



Division of Comparative Physiology & Biochemistry

Contents

Message from the Chair.....	1
George Bartholomew Awardee.....	3
Message from the Student Presentation Judging Coordinator.....	3
Louis J. Guillette Jr. Best Student Presentation Awards	4
Call for 2017 Bartholomew Award Nominations	5
Message from the Program Officer ...	5
Message from the Student/Postdoc Affairs Committee.....	6
Message from the Secretary.....	7
Minutes from the Business Meeting ..	7
Elections	7

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Jason Podrabsky
Program Officer 2015-2017

Catherine Dayger
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Message from the DCPB Chair

Inna Sokolova, Chair.DCPB@sicb.org



*Inna Sokolova, University of
North Carolina at Charlotte*

Happy spring and warmest greetings from Charlotte, North Carolina! This letter marks the first year of my tenure as DCPB Chair, and I would like to begin it by extending my heartfelt thanks to our Past-Chair, Stephen Secor, for his excellent leadership and strong commitment to promoting the DCPB's scientific and educational goals, and to Deborah Lutterschmidt for her exem-

plary service as the DCPB's secretary and an outstanding job in keeping us organized and the Division's business affairs in order. Thanks are also due to our Student/Postdoctoral Affairs Committee representative, Natalie Pitts, whose term was completed this January, for serving as DCPB's liaison to the ever growing graduate students' constituency at SICB. I am also personally indebted to Stephen for his kindness and generosity with his time and knowledge in helping me understand the responsibilities and commitments of Chair, and learning more about the culture of the DCPB. This year we also warmly welcome Robin Warne as our new Divisional secretary and Catherine Dayger, the new student/postdoctoral representative for DCPB. I thank them for agreeing to serve and am looking forward to serving our Division in the next year as a part of the DCPB's competent and enthusiastic executive team.

This year's SICB in Portland, Oregon, was a great scientific and organizational success. The weather, perhaps, left something to be desired (what with the snow, rain and icy roads), but over 2000 attendees who braved the elements were well rewarded with an excellent scientific program (with a total of 1688 poster and presentations) as well as the wonderful atmosphere of Portland with its downtown walks, excellent coffee, restaurants and microbreweries. The DCPB was very well represented in this year's scientific proceedings of SICB. Close to 10% of all posters and talks of the meeting were delivered by DCPB members; this count likely underestimates the DCPB's contributions as it only includes those members who have selected DCPB as their primary affiliation. The opening plenary lecture at this year's SICB was also delivered by one of DCPB's own, Dr. Terrie Williams. The lecture focused on the



SICB Newsletter

Spring 2016 Issue

biology of big and what it costs to be a charismatic top-level predator. Dr. Williams presented her data on energetics of several top-level predators hunting on land and sea that showed great variability in energy costs of predation both within and between species, and discussed implications of this variability for ecological modeling and conservation efforts. The opening plenary lecture provided a great kick-start for the next four days of the meeting which covered a great diversity of topics in comparative and integrative biology.

The DCPB's tradition of excellence of the plenary George Bartholomew Award lectures was carried out in 2016 by this year's George Bartholomew Award winner, Vincent Careau, an assistant professor of Biology at the University of Ottawa, Canada. With indomitable energy and charisma (talk about the "energetics of personality!"), Dr. Careau presented his research that integrates behavioral ecology, quantitative genetics and ecological bioenergetics for studying adaptations and seeks to understand how the ecological and evolutionary interactions between behavior and physiology generate and maintain diversity of animal life histories. His talk very convincingly showed the scientific insights to be gained by applying cross-disciplinary approaches to studying complex traits in evolutionary and environmental contexts. Such was the dynamism of Vincent's lecture, that his final slide made me seriously consider a sabbatical at the University of Ottawa for the sake of skating to my guest office - despite my general abhorrence of cold weather. Dr. Careau was selected from many outstanding nominees by the selection committee composed of Sheila Patek (Chair), Adam Summers, Alison Sweeney, Marty Martin, and Robert Cox. DCPB thanks the committee for their service, and also extends sincere thanks to John Lighton and Robin Turner of Sable Systems International for their continued generous support of the George Bartholomew Award.

