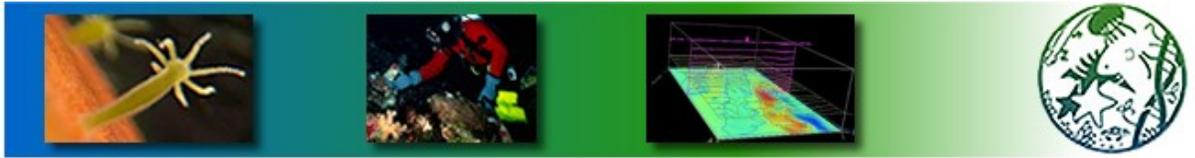
Symposia Sponsored by DCPB

For the 2010 meeting, DCPB will sponsor a symposium entitled "Metabolism, Life History, and Aging." Jim Harper, organizer of the symposium, wrote "Laboratory models have demonstrated a clear link between metabolism and aging, and it is well known that the evolution of specific life histories can be driven by metabolic factors. However, there is little known regarding how the adoption of specific life history strategies can shape aging and life span in populations facing different energetic demands, as for example animals in tropical vs temperate environments, from either a theoretical or a mechanistic viewpoint. This symposium would bring together biogerontologists that work on a variety of vertebrate and invertebrate models whose interests transcend these boundaries. The hope is that this symposium will forge new relationships between the biogerontology community and comparative field biologists to generate new experimental paradigms with important ramifications for human medicine."

DCPB will also co-sponsor a symposium entitled "Advances in Antarctic Marine Biology" organized by James McClintock, Charles Amstler, Amy Moran, Art Woods, and Bill Baker. These authors wrote "The unique marine environment of Antarctica provides an exciting opportunity to showcase a broadly based symposium on aspects of the biology of its rich and diverse marine life. Topical areas will include, among others, the recent dramatic ecological impacts of climate changes across multiple trophic levels in Antarctic seas, advances in molecular and physiological aspects of cold adaptation in marine invertebrates and fish, the role of chemical ecology in structuring nearshore marine benthic communities of the Antarctic Peninsula, new molecular approaches to deciphering patterns of marine invertebrate biogeography and phylogenetics, and recently engineered instrumentation used to elucidate foraging habitats of Antarctic marine mammals." The presentations will be pertinent to biologists (graduate students and research faculty) working in temperate and tropical environments, as well as polar environments.

Grand Challenges Workshop

The Grand Challenges for Organismal Biology (Schwenk *et al.*, 2009) have refocused the importance of the organism in biological studies. The series of papers published in *ICB* have described how this principal is important in most lines of research. In order to begin discussions of how we implement these Grand Challenges, the SICB has organized a workshop to initiate discussions with the authors of



these papers. The Program Committee has also invited leadership from external societies to participate in this discussion on implementation to enhance the scope of discussions and to allow these societal executive officers to bring the discussion back to their societies. The societies that agreed to participate are Sigma Xi, Ecological Society of America, Society for Developmental Biology, American Physiological Society, Animal Behavior Society, and American Society for Cell Biology.

The workshop will be held on Wednesday, January 6, from noon to 3 PM. We hope that you will be able to attend.

Divisional Meeting

The 2010 business meeting of DCPB will be on Monday, January 4 from 5:15 to 6:15 p.m. in the Convention Center. See you there.

Judges Needed for Presentations

The Division of Comparative Physiology and Biochemistry honors its student presenters with Best Student Presentation Awards, one for best oral presentation and best poster, at each year's annual meeting. This year we have 59 students that will qualify for the "best paper" or "best poster" competition, about 30 more than we had last year in Boston, and the second-highest number of entrants ever. Hence we need people to volunteer to be this year to be a judge. If you will be willing to provide some time to serve DCPB in this manner, please contact Joe Williams or Dave Tapley. You can also sign up to judge when you register on-line for the Seattle meeting.

