



## Division of Comparative Physiology and Biochemistry

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### DCPB Officers & Representatives

**James Hicks**  
Chair 2010-2012

**Donald Mykles**  
Chair-Elect 2011-2012

**Joseph Williams**  
Past Chair 2010-2012

**Kristin O'Brien**  
Program Officer 2011-2013

**Anna Ahn**  
Secretary 2010-2012

**Chris Slay**  
Student/Postdoc Representative  
2011-2014

**Patrick Walsh**  
ICCPB & IUPS Representative

**Charles E. Booth**  
ICB Editorial Board Representative



### Message from the Chair

*Jim Hicks*

The spring Newsletter is organized in the traditional format. First, the Salt Lake Meeting in January had over 1100 abstracts and was the 3<sup>rd</sup> largest meeting after Boston and Seattle. DCPB members submitted 120 contributed papers, covering 10 oral sessions over all four days of the meeting and several poster sessions distributed over three days. Second, join me in congratulating our Bartholomew award winner, Bob Cox (see details below). Now is the time to nominate a young scientist for the 2012 Bartholomew Award. In addition, join me in congratulating our two winners of the Best Student Presentations, Kevin Kohl and Jose Crespo, both from the University of Utah. We also highlight a variety of exciting meetings that will be taking place in 2011, and will preview our meeting in Charleston in 2012. We describe a recent modification of our Divisional Bylaws regarding Best Student Presentations to be consistent with the Society bylaws. Finally, it is time to fill the position of Secretary for DCPB and we have listed two individuals who have been nominated.

### 2011 Bartholomew Award Recipient

Robert Cox was the winner of the 2011 George A. Bartholomew Award. Named in honor of Professor George A. Bartholomew, this award is given annually by the Division of Comparative Physiology and Biochemistry to a young investigator for distinguished contributions to comparative physiology and biochemistry or to related fields of functional and integrative biology. Dr. Cox is a postdoctoral fellow at Dartmouth College. The entire Society congratulates Dr. Cox for his outstanding achievements and this well-deserved recognition. The title of Bob's talk was **"Two genders, one genome: an integrative perspective on sexual conflict and the costs of reproduction."**



Bob Cox

On behalf of the DCPB, I want to thank the Bartholomew Award Committee: Stephen Secor (chair), Douglas Altshuler, Chris Guglielmo, Adam Summers, and Art Woods. In addition, the Division wants to extend a heartfelt thank you to Sable Systems International, which increased their cash award to \$1500. John Lighton



John Lighton, Sable Systems International

and Robin Turner continue their long-term support of the DCPB and the Society. Their generosity is much appreciated.

### SICB George A. Bartholomew Award: A Call for Nominations 2012, Charleston

*"It is the intact and functioning organism on which natural selection operates. Organisms are therefore the central element of concern to the biologist who aspires to a broad and integrated understanding of biology."*  
GA Bartholomew, 1987

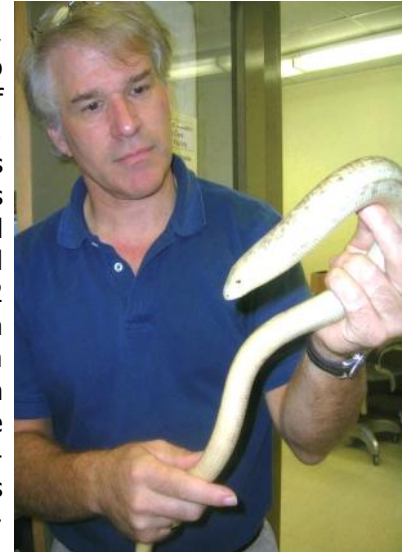


George A. Bartholomew

Each year the Division of Comparative Physiology and Biochemistry awards a prize to a young investigator for distinguished contributions to comparative physiology and biochemistry or to related fields of functional and integrative biology. The formal title for this award is "The George A. Bartholomew Award." Eligible candidates are those who have completed their doctorate within the past seven (7)

years (2004 or later) and who are members of the SICB. Candidates for this award may apply themselves or they may be nominated; all candidates will be evaluated equally. Applicants should submit a short description of their work, selected reprints, and a curriculum vitae to Dr. Stephen Secor, the Chair of the Award Committee. Three letters of recommendation should be solicited from colleagues who know of the nominee's work. Nominators must arrange for these same materials to be

sent to Dr. Secor, except with only two additional letters of recommendation. The person chosen as the recipient of this award will be invited to present a special address at the 2012 SICB Meeting in Charleston, South Carolina. In addition to a cash prize, the recipient will be reimbursed for expenses incurred while attending the meeting. Please send nominations for this award to Dr. Stephen Secor, [ssecor@biology.as.ua.edu](mailto:ssecor@biology.as.ua.edu). The deadline for nominations is Friday, **26 August 2011**.