This year DCPB sponsored five symposia at the SICB meeting on a variety of topics ranging from venom and photoreceptors to climate change and biology of extremophiles. These symposia included "Life on the Edge: the Biology of Organisms Inhabiting Extreme Environments" (organized by Annie Lindgren and co-sponsored by DVM), "Extraocular, Nonvisual, and Simple Photoreceptors" (organized by Thomas Cronin & Sonke Johnsen and co-sponsored by DIZ, DNB, & AMS), "Integrative and Comparative Biology

of Venom" (organized by Marymegan Daly & Lisle Gibbs and co-sponsored by DEE, DIZ, DNB & DPCB), "Beyond the Mean: Biological Impacts of Changing Patterns of Temperature Variation" (organized by Michael Dillon, Art Woods & Michael Sears and co-sponsored by DAB, DCE, DEE, & DIZ) and "Tapping the Power of Crustacean Transcriptomes to Address Grand Challenges in Comparative Biology" (organized by Donald Mykles, Karen Burnett, David Durica & Jonathon Stillman and co-sponsored by TCS, DCE, DEDB, DIZ & DNB). Three talks presented by DCPB members Hollie Putnam, Zach Stahlschmidt and Daniel Goldman were selected for press releases and picked up by media outlets extending the Division's outreach beyond the confines of the academic world.

DCPB is a strong supporter of the SICB's culture and tradition of involving young researchers (including students and post-docs) in the Society's activities. This year's meeting was no exception with outstanding student participation rates and many excellent posters and talks presented by the next generation scientists. DCPB had a record number of submissions (57) for the annual competition for the Best Student Presentation. By tradition, DCPB names the best student presentation competition in honor of an eminent physiologist who has passed away. This year's award was named in honor of Dr. Louis J. Guillette Jr., Director, Marine Biomedicine & Environmental Sciences Center and Endowed Chair in Marine Genomics at the Medical University of South Carolina. Dr. Guillette was a long-standing member of SICB and one of the pioneers in the field of endocrine disruptors who made great contributions to our understanding of how contaminants may impact endocrine and reproductive health in wildlife and humans. The Louis J. Guillette Jr. Award was awarded to Yvonne Dzal (University of British Columbia) for the best student oral presentation entitled "Are hibernating bats just big babies? Metabolic, thermoregulatory, and ventilatory responses of bats to low environmental oxygen," and to A.J. Jimenez (Whitworth University) for best student poster entitled "Effects of bacterial exposure on predator escape response in Atlantic brown shrimp, *Farfantepenaeus aztecus*" based on work completed at the College of Charleston and Hollings Marine Laboratory. On behalf of DCPB, I congratulate the winners on this honor and thank them, as well as other students who participated in the competition, for the excellent contributions to the scientific program of the SICB. We are also grateful to Ana Jimenez for coordinating the judging of the student presenta-



tions and for completing this formidable work with efficiency and good humor. Last but not least, we thank all DCPB members who served as judges for this competition. We had an outstanding response to our plea for the volunteer judges this year with over 20 Society members generously volunteering their time and expertise as judges, and we are grateful to them for this important service and for enhancing the SICB experience for the students.

I am looking forward to my first year serving DCPB, so please contact me with your ideas, suggestions, and any questions at Chair.DCPB@sicb.org. I thank you for your support of SICB and look forward to seeing y'all in New Orleans!

George Bartholomew Award Winner



*Vincent Careau, 2016
Bartholomew Award
Winner*

This year's George Bartholomew Award winner, Vincent Careau, gave a great talk, "Interfacing Energetics, Behavioral Ecology and Evolution to Illuminate Blind Spots and Elicit Discovery." Dr. Careau is an Assistant Professor at the University of Ottawa where he continues his research

into the role of individual variation in co-adaptation among physiological, behavioral, and functional performance. Vincent was selected from a highly competitive pool of nominees by the selection committee composed of Sheila Patek (Chair), Adam Summers, Alison Sweeney, Marty Martin, and Robert Cox. DCPB again thanks John Lighton and Robin Turner of Sable Systems International for their continued gracious support of the George Bartholomew Award.



