



Division of Comparative Physiology & Biochemistry

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DCPB Officers & Representatives

Stephen Secor
Chair 2014-2016

Donald Mykles
Past Chair 2014-2016

Jonathon Stillman
Program Officer 2013-2015

Deborah Lutterschmidt
Secretary 2014-2016

Natalie Pitts
*Student/Postdoc Representative
2014-2017*

Message from the DCPB Chair

Stephen Secor (Chair.DCPB@sicb.org)



Stephen Secor, University of Alabama

Greetings from Tuscaloosa, Alabama. Can you believe that the University of Alabama had three snow days this year? Now try explaining the phenomenon of global warming to the local residents while there are several inches of snow on the ground. My tenure as DCPB Chair started on the last day of the SICB meeting in Austin. No formal inauguration or crowning, just Don Mykles telling me that there was an Executive Committee meeting that day and that I had better be there. My thanks to both Don and Rich Lon-

draville for serving, respectively, as Chair and Secretary for the past two years. During the few months prior to Austin, I wrote to Don for guidance on what I had to prepare for as Chair. He has been a great mentor and will continue to be as Past-Chair (yes, he is still not off the hook yet). I enjoyed overlapping with Rich and feel very assured that Deborah Lutterschmidt, DCPB's new Secretary, will continue to keep us well organized and on track.

The SICB meeting this year was again a huge success with a near-record number of attendees (~1900, with more than a quarter that identified with DCPB) and abstracts (~1570), and with what has become a SICB trademark, a tremendous number of students attending and presenting, many supported by the Charlotte Mangum Student Support Program. The SICB Executive Committee report made note of the increasing attendance numbers and while other society meetings have been fairly stagnant in attendance, SICB is getting stronger each year. We are fortunate to have such a great group of people running the show.

The division sponsored three symposia at this year's meeting; 'Stress, Condition, and Ornamentation,' 'Methods and Mechanisms in Ecoimmunology,' and 'The Micro and Macro Nutrient Effects in Animal Physiology and Ecology,' and DCPB member talks and posters blanketed the entire meeting. These talks were highlighted by a wonderful presentation by this year's George Bartholomew Award winner, Daniel Warner, an assistant professor at the University of Alabama, Birmingham. This was the 21st year of the George Bartholomew Award and the Bart talk has become immensely popular with packed-house attendances. Once again, DCPB extends its gratitude to John Lighton and Robin Turner of **Sable Systems International** for their generous gift to the award winner.



Each year the George Bartholomew Award winner is selected from a pool of tremendously accomplished young scientists by a committee that includes previous Bart Award winners. I thank Art Woods (Chair of the committee), Sheila Patek, Adam Summers, Jonathon Stillman, and Marty Martin for their efforts this year on this committee; great job. I also welcome Sheila as the new Chair of the Bartholomew Award Committee. Both Art and Sheila presented ideas at the Austin DCPB Business meeting on ways to increase the exposure of the Bart Award winners.

Each year, DCPB names the student presentation competition in honor of an eminent physiologist who has recently passed. This year's award, the Graham Award for best student oral presentation was awarded to **Gina Lonati** (UNC-Wilmington) and the best student poster presentation was awarded to **Tushar Sirsat** (University of North Texas). I offer my sincere congratulations to these students for their excellent presentations and to all students that participated. The Division is grateful to Harry Itagaki for coordinating the judging of the student oral and poster presentations and to all Society members that served as judges - all 50 of you - Thank you!!! Harry will be stepping down as judging coordinator, so if anyone would like to step into his shoes for West Palm Beach, please let me know.

This spring we will be electing a new Chair-Elect and Program Officer. I want to thank Scott McWilliams who chaired the nominating committee that also included Les Buck and Jonathon Stillman for their efforts to solicit the nominations of two sets of excellent candidates: Inna Soklova and François Vézina for Chair-Elect, and Wes Dowd and Jason Podrabsky for Program Officer. The Chair-Elect will serve a one-year term (2015) before assuming the Chair position (2016-2017). The Program officer will serve two years starting in 2015. Both positions start and end on the last day of the annual meeting. Ballots for both positions will be sent out later in the spring, so watch for those ballots and please vote.