Stephen Secor, Chair, Bartholomew Award Committee

### Oral Presentation and Poster Presentation Award Winners

This year the DCPB student awards were named in honor of **Dr. David R. Jones (1941-2010)**. The following is an excerpt written by Dr. William K. Milsom, Chair of Zoology at the University of British Columbia.

Dave Jones, Killam Research Scholar and Professor Emeritus in the Department of Zoology at the University of British Columbia, died on 19th of November, 2010 after a long battle with congenital emphysema. Dave's struggle with emphysema was similar to one of Verdi's operas; it would crescendo from time to time, the raucous laughter would pre-



David R. Jones 1941-2010



vail, the wicked pen would correct the smallest grammatical imprecision, and then for a while it would soften and simmer. He was so irrepressible that we assumed him to be, and certainly wished him to be, immortal. Now, after a diminuendo, we are left with fond memories and an amazing legacy.

Dave was born and raised in Bristol, England where he attended Bristol Cathedral School. He did his undergraduate training at the University of Southampton where he also began his PhD under the supervision of Graham Shelton. After two years there he followed Graham to the University of East Anglia, where he completed his PhD on "The cardiovascular adjustments to submergence in amphibians" in 1965. He then moved to Bristol University as a Lecturer. After three years at Bristol he was awarded tenure and promotion. Subsequently, he was recruited to UBC and was appointed in the Zoology Department at UBC in 1969. Dave retired in 2006 but only in the legal sense (mandatory retirement was still in effect) and continued his research as a fully funded Professor Emeritus and Killam University Professor.

Over his research career, Dave worked on every class of vertebrate and a few invertebrates to boot. These studies were as wide-ranging as the species he worked on, although the primary emphasis was on diving, exercise and hemodynamics. During his career, Dave trained 17 MSc students, 16 PhD students (two of whom won the Cameron Award of the Canadian Society of Zoologists for the best PhD thesis submitted in their graduating year in Canada) and 16 Post-Doctoral Fellows. With them and other colleagues he published over 200 research pa-

pers and reviews in primary journals.

Along the way, Dave made major contributions in numerous sub-disciplines of our field. He was the first to identify and clearly define the role of nasal receptors, chemoreceptors and baroreceptors in diving responses. Indeed, he was the first to demonstrate the existence of baroreceptors in non-mammalian vertebrates. He was the first to obtain recordings of heart rate and blood pressure during flight in birds. He pioneered the application of wave transmission theory to cardiovascular systems in non-mammalian vertebrates. He had a pioneering role in demonstrating the functions of the central nervous system (cognition) and the endocrine system (particularly the catecholamines) in simulated versus voluntary diving in birds and mammals. Dave was also amongst the first to ap-



ply NMR technology and micro-processor controlled real-time monitoring of physiological variables to diving studies. His most current work was as varied as ever. One series of studies focused on energetics and thermoregulation in giant leatherback turtles, a study that contributed to our understanding of the dramatic population decline of this charismatic species. Another focused on the role of the bulbus arteriosus in blood pressure regulation in all the world's fishes.

As a result of his activities, Dave has received numerous awards and distinctions. Several of note include the Fry Medal of the Canadian Society of Zoologists, the Killam Research Prize, the Flavelle Medal of the Royal Society of Canada, the Scholander Lecture and the August Krogh Lecture of the Com-



parative Physiology Section of the American Physiological Society, Fellowship in the Royal Society of Canada, and the Order of Canada.