Message from the DCPB Student Presentation Judging Coordinator

Ana Jimenez



Ana Jimenez, Colgate University

The DCPB had over 60 poster and oral student presentations entered into the Best Student Presentation competition. Thirty eight judges volunteered to assess student presentations, and each presentation had up to 3 judges. Each year, DCPB names the best student presentation competition in honor of an eminent physiologist who has passed. This year's award, the Louis J. Guillette Jr. Award, was awarded to Yvonne Dzal (University of British Columbia) for best student oral presentation and to Alessandra Jimenez (College of Charleston, Hollings Marine Laboratory, and Whitworth University) for best student poster presentation. Congratulations to these two students for their excellent presentations and to all who participated!

The DCPB's Louis J. Guillette Jr. Best Student Presentation Awards

This year the DCPB student presentation awards were named in honor of Dr. Louis J. Guillette Jr. (1954-2015). Lou was born in Wichita Falls, Texas. He received his BSc degree from New Mexico Highlands University, after which he worked as a wildlife biologist in New Mexico. Later he continued his studies as a graduate student in the lab of Dick Jones at the University of Colorado, where he completed his MA in 1979 and PhD in 1981. Building upon his graduate success, Lou focused his primary research efforts on the evolution of reproductive systems, and in particular sex determination, viviparity, and pla-



centration. He set up his lab of comparative endocrinology at the University of Florida, Gainesville, in 1985 where he built an exemplary career in research and teaching. Lou is most widely recognized for his pioneering research in environmental toxicology. His groundbreaking research identified pesticides as endocrine disruptors that were causing significant reproductive dysfunction in alligators. Lou's comprehensive research also presented a compelling link to human health, in particular that estrogen mimics could translate into reproductive illness in humans. While Lou was a well-respected and charismatic science advocate, he was also recognized by many academic distinctions including Distinguished Professor at the University of Florida, Professor at the Howard Hughes Medical Institute (HHMI), and AAAS fellow. Lou was also later appointed the Center of Economic Excellence Endowed Chair in Marine Genomics with the Hollings Marine Laboratory. Greater details can be found in the memoriam by C. Helbing, C. Taylor, and T. Iguchi in *Environmental Health Perspectives* (2015, 123:10) ([article link](#)).

The Louis J. Guillette Jr. Award for Best Oral Presentation

Yvonne Dzal, University of British Columbia



The winner of the DCPB's Louis J. Guillette Jr. Award for best oral presentation is Yvonne Dzal. Yvonne is currently completing her Ph.D. dissertation at the University of British Columbia, under the supervision of Dr. William Milsom. Together, they are interested in understanding how mammals match oxygen demand to oxygen supply in response to

low environmental oxygen (i.e., hypoxia). Generally, mammals are not thought to be hypoxia-tolerant. However, there are striking parallels in physiological traits between all newborn mammals and adults of species capable of hibernation, one of which is hypoxia tolerance. At this year's SICB conference, Yvonne presented results showing that, among mammals, bats are champions at tolerating low environmental oxygen. She and her colleagues found that bats use

divergent strategies to deal with hypoxia (i.e., some increase oxygen supply by breathing more, while other species decrease oxygen demand by shutting down metabolism), and that bats may be the most hypoxia-tolerant mammals identified. Furthermore, their work demonstrated that the strategies of newborn and adult hibernating bats in response to hypoxia are indistinguishable. Both groups responded to hypoxia by extreme reductions in oxygen demand, suppressing metabolism by more than 60%.

Their findings provide compelling evidence that hibernation may have evolved through the retention of newborn traits, and that hibernating bats, are in fact, just big babies.

The Louis J. Guillette Jr. Award for Best Poster Presentation

Alessandra Jimenez, College of Charleston, Hollings Marine Laboratory, and Whitworth University

The winner of the DCPB's Louis J. Guillette Jr. Award for best poster presentation is Alessandra Jimenez.