At the Austin business meeting, Don spoke of the financial support that DCPB is providing to the upcoming APS Intersociety Meeting 'Comparative Approaches to Grand Challenges in Physiology' to be held in San Diego October 5-8, 2014. DCPB is contributing \$9,000 to that meeting which will support three symposia. Also discussed was the proposal for the 2018 SICB meeting to be held in Orlando, Florida and support for the upcoming ICCPB meeting to be held in 2015 in Krakow, Poland. Ted Garland is serving as the representative of

DCPB for that meeting and they are currently asking for symposium proposals. In addition to the symposia at the APS meeting, the Division is also supporting six (!) symposia at SICB in West Palm Beach. The call is now out for symposium proposals for the 2016 meeting in Portland. Contact Sherry Tamone (ProgramOfficer@sicb.org) for information and to submit your symposium proposal.

I look forward to serving DCPB, so please contact me with your ideas, suggestions, and any questions (Chair.DCPB@sicb.org).

The DCPB's Jeffrey B. Graham Best Student Presentation Awards

Jeffrey Graham

This year the DCPB student presentation awards were named in honor of Dr. Jeffrey B. Graham (1941-2011). Jeff, a research physiologist at Scripps Institution of Oceanography, University of California San Diego (UCSD), died of cancer on 8 December 2011. For more than 40 years, Jeff's research focused on the evolution, comparative physiology and biology of fishes, with special interests in fish respiration and locomotion. Jeff was well known to members of the DCPB for his passion and enthusiasm for aquatic animals that "break the rules," from the four-eyed fish



of Panama to the mudskippers of Southeast Asia to pelagic sea snakes. He contributed to our understanding of endothermic tuna and lamnid shark physiology and the cardiovascular adaptations of sharks. Graham spent his entire professional career in San Diego, California, first at San Diego State University (SDSU), and, starting in 1978, at Scripps Institution of Oceanography (SIO). He was a valued mentor to many colleagues and his graduate students at both SDSU and SIO. A total of 11 students received a Ph.D. under his direction. At Scripps, he served as the Director of the Marine Biology Research Division and as Associate Director of the Center for Marine Biotechnology and Biomedicine. He was the interim Executive Director of the Birch Aquarium at Scripps from 2000 to 2002, and the monthly public lecture series that he started at the Aquarium is named in his honor. Jeff received a Pre-doctoral Fellowship at the Smithsonian Tropical



Research Institute in Panama, a John Simon Guggenheim Memorial Foundation Fellowship in 1987, and the Most Distinguished Alumni Award for 1975 from the College of Sciences and Alumni Association at San Diego State University. He was elected to Phi Beta Kappa at San Diego State University in 2001. Jeff published more than 165 scientific papers during his long career. His book "Air-Breathing Fishes: Evolution, Diversity, and Adaptation," which he initiated with the Guggenheim fellowship, was published in 1997 and remains the authoritative reference on air-breathing fishes. His dogged determination to construct and refine the ElasmotunaTron, a large swimming tunnel respirometer system, allowed comprehensive studies of thermoregulation, cardiovascular function, respirometry, and kinematics of tunas and lamnid sharks. It had to be taken to the fish, on board ship or to the National Marine Fisheries Service laboratory in Kewalo Basin, Hawaii, for these studies of live, swimming fishes. Among his many accomplishments, Jeff was also a talented painter, working with oils on canvas and board. Additional information can be found in tributes written by some of his past graduate students for the *Journal of Experimental Biology* ([click here for link to article](#)) and *Copeia* ([click here for link to article](#)).

As if putting an exclamation point at the end of his very successful career, the manuscript that Jeff was working on when he passed away was recently published in a Jan 2014 issue of *Nature Communications* (see full citation listed below). Jeff's manuscript, published posthumously through the efforts of his former students and colleagues, uses structural, behavioral, video, kinematic and pressure data to solve a 100-year-old mystery: Do polypterid fishes (bichirs and ropefish) use their spiracles, large paired openings on the top of the head, to breathe air? Bichirs and ropefish are air-breathing, freshwater fish with paired lungs that inhabit tropical lakes and swamps in Africa. Not only did Graham and colleagues show that spiracle-mediated breathing accounts for up to 93% of all air breaths in these basal ray-finned fishes, but these data also have fascinating implications for understanding the evolution of the vertebrate auditory system! Additional press releases associated with Jeff's most recent publication can be found [here](#) as well as on the Scripps Institution of Oceanography [website](#). In recognition of Jeff's contributions to our Division and his untimely passing, the DCPB is proud to present the winners of the 2014 Jeffrey B. Graham Best Student Presentation Competition.