Dave was equally well-known for his love of the arts, his fascination with cathedrals (during his time as a Distinguished Scholar in Residence at the Peter Wall Institute for Advanced Studies he was working on a treatise on the English Cathedral) and for his informal and more erudite side; the side that included his wit and spontaneous one-liners, his intellect and insight. His laughter was unique and contagious and will echo in our minds whenever we think of him. Dave cites his family as his greatest achievement and is survived by his wife Val, daughters Melanie and Vivienne, and grandchildren Rowan, Hailey and Gareth.

### The David R. Jones Award for Best Oral Presentation: Kevin Kohl



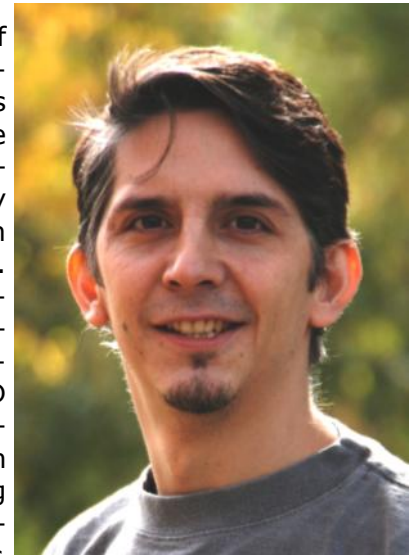
Kevin Kohl

DCPB selected Kevin Kohl as the winner of the best oral presentation competition at the 2011 SICB annual meeting in Salt Lake City. Kevin completed his B.S. in 2009 in Wildlife Ecology at the University of Wisconsin-Madison. Kevin is currently working on his PhD at the University of Utah, and was awarded a prestigious Graduate Research Fellowship from the National Science Foundation in

March 2010. His general area of interest lies in digestive physiology and ecology, as well as the symbiotic relationships between intestinal microbes and hosts. The title of Kevin's talk was "**Physiological and evolutionary responses of digestive enzymes to toxin-rich diets.**" Feel free to send a congratulatory note to Kevin ([kevin.kohl@utah.edu](mailto:kevin.kohl@utah.edu)).

### The David R. Jones Award for Best Poster Presentation: Jose G. Crespo

The DCPB winner of the best poster presentation for 2011 was Jose G. Crespo. Jose graduated with a Licenciatura in Biology (the Argentinean equivalent of a M.S. degree) from the University of Buenos Aires in 2005. Jose entered into the PhD program at the University of Utah in 2006. After working for a year in the Biomedical Informatics department, he then transferred to the Department of Biology where he currently works with Dr. Neil Vickers. Following his interests in insect physiology and behavior, Jose's research focuses on understanding how the central nervous system of insects interprets sensory information, primarily olfactory, and how different behaviors are elicited. The title of his poster was "**Olfactory modulation of pre-flight shivering behavior in male moths.**" Please congratulate Jose for his achievement ([jose.crespo@utah.edu](mailto:jose.crespo@utah.edu)).



Jose G. Crespo

### Judging Student Presentations

Organizing the Best Student Presentation awards is a Herculean task, and the division wants to thank David Tapley (Salem State College) for his fantastic work. David worked hard to make sure the judging went smoothly at the meeting and afterwards. David's ef-



David Tapley



forts and the efforts of the many judges toward providing critical feedback and rewards for excellence for our young scientists are very much appreciated.

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## Message from the Program Officer

*Kristin O'Brien*

### Salt Lake City, 2011

While the weather outside was cold and gray, the atmosphere inside the SLC Convention Center was warm and invigorating with 1,123 scientific presentations, including approximately 130 representing the breadth of comparative physiology and biochemistry.



Kristin O'Brien

Four symposia were sponsored this year by DCPB, including **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 **Environmentally-Cued Hatching across Taxa: Embryos Choose a Birthday**, organized by Karen Martin, Karen Warkentin, and Richard Strathmann. Members who resisted the urge to hit the nearby world-class ski slopes and stayed until Friday were treated to **Environment, Energetics and Fitness: A Symposium Honoring Donald W. Thomas**, organized by Michal Wojciechowski, Murray Humphries, and Berry Pinshow; and **A Synthetic Approach to the Response of Organisms to Climate Change: The Role of Thermal Adaptation**, organized by Mike Sears. Conversations stimulated by these symposia were continued at the Society-wide social, which featured free drinks

and appetizers- a welcome new tradition.