Alessandra is an undergraduate student from Whitworth University. As a summer intern with Dr. Karen Burnett of the College of Charleston, she investigated physiological trade-offs in Atlantic brown shrimp (*Farfantepenaeus aztecus*) at the Hollings Marine Laboratory. Immune responses to bacterial infection include sequestering bacteria into the gills, which blocks blood flow and reduces oxygen uptake in these shrimp. Although such "internal hypoxia" may be expected to reduce escape performance,

Alessandra found that instead anaerobically-powered predator escape activity increased with bacterial exposure. This unexpected positive association may be due to enzymatic activity of arginine kinase, which is essential to anaerobic energy production and has been found to increase in bacteria-infected crustaceans. These exciting results link biochemical activity to whole-organism performance.



Call for Nominations from the Chair of the Bartholomew Award Committee

Adam Summers, University of Washington

Nominations and applications for this year's Bartholomew Award are due **25 August 2016**. This award recognizes integrative research in biochemistry, physiology, functional morphology and related fields and offers the awardee a fantastic opportunity to communicate this research via a large lecture at each SICB conference. We encourage nominations of individuals from under-represented groups in science, including women.

Instructions for Bartholomew Award Nominations:

Eligible candidates are those who have completed their doctorate within the past seven 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. Adam Summers, 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. Summers (fishguy@uw.edu). The person chosen as the recipient of this award will be invited to present a special address at the 2017 SICB Meeting in New Orleans. In addition to a cash prize, the recipient will be reimbursed for expenses incurred to attend the meeting. Greater details can be found at <http://www.sicb.org/membership/awards.php3#bart>

Message from the DCPB Program Officer

Jason Podrabsky, DPO.DCPB@sicb.org

Portland 2016

The Portland meeting was a great success, so thank you to everyone who participated in the meeting! Our division co-sponsored a number of great symposia covering a diversity of topics, including: *Life on the Edge: The Biology of Organisms Inhabiting Extreme Environments*; *Extraocular, Nonvisual, and Simple Photoreceptors*; *Integrative and Comparative Biology of Venom*; *Beyond the Mean: Biological Impacts of Changing Patterns of Temperature Variation*; and last but certainly not least *Tapping the Power of Crustacean Transcriptomes to Address Grand Challenges in Comparative Biology*. This year the recipient of the Bartholomew Award was Vincent Careau of the University of Ottawa. His lecture, entitled "Interfacing Energetics, Behavioral Ecology and

Evolution to Illuminate Blind Spots and Elicit Discovery," was an entertaining and informative lecture that offered a little something for just about everyone. If you want to nominate an early PhD integrative biologist for the Bartholomew award, visit the SICB webpage at: <http://www.sicb.org/membership/awards.php3#bart>.

New Orleans 2017

The 2017 SICB meeting is back in New Orleans! This promises to be a great meeting with lots of world-class food and entertainment in addition to the world-class science! Stay tuned for more info on the meeting in the fall newsletter. The division is sponsoring or co-sponsoring a number of great symposia for the meeting, including:

Indirect Effects of Global Change: From Physiological and Behavioral Mechanisms to Ecological Consequences (SICB Wide). Organizers: Alex Gunderson, Jonathon Stillman & Brian Tsukimura.

The Ecology of Exercise: Mechanisms Underlying Individual Variation in Movement Behavior, Activity or Performance. Organizers: Tony Williams, Shaun Killen & Ryan Calsbeek.

Evolutionary Impacts of Seasonality. Organizers: Caroline Williams & Gregory Ragland.

With a Little Help from My Friends: Microbial Partners in Integrative and Comparative Biology (SICB Wide). Organizers: Kevin Kohl & Denise Dearing.