Full article citation: Graham JB, Wegner NC, Miller LA, Jew CJ, Lai NC, Berquist RM, Frank LR, Long JA. 2014. Spiracular air breathing in polypterid fishes and its implications for aerial respiration in stem tetrapods. *Nature Communications* 5:3022. doi: 10.1038/ncomms4022.

Message from the DCPB Student Presentation Judging Coordinator

Harry Itagaki



Harry Itagaki, Kenyon College

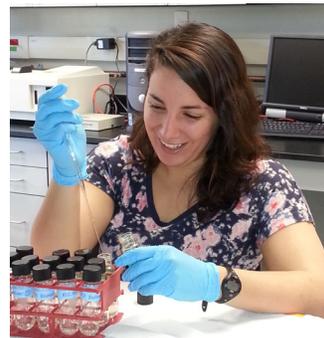
The Jeffrey B. Graham DCPB Student Presentation Competition at the Annual Meeting in Austin, Texas had a competitive group of 71 presentations and posters spread among 16 oral sessions and 3 poster sessions. The winners are:

Oral Presentation: Gina Lonati, University of North Carolina Wilmington for her talk: Nitrogen solubility related to lipid composition in toothed whale fats.

Poster Presentation: Tushar Sirsat, University of North Texas for his poster: Development of Endothermy in the Bobwhite Quail (*Colinus virginianus*).

Please help me in congratulating these two students. In addition, I'd like to express my sincere thanks to the 49 judges who helped judge the presentations and posters. Without your help, this would not have been possible. Thank you!

The Jeffrey B. Graham Award for Best Oral Presentation



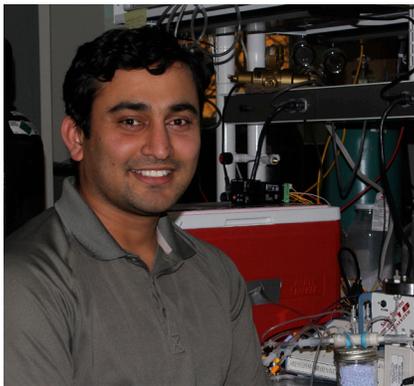
Gina Lonati, UNC Wilmington

The winner of the DCPB's Jeffrey B. Graham Award for best oral presentation is Gina Lonati. Gina received a B.A. in Biology from Bowdoin College in 2012, and is currently completing an M.Sc. degree at the University of North Carolina Wilmington with Dr. Heather Koopman. Gina is investigating the relationship between lipid composition and nitrogen solubility in the acoustic fats of toothed whales. These fats are used for echolocation but may cause the whales to be more



susceptible to decompression-related injuries due to their unique physiology. At the 2014 SICB conference, Gina presented results from three whale species, demonstrating that some species may be at a higher risk of developing these injuries than others based on phylogenetic differences in acoustic fat lipid composition.

The Jeffrey B. Graham Award for Best Poster Presentation



Tushar Sirsat

The winner of the DCPB's Jeffrey B. Graham Award for best poster presentation is Tushar Sirsat. Tushar received his MBBS in 2006 from Maharashtra University of Health Sciences, India. He is currently studying

the role of thyroid hormone in the development of endothermy in birds with Dr. Ed Dzialowski at the University of North Texas. At SICB 2014, Tushar presented his research on Bobwhite quail, where he showed that obtainment of endothermy is dependent upon maturation of tissue metabolic capacity as well as the oxygen delivery system.