### Charleston, 2012

Be sure to mark your calendars for the next SICB meeting to be held in balmy, beautiful Charleston, S.C. January 3-7, 2012. DCPB will sponsor four scintillating symposia which include: **Novel Methods for the Analysis of Animal Movement: Spatial and Temporal Structure, Across Scales**, organized by Douglas L. Altshuler, Michael Dickinson, and Andrew Straw; **Comparative Proteomics of Environmental and Pollution Stress** organized by Lars Tomanek; **Pushing the Boundaries of Phenotypic Variation: The Mangrove Rivulus, *Kryptolebias marmoratus*, an Exemplar of Integrative Biology** organized by Edward Orlando, Ryan Earley, and Brian Ring; and **Biology of Sea Snakes: Tribute to William Dunson and Harold Heatwole** organized by Harvey Lillywhite and François Brischoux.

Thanks very much to former DCPB Program Officer Kathy Dickson not only for planning these symposia but also for her mentorship; her guidance has certainly eased my transition to program officer. Kathy would like to extend special thanks to all the other divisional program officers, especially the Crustacean Society program officer, Sherry Tamone, and SICB POs Brian Tsukimura and Ed Rosa-Molinar, for assistance in organizing the meetings. And thanks to all members who served as session chairs in Salt Lake City.

### Call for symposia for San Francisco, 2013

There is still time to submit your ideas for symposia for our 2013 meeting in San Francisco, CA. Please feel free to discuss ideas with me ([kmobrien@alaska.edu](mailto:kmobrien@alaska.edu), 907-474-5311) at any time. The deadline for submission of symposium proposals is August 19, 2011. Information is available on the SICB website (<http://www.sicb.org/meetings/2013/callsymp.php3>).



There are several upcoming meetings that may be of interest to DCPB members:

**50th Annual Meeting of the Canadian Society of Zoologists**, Ottawa, May 16-20, 2011. <http://www.csz2011.uottawa.ca/e/>

**NHLBI Mitochondrial Biology Symposium**, Bethesda, MD, May 16-17, 2011. <http://www.NHLBImitochondrialsymposia.org>

**8th International Congress of Comparative Physiology and Biochemistry (ICCPB)**, Nagoya, Japan, May 31- June 5, 2011. <http://www.iccpb2011.com/>

**The Crustacean Society summer meeting**, Honolulu, HI, June 6-9, 2011. <http://web.vims.edu/tcs/?svr=www>

**Advances in the Cellular and Molecular Biology of Angiogenesis**, Birmingham, UK, June 27-29, 2011. <http://www.biochemistry.org/Conferences/AllConferences/tabid/379/View/Conference/Filiter/40FC/MeetingNo/SA123/Default.aspx>

**Society for Experimental Biology Annual Main Meeting**, Glasgow, Scotland, July 1-4, 2011. <http://www.sebiology.org>

**Joint Meeting of Ichthyologists and Herpetologists**, Minneapolis, MN, July 6-11, 2011. <http://www.asih.org/annualmeetings>

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

**Functional Genomics and Systems Biology**, Hinxton, Cambridge, UK, Nov. 29 – Dec. 1, 2011. [https://registration.hinxton.wellcome.ac.uk/display\\_info.asp?id=231](https://registration.hinxton.wellcome.ac.uk/display_info.asp?id=231)

**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

Anna Ahn

Hello! Salt Lake City was again a wonderful meeting -- one of my favorites! I hope you enjoyed it too.

I would like to welcome Kristin O'Brien and Chris Slay as our new Divisional Program Officer and Student/Postdoctoral Affairs Committee representative, respectively. Kathy Dickson, the out-going Program Officer, deserves a huge thank you for her years of service. She was very helpful to me, personally, as I transitioned into my position and she worked extremely hard to organize our division's sessions and symposia. I enjoyed getting to know her in Seattle and Salt Lake City, even though we both live in southern California!

As always, if you have any ideas for additional fun and/or informational pieces to include in the Fall Newsletter or material for the DCPB Researcher's database (<http://>



Anna Ahn



[sicb.org/divisions/DCPB/researchers.php3](http://sicb.org/divisions/DCPB/researchers.php3)), please do not hesitate to contact me ([aahn@hmc.edu](mailto:aahn@hmc.edu)).