Please contact the organizers if you would like to participate in the complementary sessions associated with these symposia. Also, you can check out the rest of the great symposia at the symposium website: <http://www.sicb.org/meetings/2017/>

San Francisco - 2018

Now is the time to be thinking about proposing to organize a symposium for the 2018 meeting in San Francisco. Symposia that look to define emerging concepts or major advances in a field, are integrative across disciplines, and include a diversity of speakers are more likely to gain broad support within SICB and with funding agencies. If you would like to propose a symposium, the deadline is August 25, 2016. However, it is never too early to fill out the application at: <http://www.sicb.org/meetings/2018/callsymp.php>. I would be happy to brainstorm or discuss ideas if you want to drop me a line, or you can also contact



the SICB program officer Rick Blob (programofficer@sicb.org). There are new guidelines for symposia this year that are posted at the website listed above. Please let me know if I can be of any assistance. I hope that everyone is having a productive 2016 and I look forward to hearing your great ideas for symposia for the 2018 meeting.

Other meetings of interest

EB 2016

April 2-6, 2016, San Diego, CA

<http://www.apsebmeeting.org>. There are going to be a lot of great physiology talks at this meeting, including The August Krogh Lecture delivered by Jon Harrison.

APS Workshop: Institute on Teaching and Learning

June 20-24, 2016. Madison, Wisconsin

<http://www.the-aps.org/itl>

Physiology 2016

July 29-31, 2016, Dublin, Ireland

<http://www.physiology2016.org>

Intersociety Meeting: The Integrative Biology of Exercise VII

November 2-4, 2016, Phoenix, Arizona

<http://www.the-aps.org/mm/Conferences/APS-Conferences/2016-Conferences/Exercise>

IUPS 38th World Congress – Rhythms of Life

August 1-5, 2017, Rio de Janeiro, Brazil

<http://iups2017.com>

Message from the DCPB Student/Postdoctoral Affairs Committee Representative

Catherine Dayger, cdayger@pdx.edu



Catherine Dayger, Portland State University

A few years ago SPDAC launched a Facebook and Twitter account (see links below), to provide students a place where their voice can be heard. We would love to know how to make SICB even more valuable to students and post-docs. If you have any ideas for how

we can best serve you, we'd love to hear about it. Let us know what you want from your SICB 2017 meeting experience in New Orleans by contacting us through either Facebook or Twitter!

At the meeting in Portland, SICB funded 34 of 132 applications for the Grants in Aid of Research (GIAR) program and 4 of 19 applications for the Fellowship of Graduate Student Travel (FGST) program. If you would like to apply for either funding source next year, you can find out the details on the SICB website (see <http://sicb.org/grants/researchgrant.php3>)

This year's SPDAC workshop was entitled "Academic Transitions: Successfully Navigating from Undergraduate to Professor" and was attended by 105 people, 38 of whom were undergraduates, the largest group in recent memory. Thank you to everyone who helped out leading the focused discussions; we could not make workshops like these a success without the generous help of the SICB community.

There is an excellent list of grants and fellowships that the committee curates on the SICB website at <http://www.sicb.org/grants/externalgrants.php>. You can log in with your last name and member number and find all sorts of opportunities. There are a number of applications that are due this spring, so I encourage you to take a look.

Facebook page: <https://www.facebook.com/sicbspdac>

Twitter account: @SICB_SPDAC

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

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



Message from the DCPB Secretary

Robin Warne, Secretary.DCPB@sicb.org



Robin Warne, Southern Illinois University

Thanks to everyone who helped make the 2016 Portland meeting a great success! Please join me in thanking Ana Jimenez for her dedicated efforts in managing and organizing the Best Student Presentation Awards competition for DCPB. There were more than 60 student entries in the competition, and it is no small feat to organize the judging of these presentations. I would also like to sincerely thank the many DCPB members who volunteered to serve as judges for the competition – we really appreciate your time and dedication to the DCPB.

Elections for our Divisional Program Officer will take place later this spring. The new Program officer will serve a two-year term beginning at the conclusion of the 2017 meeting. We have two excellent candidates for the position. Ballots will be issued in May, so keep an eye out for the SICB Election email and please vote! On behalf of the DCPB, I sincerely thank these outstanding candidates for their willingness to serve our division.