Call for Nominations - 2015 Bartholomew Award

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 and who are members of 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 curriculum vitae to Dr. Sheila Patek, 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. Patek, 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 2015 SICB Meeting in West Palm Beach, FL. 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. Patek at Sheila.patek@duke.edu. **The deadline for nominations is Friday, 22 August 2014.**

Message from the DCPB Program Officer

Jonathon Stillman (DPO.DCPB@sicb.org)



Jonathon Stillman, Romberg Tiburon Center, San Francisco State University

Thanks to everyone who participated in the 2014 annual meeting in Austin. The meeting was a great success, despite the weather-inflicted travel woes of many who could not attend. DCPB supported the SICB-wide symposium "Epigenetics: Molecular Mechanisms through Organismal Influences," sponsored the symposium "The micro and macro of nutrient effects

in animal physiology and ecology," and co-sponsored the symposia "Stress, condition and ornamentation," and "Methods and mechanisms in ecoimmunology." Bartholomew Award winner Dan Warner presented a terrific talk integrating lab and field studies across biological disciplines and life history stages to understand the evolutionary physiology of life history in reptiles. If you want to nominate an early Ph.D. integrative biologist for the Bartholomew Award, see the Call for Nominations in this Newsletter as well as the guidelines posted on the [SICB Awards, Scholarships and Lectures website](#).

Looking warmly ahead to the 2015 meeting in West Palm Beach, Florida, Jan 3-7 (<http://www.sicb.org/meetings/2015/>). DCPB is co-sponsoring six symposia, including "Towards a General Framework for Predicting Animal Movement Speeds in Nature" organized by Robbie Wilson, "Integrative Biology of the Crocodylia" organized by Valentine Lance, "Leading Students and Faculty to Quantitative Biology Through Active Learning" organized by Laura Miller and Lindsay Waldrop, "Physiology in Changing Landscapes: An Integrative Perspective for Conservation Biology"



organized by Christine Madliger, Glenn Crossin and Oliver Love, "*Neurohormones, Brain and Behavior: a Comparative Approach to Exploring Rapid Neuroendocrine Function*" organized by Rebecca Calisi and Colin Sandanha, and "*Chemicals that Organize Ecology: Towards a Greater Integration of Chemoreception, Neuroscience, Organismal Biology, and Chemical Ecology*" organized by James Murray and Russell Wyeth. If you are interested in submitting papers in a complimentary session to any of these symposia, you might want to contact the organizers.

Even further ahead, now is the time to start thinking about organizing a symposium for the 2016 Annual Meeting in Portland, Oregon. Symposia are the lifeblood of SICB and the SICB journal *Integrative and Comparative Biology*. Symposia are fun to organize, provide an opportunity to hear a synthesis of topics that are of broad interest, and are a great way to establish new connections and collaborations within and outside of SICB. Done properly, symposia can even help to define your field, or an exciting new direction for your field. Symposia that are prospective (i.e., forward looking), integrative across disciplines, and are broadly inclusive of biologists across demographics (gender, diversity), career stages (student – professor), and geography (national-international) are likely to receive the most traction from SICB and funding agencies. The deadline for submitting symposium proposals is August 30, 2014 (<http://sicb.org/meetings/2016/callsymp.php>), but you should feel free to start sooner than that and discuss your symposium ideas with the DCPB Program Officer (yours truly) and the SICB Program Officer, Dr. Sherry Tamone (ProgramOfficer@sicb.org).

OTHER DCPB/SICB SUPPORTED MEETINGS

The next quadrennial APS Intersociety meeting in comparative physiology will be October 5-8, 2014 at the Town and Country Resort Hotel and Convention Center in sunny San Diego, California. This meeting will draw comparative and evolutionary physiologists from around the world to present and discuss recent advances in animal physiology. The three-and-a-half day meeting will feature 15 symposia, 2 plenary lectures, 2 workshops, and multiple sessions for contributed abstracts as oral or poster presentations. This meeting will include the 2014 Scholander Award competition for young comparative physiologists, plus other trainee awards and activities. What fun!

Currently scheduled sessions:

Plenary Lectures

- Steven L. Chown, Monash University, Clayton, Australia
- Patricia M. Schulte, University of British Columbia, Vancouver, Canada

Concurrent Symposium Track:

Concurrent Symposium Track: Physiological Responses to Extreme or Changing Environments (organizers in parentheses)

- Physiological adaptations to extremes: providing novel animal models for investigating health and disease (Hicks and Wang)
- Cardiorespiratory physiology of vertebrate extremophiles (Meir and Scott)
- Overcoming a major physiological barrier: adaptation from saline to freshwater habitats (Charmantier and Lee)
- Responses to global change: Acclimatize, adapt or die (Hofmann, Kelly, Evans)
- Molecular and physiological features of animal diapause (Hand)