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## Message from the Student/Postdoctoral Representative

*Chris Slay*

Greetings DCPB graduate students and post-docs,

I'd first like to introduce myself as your new DCPB Graduate Student and Postdoctoral Representative. With my tenure as such extending through January of 2014, I certainly look forward to plenty of fruitful interactions with the Division's graduate students and postdocs. On that note, I'd like to invite all of you to contact me anytime ([cslay@uci.edu](mailto:cslay@uci.edu)). I'm particularly interested in hearing your questions, comments, and concerns regarding either the DCPB or the Student/Postdoctoral Affairs Committee (SPDAC), the committee responsible for planning events for students and postdocs at the Annual Meeting.

If you are aware of funding or employment opportunities that you would like to share with other students and postdocs via the semi-annual newsletter, again, don't hesitate to contact me.

In the meantime, let me remind you of a few funding application deadlines which will occur before the next newsletter is published:

Company of Biologists/JEB Travelling Fellowship. Applications due April 30<sup>th</sup>. <http://jeb.biologists.org/misc/fellowships.dtl>

Sigma Xi Grants-in-Aid-of-Research. Applications due October 15<sup>th</sup>, March 15<sup>th</sup>. <http://www.sigmaxi.org/programs/giar/index.s.html>

SICB research grants (Grants in Aid of Research and Fellowships of Graduate Student Travel). Applications due mid-October. <http://sicb.org/drupal/>

NSF Graduate Research Fellowship. 1<sup>st</sup> and 2<sup>nd</sup> year graduate students typically eligible. Applications due early-to-mid-November. <http://www.nsfgrfp.org/>

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## Minutes of the DCPB Business Meeting, Jan. 4, 2011, Salt Lake City, UT

Divisional Chair Jim Hicks called the meeting to order at 5:16 PM.

Jim introduced Hannah Carey, from the PSS (Physiological & Structural Systems) cluster of the Division of Integrative Organismal Systems (IOS) of the NSF who had 3 main messages:

1. There is currently no FY11 budget for funding grants. As of now, the continuing resolution requires them to be conservative and go on a budget of 85% of last year's budget, which approximates 2008 levels. The FY10 funding rate was 10-16% depending on the panel.

2. Think about "big picture" organismal issues through the grand challenges program. Get involved and let the community know. This is a community-driven event. Think about the fundamental questions we think are important. Demonstrate the importance of biology to the public. The initiative can be found at [SICB/Challenges](#). IOS thinks the voice of organismal biology needs to be heard. This is not an attempt to change, fundamentally, how biology is done, but rather a way to let it be known that we are a diverse community. There will also be a discussion at the Experimental Biology meet-



ing in the spring.

3. NSF is developing a research coordination network (RCN), in which proposals work to fund new collaborations, new tools, and new directions into your area. Funds are given for training students in a lab and move the area forward in a certain topical area -- something that will bring people together. If you have any questions, feel free to send a brief synopsis (1-2 paragraphs or 1 page) to your Program Director at NSF who will be happy to provide input.

Jim gave the editor's report for Pat Walsh, who is the Co-Editor in Chief of the journal *Comparative Biochemistry and Physiology*. Pat sent his regrets for not being able to attend the meeting. Jim reported the journal stats for 2010, including 1370 manuscripts submitted, which represented a 9.9% increase over 2009. CBP had a 68.7% rejection rate and 26.6% acceptance rate. The impact factor was 2.196. The submissions were up and the quality of manuscripts continues to increase. If anybody would like to serve on the editorial board for CBP, please contact Pat Walsh ([pwalsh@uottawa.ca](mailto:pwalsh@uottawa.ca)) directly.