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. If you would like to see your research highlighted on the SICB website, please send me a research picture, title for the picture/research,

and a brief (1-3 sentences) description of your research via email. Examples can be found [here](#).

Thanks to all of our members for your continued support of the DCPB – I look forward to seeing you all again in New Orleans!

To access the Minutes of the DCPB Business Meeting held in Portland, OR on 5 Jan 2016, click [here](#).

Elections

Candidates for DCPB Chair-Elect Kimberly Hammond



Current Position: Professor of Biology, University of California Riverside.

Education: B.S. Zoology, Colorado State University (1978); M.A., Biology, Buffalo State University (1983); Ph.D. Biology, Colorado State University (1989).

Professional Experience: Postdoctoral Fellowship, UCLA (1990-1995); Director, University of California Riverside Natural Reserve System (2012-present); Program Officer, Division of Integrative Organismal Systems, National Science Foundation (2015-2016).

SICB Activities: Member since 1978 (when it was the American Society of Zoologists); member, Postdoctoral Affairs Committee (~1992-1994); member, Executive Committee (1993-1994); Program Officer, Division of Comparative Physiology and Biochemistry (2005-2007); member, planning committee, International Congress of Comparative Physiology and Biochemistry for SICB (2005-2008).

Research Interests: I am a comparative physiologist and a physiological ecologist. I am interested in learning about functional processes that permit life in harsh or challenging habitats. This includes understanding the interrelationship between different physiological/organ systems as well the capacity for phenotypic plasticity when the demands on those systems grow. My current research is in understanding how deer mice are able to be active in high altitude habitats.



SICB Newsletter

Spring 2016 Issue

Goals Statement: I have been a member of the American Society of Zoologists and then SICB since the Pleistocene and I consider SICB my scientific home. It has not only provided a place for me to grow from a curious student to a researcher and teacher, but has also nurtured my students. I feel a huge debt to the society and to DCPB where I have always found that my interests resonated. As a Chair of DCPB, I would hope to support and continue to grow the Division's support of young students, post-doctoral fellows, and young faculty. Likewise I would be pleased to work hard to help recruit excellent symposia and cross-divisional activities such as Society-wide symposia. I would also like to encourage our Division and the Society at large to engage in a dialog with universities and federal agencies to find constructive ways to alleviate the pressures for funding at the same time as promoting an active and exciting research and teaching environment in our universities and nationally. Finally, I would also look forward to interacting with the Executive Committee and bringing the concerns and ideas of our Division forward to that body.



Jonathon Stillman

Current Positions:

Professor, Romberg Tiburon Center and Department of Biology, San Francisco State University; Associate Adjunct Professor, Department of Integrative Biology, University of California Berkeley.

Education: B.S. University of Minnesota (1991); Ph.D. Oregon State University (1998); Postdoctoral Fellow, Johns Hopkins

University (1999-2000); Postdoctoral Fellow, Hopkins Marine Station, Stanford University (2001-2003).

Professional Experience: Visiting Professor, Biology, Occidental College, Los Angeles, CA (2001-2002); Assistant Professor, Zoology, University of Hawaii at Manoa (2003-2005); Assistant/Associate Professor, Romberg Tiburon Center and Department of Biology, San Francisco State University (2005-2014); Assistant Adjunct Professor, Department of Integrative Biology, University of California Berke-

ley (2009-2016); active Editorial Appointments: Integrative and Comparative Biology (2016-), Marine Biology (2015-), Physiological and Biochemical Zoology (2012-); active reviewer for many journals and funding agencies; frequent panelist for National Science Foundation (BIO IOS, GEO BIO-OCE).

SICB Activities: Member since 1990; attendee since 1987; Program Officer DCPB (2013-2014); Secretary DCPB (2006-2007); co-author of two Grand Challenges in Organismal Biology manuscripts (2010, 2011); organized/co-organized four symposia and two workshops; nominated for SICB Secretary (2010) and Program Officer (2014).