Message from the Program Officer

Kathy Dickson

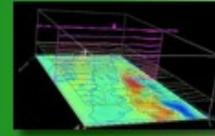
Seattle 2010

The upcoming SICB meeting in Seattle [January 3-7, 2010, at the Sheraton Seattle Hotel and Washington State Convention and Trade Center (<http://www.sicb.org/meetings/2010>)] should be a very good meeting. It is an excellent venue, within walking distance of Pike Street Market and the Space Needle, as well as many excellent restaurants. Taxi fare from the SeaTac airport to the hotel is \$40-45. Alternatively, you can take the Gray Line Shuttle (www.graylineseattle.com) directly to and from the hotel for \$18 roundtrip or \$11 one way, or use Sound Transit's Central Link light rail (<http://www.soundtransit.org>) for \$2.50 each way, which by January should go all the way to the airport. Get off at Westlake (the last stop) for the Sheraton hotel, which is two blocks from the station.

The Seattle meeting will perhaps be the second largest ever, with over 1,300 abstracts submitted! DCPB members submitted more than 170 abstracts, including approximately 90 oral and 85 poster presentations, plus symposium and symposium-related talks. DCPB contributed papers are on topics ranging from proteomics to digestive physiology, from muscle biochemistry to comparative immunology, and are spread out over all four days of the meeting.

DCPB is sponsoring the symposium, **Metabolism, Life History, and Aging**, organized by James Harper, which will be on Monday, January 4, and the society-wide symposium on **Advances in Antarctic Marine Biology**, organized by James McClintock, Charles Amsler, Amy Moran, Art Woods, and Bill Baker.

The **DCPB business meeting** will be on Monday, January 4, at 5:15 p.m., followed by the **Bartholomew Lecture** at 6:30 pm in the



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Convention Center. DCPB is also hosting the **DCPB social and reception** immediately following the Bartholomew Lecture.

A workshop to initiate discussions on implementing the **Grand Challenges for Organismal Biology** (see the 2009 issues of *Integrative and Comparative Biology* at <http://icb.oxfordjournals.org/archive/>) will be held on Wednesday, January 6, from noon to 3 p.m. Officers of several other societies, including Sigma Xi, Ecological Society of America, Society for Developmental Biology, American Physiological Society, Animal Behavior Society, and American Society for Cell Biology, will participate. This will provide an opportunity to shape future research directions in the field, and all members are encouraged to attend. Look for more information on the SICB web site.

Note that, if you will present a talk and/or poster at the Seattle meeting, you are required to register by **November 13, 2009**, in order to have your abstract acceptance finalized and your presentation listed in the final program.

Call for judges for the DCPB Best Student Paper Awards

The Division honors its student presenters with Best Student Paper Awards (one each for best oral presentation and best poster) at each year's annual meeting. This program works because of the dedication and support of the members -- particularly when it comes to serving as judges. This year, we have almost 60 entrants. This is almost as many as we had last year in Boston, which was the second-highest number of entrants ever, so the need for judges is critical this year. In short: **we need you to serve as a judge, this year more than ever.**

What do you have to do? Attend the presentations to which you are assigned and

evaluate the students according to the rubric provided. Ask questions. Be interested. Return evaluations to David Tapley, coordinator of the judging for DCPB, after the meeting.

What are the benefits? Meeting our student members, encouraging them in their research, recognizing their efforts, making them feel more a part of SICB and DCPB, and potentially assuring their future participation in DCPB and the Society. The students receive a monetary award and the pride of knowing that their work is appreciated by the broader professional community.

Who may serve? In brief, YOU! If you are a full or postdoctoral member of DCPB we can find a place to use you, as long as you don't have students entered in BOTH the oral and poster competitions. If you have students in one or the other (but not both), you can still judge.

If you can help, please respond directly to David Tapley (dtapley@salemstate.edu). You can also sign up for judging when you register for the Seattle meeting on-line.

Thanks for your help!

Upcoming Meetings

Symposium proposals for ICCPB 2011, the 8th International Congress of Comparative Physiology & Biochemistry, to be held May 31- June 5, 2011, in Nagoya, Japan, are still being accepted. If you are interested in organizing a symposium for this meeting, the deadline is October 30, 2009. Send the required information listed below as an attached word file to either Kathy Dickson (kdickson@fullerton.edu), Pat Walsh (pwalsh@uottawa.ca) or Lou Burnett (BurnettL@cofc.edu). Allotted time for each symposium will be 2.5 h, with 30 min talks.