Jim introduced Trish Schulte, who with Katie Gilmour are the new co-editors of *Physiological and Biochemical Zoology*. This journal produces 6 issues per year. The journal webpage has migrated to JSTOR, where all issues from 1928-present are now available. Last year, 170 papers were submitted, which is a decline from the previous year due to a decrease in contributions from Americans. The acceptance rate was 21%, while 59% were rejected. PBS has an impact factor of 2.19, which compares to CBP-A (2.196), JCP-B (1.8), and JEB (2.7). The process of manuscript review begins with Trish & Katie reading each submitted manuscript to determine if it should be sent out for review, or desk rejected without review. In 2010, 37% of the manuscripts submitted were desk rejected, 23% were rejected following review, and the remainder were accepted or are still in revi-

sion. The time between acceptance to online publication has decreased from 160 days in 2008 to 88 days in 2010. The goals for 2011 include: 1. decreasing the time from acceptance to online publication, 2. maintaining the rejection rate, 3. increasing the impact factor. Stephen Secor is now a new associate editor. Trish gave a special thank you to Ted Garland and Jon Harrison. Trish plans to produce a focused issue in 2012, with a submission deadline late in 2011. This focused issue will include 3-4 invited review papers and primary papers in that area to be solicited via a call for papers. Jim thanked Trish for her service to the journal.

Jim welcomed our new Divisional Program Officer, Kristin O'Brien. Jim thanked Kathy Dickson, whose term ends in Jan 2011, noting that the Program Officer does the most work of everybody and needs extraordinary organizational skills. Jim then announced we should start thinking about 2013 symposia, which drive papers in the ICB journal and drive programming at the meeting. He noted that acceptance of papers from symposia presenters is not automatic in ICB.

Jim introduced the executive leadership of the Society: Rich Satterlie (President); Bob Roer (Treasurer), Brett Burke (Executive Director), and Brian Tsukimura (Program Officer). Brian reported that we especially need symposia from this division. Brian will work with Kristin and Jim to come up with forward-looking symposia. The papers from the symposia comprise the only content in the journal. The success of the journal is tightly correlated with the success of the society, because the society relies on the income provided by the journal. It all ties together.

Jim reminded us there will be an election in the spring for the DCPB Secretary. Also, Jenny Ro is the outgoing DCPB representative of the Student Postdoctoral Affairs Committee (SPDAC). Anybody who knows of a student or postdoc who would like to be more involved in the society should forward their





names to Jim Hicks. They can be foreign students, but they would be expected to attend the meetings.

Jon Harrison, the SICB Program Officer-Elect, made a few announcements. First, if anybody has any workshop ideas, please contact Jon directly ([j.harrison@asu.edu](mailto:j.harrison@asu.edu)). Jon also relayed a suggestion by Adam Summers, who believes SICB should institute 5-minute lightning talks. These shorter talks would make the meeting more inclusive by allowing more talks, especially since not all talks need 20 minutes. Trish Schulte commented that the lightning talks are a tough format, but it can work when the talks are selected or invited from the poster abstracts. Those speakers would present a lightning talk in addition to presenting a poster. Jon suggested perhaps the sessions might include just grad students, like at APS. Don Mykles thought the poster session could be expanded to 3 hours, but would have to reduce the number of oral presentations. We would also want to avoid overlapping symposia with the poster sessions, because students are required to stand by their posters. Trish noted the CSZ makes the poster session a part of the social. Joe Williams commented that the ability to buy lunch or refreshments at the poster session has been useful, so one does not have to leave to get food. Trish mentioned that CSZ includes food at every social, so it can be done. Please contact Kristin ([kmobrien@alaska.edu](mailto:kmobrien@alaska.edu)) or Jon ([j.harrison@asu.edu](mailto:j.harrison@asu.edu)) with any additional ideas.

Jim mentioned that nobody has applied for the travel grants for students, postdocs, and young faculty to attend ICCPB in Nagoya, Japan. Jim also requested that if you have any ideas, please feel free to send any officer an email. We want to hear from members.

Jon H. suggested that having this business meeting during a meal may serve to improve attendance of this meeting. Two journals could donate money to provide free food, which would attract students and/or free alcohol,

which would attract everybody.

With that, Jim adjourned the meeting at 6:08 PM.

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## Changes to the DCPB Bylaws

The following three changes are proposed to the DCPB Bylaws to comply with the SICB bylaws.