Research Interests: Environmental physiology of marine and freshwater invertebrates (crabs, clams, insects) and phytoplankton (coccolithophores), focused on understanding the ultimate and proximate causes of physiological adaptation to variation in environmental shifts in temperature, ocean acidification/hypercapnia, salinity, hypoxia/hyperoxia. My work often employs multi-stressor studies with a focus on understanding responses to temporally realistic levels of environmental variability. My research uses integrative analyses across biological levels of organization, from ecological and behavioral to organismal, sub-organismal, biochemical, and functional genomics, to understand ecological and evolutionary responses to environmental change.

Goals Statement: Since 1987, when I attended my first ASZ meeting as a freshman undergraduate, SICB has been an important mainstay of my professional career. The strengths of SICB as a broad and student-postdoc friendly meeting that draws notable mid-career and senior researchers are important to maintain. We must work to keep the SICB meeting a desirable "must attend" meeting for comparative physiologists in order to ensure that the professional development of scientists at all career phases are exposed to cutting-edge, transformative approaches being applied in comparative physiology, and that we have a consistent forum for developing the sorts of collaboration and intellectual exchange that keeps our field connected to broader aspects of organismal biology represented at SICB. As DCPB Chair-Elect I will focus my efforts on the following challenges: I will work towards ensuring that the SICB annual meetings remain a core high-priority meeting for comparative physiologists by encouraging the development of programs at the cutting edge of comparative physiology. In doing so, we should be pay-



ing particular attention to retaining the many young and diverse scientists who have recently joined the society, as well stronger linkages between DCPB and other physiological societies (e.g., APS Comparative Section). I will strongly encourage the development of interdivisional symposia that reflect the multi-disciplinary nature of comparative physiology, that meet the Grand Challenges in Organismal Biology that SICB members have outlined, and that promote fruitful future directions for helping comparative physiologists make significant progress in fundamental aspects of our research, education, and outreach efforts. Finally, I will work with the SICB Executive Committee to promote DCPB's efforts in development, diversity, and dialog with journalists to ensure that DCPB remains strongly poised into the future.

Candidates for DCPB Program Officer **Brent Lockwood**



Brent Lockwood, University of Vermont, Candidate for DCPB Program Officer

Current Position: Assistant Professor, Department of Biology, University of Vermont, Burlington, VT.

Education: B.S. Ecology, Behavior, and Evolution, UC San Diego (2002);

Ph.D. Biological Sciences, Hopkins Marine Station, Stanford University (2011).

Professional Experience: NIH Postdoctoral Fellow, Department of Biology, Indiana University (2011-2014); Assistant Professor, Department of Biology, University of Vermont (2014-present).

SICB Activities: Member since 2010; Judge of DCPB best student presentations; Session chair.

Other Memberships: American Physiological Society; Genetics Society of America; Society for the Study of Evolution.

Research Interests: In the Lockwood Lab, our ultimate goal is to elucidate how the environment shapes the evolution and biogeography of populations and species. To this end, we take a comparative physiological approach to connect molecular processes to

whole organism phenotypes in an ecological context. We integrate approaches in developmental biology, genetics, genomics, and biochemistry, and we study both non-model and model species that hail from diverse and dynamic environments.

Goals Statement: SICB is my favorite meeting of the year, and I have been pleased to see the popularity of the meeting grow in recent years - 2016 in Portland was the most highly attended SICB meeting ever! I think this is due to the fact that the Society for Integrative and Comparative Biology, and particularly DCPB, provides a unique forum for integrative biology and collaborative research that cannot be found elsewhere. As Program Officer, I would seek to capitalize on the integrative and collaborative nature of our division to offer symposia that are cross-disciplinary. In addition, I would increase public outreach efforts by working with meeting organizers to increase the online media content on the SICB website.

Wes Dowd



Wes Dowd, Loyola Marymount University, Candidate for DCPB Program Officer

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

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,



SICB Newsletter

Spring 2016 Issue

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.

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

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 the SICB meeting 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 the 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. The Society has experimented with a variety of different formats for presentations in recent years, and I look forward to meeting the challenge of accommodating the annual meeting's rapid growth while keeping the program accessible and "personal" enough to keep those new participants coming back for years to come. 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.