Format of ICCPB symposium proposal:

1. Title of Symposium and a field of interest (e.g. Muscle Physiology).
 2. Organizers: Name, Title, Affiliation, Phone, Fax, email.
 3. Synopsis: within 300 words summarize the symposium's objectives, contribution to the meeting, etc.
- List of 5 speakers: Name, Affiliation, email, Tentative talk title.

Salt Lake City 2011: Nine symposia were accepted for the 2011 meeting, including three co-sponsored by DCPB: "Environmentally-Cued Hatching Across Taxa: Embryos Choose A Birthday," organized by Karen Martin, Karen Warkentin, and Richard Strathmann, "Synthesis of Physiologic Data from the Mammalian Feeding Apparatus using FEED, the Feeding Experiments End-User Database," organized by Susan Williams, Christopher Vinyard, Rebecca German, and Chris Wall, and "Environment, Energetics and Fitness: a Symposium Honoring Donald W. Thomas," organized by Michal Wojciechowski, Murray Humphries, and Berry Pinshow.

Call for Symposia for the 2012 SICB meeting: It is not too early to start planning symposia for 2012. Please feel free to discuss ideas with me in Seattle or at any time (kdickson@fullerton.edu or 657-278-5266). Information on how to prepare a proposal is available at <http://www.sicb.org/meetings/2002/nsfinstructions.pdf>

Other upcoming meetings (in chronological order):

Experimental Biology 2010, Anaheim, CA, April 24-28, 2010.

<http://www.eb2009.org>

International Crustacean Congress 7, June 20-25, 2010, Qingdao, China.
<http://www.crustacea.org.cn/7th/index.htm>

Society for Experimental Biology Annual Main Meeting 2010 (**SEBatPrague2010**), June 30 - July 3, 2010, Prague, Czech Republic
<http://www.sebiology.org/meetings>

Joint Meeting of Ichthyologists and Herpetologists, July 7-12, 2010, Providence, RI.
<http://www.asih.org/annualmeetings>

APS Intersociety Meeting: Global Change & Global Science: Comparative Physiology in a Changing World, August 4-7, 2010, Westminster, CO.
<http://www.the-aps.org/meetings/aps/comparative/index.htm>

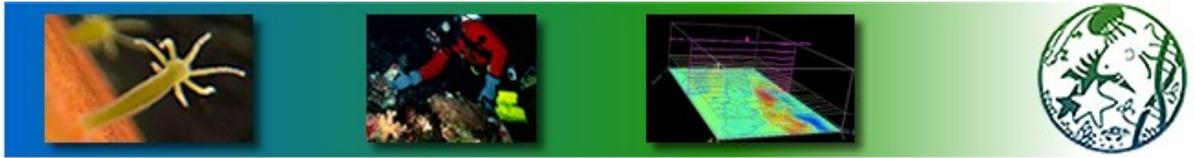
8th International Congress of Comparative Physiology & Biochemistry (ICCPB 2011), June 1-5, 2011, Nagoya, Japan.

7th Congress of the Federation of Asian and Oceanian Physiological Societies (FAOPS), September 11-14, 2011, Taipei, Taiwan.
<http://conf.ncku.edu.tw/faops/>

37th International Congress of Physiological Sciences, Birmingham, UK, July 21-26, 2013.
<http://www.iups2013.org/>

For other meetings, consult the web sites for SICB

(<http://www.sicb.org/meetings/other.php3>), the **American Physiological Society** (<http://www.the-aps.org/meetings/related/index.htm>), and the **International Union of Physiological Sciences** (<http://www.iups.org/>).



Message from the Secretary

Allen Gibbs

Congratulations to this year's Bartholomew Award winner (Roberto Nespolo). Congratulations and thanks to the new editors of *PBZ*, Katie Gilmour and Trish Schulte. Special thanks to Jim Hicks for his past years of service as editor of *PBZ*, and his upcoming years of service as the new chair of DCPB.



Anna Ahn will take over as DCPB divisional secretary at the end of the Seattle meeting. I especially want to thank her for taking over and wish her the best of luck.