Concurrent Symposium Track: Evolutionary and Developmental Physiology

- Genomics in integrative and comparative physiology (Crawford)
- Diverse approaches in evolutionary physiology (Garland)
- Challenges from the very beginning: developmental physiology, epigenetics, and critical windows (Eme and Mueller)
- Evolution and developmental origins of endothermy (Owerkowicz and Dzialowski)
- New perspectives on the ecology and evolution of homeostasis (Martin and Woods)

Concurrent Symposium Track: Transport, Digestion, and Locomotion

- Frontiers in insect homeostasis – advantages and exploitation (Dow and Romero)
- Recent ideas and advances in comparative epithelial physiology (Tresguerres and Goss)



- Comparative gastrointestinal physiology: from genes to animal performance (German)
- Determinants of skeletal muscle diversity (Azizi and Hernandez)
- Linking behaviour and physiology in animal navigation and orientation (Smolka and el Jundi)

Workshops:

- Trainee workshop: Non-traditional career paths for comparative physiologists (Williams and Rees)
- The challenge of teaching physiology in a changing environment: innovations and resources (Ecay and Sweazea)

Other Activities and Events

- Scholander Award competition
- Daily poster sessions for presentations selected from abstracts
- Twelve sessions for oral presentations selected from abstracts
- Publisher and vendor exhibits
- Welcome reception
- Closing dinner and awards ceremony

Organizing Committee

Barney Rees (chair)	Scott Kirkton
Sinya Benyajati	Matt McHenry
Heidi Contreras	Holly Shiels
Peter Frappell	Jonathon Stillman
Greg Goss	Tobias Wang
Jon Harrison	Cassandra Williams

Participating Societies (partial list)

American Physiological Society
Society for Experimental Biology
Canadian Society of Zoologists
The Crustacean Society
Western Society of Naturalists
Society for Integrative and Comparative Biology
The Physiological Society
International Society for Neurochemistry
International Congress of Vertebrate Morphology
Australia and New Zealand Society for Comparative Physiology and Biochemistry

So, mark your calendars, tell your colleagues and students, and make plans to attend.

IMPORTANT DUE DATES:

Abstracts: July 9, 2014

APS Abstract and minority-based travel awards, poster competition, and Scholander Award applications: July 16, 2014

MARC travel award: Aug 15, 2014

Advanced Registration: Sept 5, 2014

Hotel Reservations: Sept 12, 2014

Visit the conference website [here](#) for more information.

SICB DCPB is supporting this meeting to offset conference fees, travel costs, and other items, and this meeting is very much open to SICB DCPB members. So, mark your calendars, tell your colleagues and students, and make plans to attend. Be ready to present your best work at this terrific, infrequent, international meeting for comparative and evolutionary physiology! (But of course, please also come to the annual SICB meetings!)

INTERNATIONAL MEETINGS THAT DCPB MEMBERS MAY BE INTERESTED IN:

The American Physiological Society Experimental Biology (EB) meeting in San Diego CA (April 26-30, 2014): <http://experimentalbiology.org>.

Fuelling the Fires of Life - A tribute to Bill Milsom at Carberry Tower, Edinburgh (24 - 27 June 2014): <http://sebiology.org/meetings/milsomfest/index.html>.

The Society for Experimental Biology (SEB) meeting at Manchester University UK (1 - 4 July 2014): <http://sebiology.org/meetings/Manchester/Manchester.html>.

The Brazilian Physiology Society will hold its first Pan American Congress of Physiological Sciences August 2-6 2014 in Iguassu Falls, Brazil (<http://www.panam2014.com/>) with a theme of "Physiology without Borders." Sponsors include physiological societies from Argentina, Brazil, Canada, Chile, Cuba, Mexico, the United States, as well as the Latin-American Association of Physiological Sciences.



The 5th International Symposium on the Physiology and Pharmacology of Temperature Regulation (PPTR) will bring together, in the heart of the world-famous Kruger National Park, scientists working on temperature regulation in various species across a broad range of themes. Skukuza, Kruger National Park, South Africa, 7-12 September 2014: <https://www.wits.ac.za/conferences/pptr2014>.

So, if you are looking for a lot of travel to exotic international destinations to hear all about comparative physiology, 2014 has a lot in store for you! Start early at EB and end in 2015 with SICB for 8 months of physiology conference bliss!