### Article XIII. Awards

#### A. Best Student ~~Paper~~ **Presentation** Awards

Two awards will be given in the Best Student ~~Paper~~ **Presentation** competition at the Annual Meeting, one for the best oral presentation and one for the best poster presentation. Each year the award will be titled in honor of a deceased distinguished comparative physiologist or biochemist. The name of the honored person will be selected by the DCPB Executive Committee. Each award will include a certificate and monetary prize. Undergraduate students and graduate students who have not yet been awarded the PhD are eligible for the award, as are new PhDs who have received the degree no more than 12 months prior to the meeting. The work must be original and must be carried out principally by the student presenting the paper or poster. A student who applies must be a member of the Division of Comparative Physiology and Biochemistry. In any one year, a student can enter either the oral or poster competition. ~~A student awarded either the top DCPB poster or talk prize is not eligible for future DCPB student presentation contests.~~ The DCPB Chair will appoint a DCPB member to chair the student competition and, in consultation with that member, will select the other judges.

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## Candidates for Election

### Candidates for Secretary

This year, we have two candidates for the position of DCPB secretary. The election will be held later this spring, so please keep your eyes out for the email from SICB. Good luck to the outstanding candidates.

#### Jason Blank



(2009-Present)

**Current Position:** Assistant Professor of Biological Sciences, California Polytechnic State University, SLO

**Education:** B.S. Duke University (1996); Ph.D. Stanford University (2006)

**Professional Experience:** Postdoctoral Researcher/Fellow, University of California Irvine (2006-2008); Assistant Professor of Biological Sciences, California Polytechnic State University, SLO

**SICB Activities:** Member of Division of Comparative Physiology and Biochemistry since 1999, Member of Division of Comparative Biomechanics.

**Other Memberships:** American Physiological Society; American College of Sports Medicine

**Research Interests:** Comparative and applied exercise physiology, particularly

muscle plasticity in different organisms and under different environmental and dietary influences.

**Statement of Goals:** I began attending SICB meetings early in my graduate student career and have appreciated the feeling of community among the comparative biologists at SICB meetings. I welcome the opportunity to contribute to DCPB and to the society if I am elected secretary. I am particularly interested in promoting use of the SICB Digital Library or other venues for sharing teaching resources such as lab exercises and homework problem sets within the division and society.

#### Richard Londraville

**Current Position:** Professor of Biology, University of Akron, Akron, OH

**Education:** B.S. Marine Biology, Long Island University, Southampton Campus (1987); M.S. Zoology, University of Maine, Orono (1989); Ph.D., University of Maine, Orono (1994).

**Professional Experience:** Postdoctoral Research Associate, Hopkins Marine Station, Stanford University (1994-1996); Assistant Professor of Biology, Univ. Akron (1996-2002); Visiting Professor Stone Research Laboratory, Ohio State University (2005); Interim Chair of Biology, Univ. Akron (2005-2006); Visiting Scientist, Lerner Research Institute, Cleveland Clinic (2006); Associate Professor of Biology, Univ. Akron (2002-2009); Professor of Biology, Univ. Akron





(2009-present).

**SICB Activities:** Member of Division of Comparative Physiology and Biochemistry since 1989, Member of Division of Comparative Endocrinology; Attended almost 20 annual SICB meetings over the years.

**Other memberships:** American Physiological Society

**Research Interests:** The big picture question that pushes my lab is how protein evolution can influence evolution of organisms. We have spent most of our effort looking at the evolution of lipid metabolism, and most of the time we work with fishes. We are particularly curious about the interaction of body temperature and lipid metabolism. Since 2000, almost all of our effort has gone toward understanding the function of leptin in vertebrates. Leptin is a small protein hormone that influences how lipid is deposited and how it is burned, as well as many other physiological axes (reproduction, bone density, etc.). Although tens of thousands of papers have been published on leptin (literally), very few focus on its influence on how organisms respond to their natural environment. My students are currently pursuing that question using zebrafish, carp, and bowhead whales.

**Goals Statement:** In addition to soliciting ideas from our members, and working with the SICB membership to construct an excellent program, I would pursue the idea of sponsoring a student-led symposium at each meeting. I grew up as a scientist in SICB, and have now been a member for over 20 years. I still see SICB as one of the most student-friendly societies for anyone who does the type of research that we do. As secretary, I would like to enhance and nurture this traditional strength of SICB. My goal would be to recruit young scientists to the both DCPB and SICB, and in doing so help protect the future of the society.