Upcoming Elections: Candidates Needed

There will be two elections for DCPB officers in 2010. Kathy Dickinson will be stepping down as Program Officer at the end of the Salt Lake City meeting, and we will also need to elect Jim Hicks' ultimate replacement, a Chair-Elect. The latter will serve as Chair-Elect starting at the end of the Salt Lake City meeting, then take over as Chair in 2012 for two years. If you are interested in running, please contact me, and I will forward this information to the Nominating Committee.

Message from the Graduate Student Representative

Jenny Ro

Hi DCPB students and post docs!

The annual SICB meeting is coming up soon, Jan 3-7, 2010 in Seattle, WA. The deadline for registering for the meeting is Nov. 30, 2009. Also deadlines for numerous financial support awards for SICB student members are coming up. Please see "[Awards and Scholarships for Students](#)" page for more information.

Are all DCPB students going to be academics?

In response to suggestions from students and post-docs, the student- postdoctoral affairs committee is currently organizing a workshop entitled "Careers outside of traditional academia." We have tentatively confirmed panelists; a representative from Oxford Journal, a former KNAUSS fellow on Capital hill, a person from a field museum, a person from an environmental non-profit sector, a NSF official and possibly a scientist from pharmaceutical company. If you have preferences on what should be discussed during the workshop, please contact me at ro.25@osu.edu.

For those of you who are looking for funding opportunities, here are some suggestions.

Sigma Xi Grants-in-Aid

This program awards up to \$1,000 to students from all areas of the sciences and engineering. Astronomy and vision-related research allow for grants up to \$5,000 and \$2,500 respectively. Visit:

<http://www.sigmaxi.org/programs/giar/index.shtml>

Traveling Fellowships from The Company of Biologists

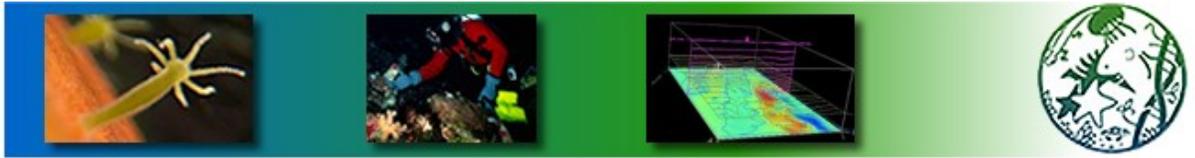
Four journals from the Company of Biologists (*Development*, *Journal of Cell Science*, *Journal of Experimental Biology*, and *Disease Models and Mechanisms*) offer fellowships of up to US\$3750 (or £2500) to Graduate Students and Postdocs wishing to make collaborative visits to other laboratories. There is no restriction on nationalities. Upcoming applications are due December 31.

Visit: <http://www.biologists.com/index.html>

For those of you who are looking for post doctoral positions, here are some opportunities.

Plant Physiological Ecology in Panama

The candidate will be employed by the University of Wisconsin-Milwaukee ([jobs](#)) and will be



stationed at the Smithsonian Tropical Research Institute in Panama. For more information, please contact [Dr. Stefan Schnitzer](mailto:schnitzer@uwm.edu) (schnitzer@uwm.edu).

Review of application starts on Oct. 31 and the job will start on Jan. 15, 2010.

Mosquito Physiological Ecology

Two-year NIH-funded postdoctoral position is available to investigate transcriptional components of photoperiodic diapause in the invasive and medically important mosquito *Aedes albopictus*. The position is part of a collaborative project between the Armbruster and Elsik labs in the Department of Biology at Georgetown University. Contact Peter Armbruster (paa9@georgetown.edu) for more information.

Insect Physiological Ecology

A postdoctoral position is open for studying resource allocation to life history traits by butterflies in variable environments, with Carol Boggs at Stanford University and Rocky Mountain Biological Laboratory. For more information contact Carol Boggs (cboggs@stanford.edu).

Evolutionary Theory of Population and Community Dynamics

A group of faculty from Yale University is seeking postdoctoral associate(s) to work on the evolution and ecological consequences of plasticity in life history and other traits affecting evolutionary and ecological interactions. Applicants must have previous experience developing mathematical models; individuals with experience using adaptive dynamics, game theory, or evolutionary quantitative genetics are especially encouraged. Contact Stephen Stearns (stephen.stearns@yale.edu) for more information.