Message from the DCPB Student/Postdoctoral Affairs Committee Representative

Natalie Pitts (pittsn@rams.colostate.edu)



Natalie Pitts, Colorado State University

First of all I would like to say how honored I am to be serving as the student representative for DCPB. I truly enjoyed meeting the other representatives at our business meeting in Austin as well as the other student representatives at the Student/Postdoctoral Affairs Committee (SPDAC) meeting.

As was the case at the San Francisco meeting, the number of graduate students and postdoc's at the business meeting was sparse. As great as it would be to have more students at these meetings, I realize that they take place late in the evening when many of you are out catching up with old friends or perhaps networking with new professors. Given this, prior to the meeting in Florida I intend to set up a public Facebook group where students can post their suggestions and/or concerns for DCPB and I will speak on their behalf at the meeting. Following this I will use the same public forum in order to post how these suggestions/concerns were addressed at the meeting. If you have ideas about how this could be done or if you believe that a public forum other than Facebook would be more effective at achieving this goal, please contact me via email.

At the SPDAC meeting we discussed creating a Facebook page as well as a Twitter account so that students

can stay up-to-date on SPDAC throughout the year. These accounts will also be kept up-to-date during the Florida meeting so that students can stay connected and informed about SPDAC events and activities. This year the "developing a web presence" workshop received mixed reviews, the big complaint being that students wished the workshop had been more hands on and had walked you through the steps of setting up a website. Next year SPDAC is planning on revisiting the topic of "how to land your first job after graduate school," with a focus not only on academic career paths but also how to land government and private sector jobs. This year SPDAC also released a list of grants, awards, and fellowships for both students and postdocs that can be found at the following websites:

SICB Student-Postdoc Awards and Grants: www.sicb.org/students/

External Grants and Fellowships: www.sicb.org/grants/externalgrants.php

Message from the DCPB Secretary

Deborah Lutterschmidt (Secretary.DCPB@sicb.org)



Deborah Lutterschmidt, Portland State University

I am very pleased and excited to take over as Divisional Secretary, and I would like to first thank the DCPB members for electing me to this position. I would also like to sincerely thank Rich Londerville, our former DCPB Secretary, for his continued help in getting me up to speed in the duties of this position. I promise, Rich, the emails will subside soon!

Please join me in thanking Harry Itagaki for his dedicated efforts in managing and organizing the Best Student Presentation Awards competition for DCPB for the past two years. After another successful year, sadly, this marks the last year that Harry will be the Student Presentation Judging Coordinator. If any SICB member is interested in being the coordinator for the 2015 meeting in West Palm Beach, FL, please contact our Divisional Chair, Stephen Secor (Chair.DCPB@sicb.org). Finally, I would like to extend a special thank you to Kathryn Dickson, Secretary-Elect of SICB (and former Ph.D. student of Jeffrey Graham), for her gen-



erous assistance in preparing the remembrance for Dr. Jeffrey Graham, for whom the 2014 DCPB Best Student Presentation Awards are named.

I look forward to meeting many more of you during my term of office. If there is anything you would like to discuss or some news you would like announced to the DCPB membership, please don't hesitate to contact me at Secretary.DCPB@sicb.org. Thanks to all of our members for your continued support of the DCPB – I look forward to serving the division as Secretary.

Minutes of the DCPB Business Meeting held in Austin, TX on 4 Jan 2014 ([click here](#))

Spring Elections

We have two positions to elect this Spring: Chair-Elect and Program Officer. The Chair-Elect will serve a one-year term beginning at the conclusion of the 2015 West Palm Beach meeting. The Chair-Elect will then automatically serve a two-year term as Chair from 2016-2018 (current Chair is Stephen Secor) followed by a two-year term as Past Chair (currently Don Mykles).

The Program Officer will take over after Jonathon Stillman's term ends at the end of the 2015 annual meeting in West Palm Beach, Florida. The new Program Officer will serve a two-year term from 2015-2017. Each of these positions has two candidates. Ballots will be issued in May for these elections, so keep an eye out for the SICB Election email and please vote! Sincere thanks go to these outstanding candidates for their willingness to serve our division.

Candidates for DCPB Chair-Elect

Inna Sokolova



Inna Sokolova, Candidate for Chair-Elect

Current Position: Professor, Department of Biological Sciences, University of North Carolina at Charlotte, Charlotte, NC.

Education: B.S., Zoology, Parasitology, St. Petersburg State University, Russia (1991); Ph.D., Zoology, Zoological Institute of Russian Academy of

Sciences, St. Petersburg, Russia (1997); Postdoctoral Fellow, Division of Integrative Ecophysiology, Alfred-

Wegener Institute for Polar and Marine Research, Bremerhaven, Germany (1999-2001); Postdoctoral Fellow, Department of Integrative Biology, University of Guelph, Guelph, Canada (2001-2002).

Professional Experience: Assistant Professor of Biology, University of North Carolina at Charlotte, Charlotte, NC (2002-2007); Associate Professor of Biology, University of North Carolina at Charlotte, Charlotte, NC (2007-2011); Professor of Biology and Vice-Chair for Research, University of North Carolina at Charlotte, Charlotte, NC (2011-); Program Director in the Division of Integrative Organismal Systems of the National Science Foundation (2014-); Co-Editor-In-Chief, Marine Environmental Research (2012-); Contributing Editor, Marine Ecology Progress Series (2005-); Editorial Board Member, Comparative Biochemistry and Physiology, Aquatic Toxicology and Frontiers in Aquatic Physiology (2010-).

SICB Activities: Member (2003-); presenter at annual SICB meetings (2003-)

Other Memberships: American Physiological Society

Research Interests: Environmental physiology of marine invertebrates; physiological and biochemical adaptations to environmental variation and stress. I am particularly interested in understanding physiological mechanisms of the interactive effects of multiple stressors (such as temperature, hypoxia, ocean acidification and pollution) on marine organisms in environmentally realistic contexts and using integrative approaches to understand how changes at molecular and cellular levels affect fitness of an organism. I use bioenergetics as an integrative tool to link the stress-induced shifts in cellular and metabolic phenotypes to the fitness-related organismal and population-level consequences.

Goals Statement: Since my first SICB meeting in 2003, I am invariably impressed by the unique qualities of SICB and its annual meetings that combine top-level research and innovation, unparalleled enthusiasm for science and the friendly, tightly-knit atmosphere conducive to scientific exchange and networking among scientists of all ranks, disciplines and career stages. As division chair for DCPB, I will work to maintain and strengthen this tradition of scientific excellence, diversity and innovation. I will support organization of scientific sessions and workshops on cutting-edge and cross-disciplinary research approaches and innovative techniques, as well as symposia fo-



cused on timely topics and state-of-the-art findings in comparative biology. I will foster the role of SICB and its annual meeting as a platform for engaging the comparative biology community in discussions of the most urgent needs and promising future directions in the field. I consider active engagement of diverse groups of scientists including young researchers a key in ensuring that the division and the society will thrive for the years to come. Therefore, I will work on increasing diversity in the society; foster membership of early-career researchers, undergraduate and graduate students, and post-doctoral fellows in the society and their participation in the annual SICB meetings; work to maintain the atmosphere where they feel comfortable discussing their ideas and achievements with their more seasoned colleagues; organize career development workshops and mentoring for students and early-career scientists at SICB meetings; and actively engage them in peer-reviewing for the journals in which I play an editorial role (Marine Environmental Research, Marine Ecology Progress Series, Comparative Biochemistry and Physiology, Aquatic Toxicology and Frontiers in Aquatic Physiology). None of this can be effectively done without close collaborations with other divisions in SICB, and I will actively seek and promote such interactions through supporting joint symposia and workshops that cross the disciplinary boundaries and reflect the complex, multidisciplinary nature of modern comparative biology.

François Vézina



François Vézina, Candidate for Chair-Elect

Current Position: Professor of Biology, Université du Québec à Rimouski, Rimouski, Québec, Canada.

Education: B.Sc., Université du Québec à Rimouski, Québec, Canada (1995); M.Sc., Université de Sherbrooke, Québec, Canada (1998); Ph.D., Simon Fraser University, British Columbia, Canada (2004).

Professional Experience: Postdoctoral Research Fellow, Netherlands Institute for Sea Research (2004-2008); Assistant professor, Concordia University (2008)

SICB Activities: Member of Division of Comparative Physiology and Biochemistry since 2000.

Other Memberships: Société Québécoise pour l'étude biologique du comportement since 1996.

Research Interests: Avian energetics; phenotypic flexibility; body composition and metabolism; seasonal changes in phenotypes in resident and migratory species; physiological constraints associated with wintering, breeding and migration; carry-over effects; life-stage transitions and phenotypic compromises.

Goals Statement: I have been attending SICB meetings since the beginning of my research career. This has been highly beneficial in helping me meet top scientists in my field and in developing my network of collaborators. I also participated in workshops over the years, which helped in improving my science and finding a job. Now, as a young faculty, I try to give all of my students the chance to attend SICB meetings so they can also find their place in the scientific community. Therefore, I would like to work on developing measures to create opportunities for graduate students to attend the meeting, get involved in symposia, and become members of DCPB. As a Canadian, I would also encourage measures to help graduate students and postdocs from abroad attend the meeting.

Candidates for DCPB Program Officer

Wes Dowd



Wes Dowd, Candidate for Program Officer

Current Position: Assistant Professor, Department of Biology, Loyola Marymount University.

Education: B.S. Biology, Duke University (1999); M.S. Marine Science, Virginia Institute of Marine Science (2003); Ph.D. Ecology (Physiological Ecology emphasis), University of California, Davis (2009).

Professional Experience: Postdoctoral Scholar, Hopkins Marine Station of Stanford University (2009-2011); Assistant Professor, Department of Biology, Loyola Marymount University (2011-present).



SICB Activities: Member of Division of Comparative Physiology and Biochemistry since 2008. Judge of best student presentation contestants; Symposium speaker; chair for multiple sessions; ran for DCPB secretary in 2012.

Other Memberships: American Physiological Society; American Fisheries Society, Physiology Section; American Elasmobranch Society.

Research Interests: Research in my laboratory combines physiology, biochemistry (including proteomics), organismal biophysics, and behavior to understand the effects of environmental stress on coastal fishes and intertidal animals, especially mussels of the Genus *Mytilus*. We seek to answer two broad questions: 1. How do physiological mechanisms of environmental stress tolerance contribute to current patterns of differential species success, and what are the implications in the face of global change and species invasions? 2. How do inter-individual patterns of physiological variation within populations interact with small-scale patterns of environmental variation to contribute to larger-scale ecological and evolutionary trajectories?

Goals Statement: DCPB feels like my "academic home" and is a highlight of each winter. The DCPB Program Officer position is an excellent opportunity for me to serve my colleagues and to personally become more involved in the workings of the Society. I hope to build on our current momentum established by past Program Officers, sponsoring forward-looking symposia that bring together physiologists and biochemists of different stripes to identify and tackle the major issues in our field. I also look forward to the opportunity to encourage even greater Division participation by young DCPB members. I would consider implementing digital archives of DCPB talks for those of us (all of us!) who can't attend every talk we would like to see at the annual meeting. These archives (with the author's consent, of course) could serve as a valuable resource for teaching and for young scientists preparing for their first meeting. Encouraging new ways of interacting with the broader audience beyond SICB in order to reinforce the importance and societal relevance of our work would be a long-term goal of mine.

Jason Podrabsky



Jason Podrabsky, Candidate for Program Officer

Current Position: Professor and Chair of Biology, Portland State University

Education: B.S. Biology, Oregon State University (1993); Ph.D. Environmental, Population, and Organismic Biology, University of Colorado (1999); Postdoctoral Fellow, Hopkins Marine Station, Stanford University (2000-2003).

Professional Experience: Assistant and Associate Professor, Portland State University

SICB Activities: Member since 1996

Other Memberships: American Physiological Society,

Research Interests: Adaptation of fishes to extreme environments, physiological and molecular mechanisms of metabolic depression, anoxia tolerance, application of genomics and metabolomics to non-model organisms.

Goals Statement: I have always enjoyed SICB meetings. They are a great place for students and post-docs to network with more senior researchers and to establish career-long connections and friendships. I recently returned to SICB again, after a few years of forced absence due to teaching conflicts with the meeting time. I was happily surprised to see that the same energy and enthusiasm for comparative physiology that got me hooked as a student was still there to inspire my students. My goal as a program officer would be to continue the tradition of offering cutting-edge symposia that attract both students and senior researchers to the meetings. I would like to work with others to revisit the way that abstracts are categorized and scheduled so that symposia and concurrent sessions that would be of obvious interest to the same group of people overlap minimally.

