



Division of Comparative Physiology & Biochemistry

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DCPB Officers & Representatives

Inna Sokolova
Chair 2016-2018

Kimberly Hammond
Chair-Elect 2017-2018

Stephen Secor
Past Chair 2016-2018

Robin Warne
Secretary 2016-2018

Wes Dowd
Program Officer 2017-2019

Catherine Dayger
Student/Postdoc Representative 2015-2018

Announcements

DCPB Facebook group

DCPB has a new Facebook group for our members to share news, research updates, pose questions, etc. If you would like to join the DCPB group please visit <https://www.facebook.com/groups/Div.Comp.Phys.Biochem>.

Assistant Professor of Evolutionary Biology position at UCR

The University of California, Riverside is recruiting an Assistant Professor of Evolutionary Biology. For application details visit <https://aprecruit.ucr.edu/apply/JPF00723>.

Propose a DCPB-Sponsored Symposium for ICCPB 2019

The 10th International Congress of Comparative Physiology and Biochemistry ("Mechanisms and evolutionary processes") will be held August 5-9, 2019, in Ottawa, Canada (www.iccpb2019.com). There is a call for symposia with proposals due 18 January 2018. DCPB can help support a symposium at the meeting if it is relevant to the division; email our Program Officer, Wes Dowd, if you are interested at DPO.DCPB@sicb.org.



*Inna Sokolova,
University of Rostock*

Message from the DCPB Chair

Inna Sokolova (Chair.DCPB@sicb.org)

Greetings from the cool Baltic shores! The SICB 2018 meeting is just around the corner, when San Francisco will welcome all the fearless comparative and integrative biologists on its friendly and beautiful shores. The location of the meeting is second to none and the scientific program promises to be intensive, diverse and intellectually stimulating in the best traditions of SICB. According to the (admittedly small but hopefully representative) sample of the SICB 2018 attendees who voted on Twitter #SICB2018, exactly 0% of the presentations at the 2018 SICB meeting are based on published research, with the remaining 100% describing new exciting findings to be found (as of yet) nowhere else. I am looking very much forward to the meeting and to learning about all the great things you have been up to scientifically during this past year.

DCPB continues to be an important presence in SICB as one of the largest SICB divisions and a significant contributor to the meeting's scientific program. This year, DCPB has co-sponsored three SICB symposia on a broad range of comparative topics including "Understanding the Evolution of Endocrine System Variation through Large-scale Comparative Analyses" organized by Maren Vitousek, Michele Johnson, and Jerry Husak; "Inside the Black Box: The Mitochondrial Basis of Life-history Variation and Animal Performance"



organized by Karine Salin & Wendy Hood; and “Behavioral and Physiological Adaptation to Urban Environments” organized by Jenny Ouyang & Davide Dominoni. DCPB also sponsors the society-wide George Bartholomew Award which recognizes a young investigator for distinguished contributions to comparative physiology and biochemistry or to related fields of functional and integrative biology. Adam Summers (University of Washington), Chair of the George Bartholomew Award Committee, will provide more details on this year’s award. I would like to sincerely thank Adam and the other members of the Bart Award committee for their time and effort in reviewing applications for this highly prestigious award, and cordially invite all of you to attend the George Bartholomew Award lecture which is rightfully considered one of the SICB meetings’ highlights.

I would also like to draw your attention to the DCPB Best Student Presentation oral and poster competition coordinated by Valentina Di Santo (Harvard University). Every year we receive a large number of student applications for this important and prestigious award. Since it takes a village to raise the new generation of excellent scientists, DCPB is in need of your enthusiasm, expertise and mentoring skills to judge this competition. Please consider volunteering as a judge for this competition, and contact Valentina (vdisanto@fas.harvard.edu) to offer your services (alternatively, if you already have been approached by Valentina with an invitation to serve, please say “yes”). This competition is extremely important to our students and the Division, and cannot be done without your help!

Please attend the DCPB business meeting, which will be held prior to the Bartholomew Award lecture. This is a great opportunity for the new, as well as seasoned, DCPB members to learn about the ongoing activities and future plans of the DCPB and to become actively engaged in the Division’s activities and leadership. During the DCPB business meeting, the Division’s officers and committees provide their reports, discuss future meeting venues and programs, and the Division’s support for symposia, other meetings and journals. Editors of *Comparative Biochemistry and Physiology* and *Physiological and Biochemical Zoology* will present the annual reports for their journals. Please bring along your questions, concerns, and ideas and suggestions for improvement to the business meeting. I am looking forward to your input and to seeing you in San Francisco.

Please feel free to contact me with your ideas, suggestions, and any questions at Chair.DCPB@sicb.org.



Caroline M. Williams,
University of California,
Berkeley,
2018 Bartholomew
Award Winner

2018 Bartholomew Award Winner – Dr. Caroline Williams

This year’s George Bartholomew Award winner is Dr. Caroline Williams, Assistant Professor of Evolutionary Physiology at the University of California, Berkeley. At the San Francisco meeting she will present the Bartholomew Award Lecture titled “Cold truths: Evolutionary impacts of winter on terrestrial ectotherms.” Dr. Williams grew up in New Zealand, completing her BSc and MSc

at the University of Otago. She moved to North America where she completed her PhD (2012) on overwintering energetics of Lepidoptera, with Dr. Brent Sinclair at Western University in Ontario, Canada. After conducting her postdoc research on *Drosophila* cold adaptation with Dr. Daniel Hahn at the University of Florida, she began her current position as Assistant Professor at UC Berkeley in 2014, studying evolutionary physiology. Her current research focuses on the role of snow in driving ecology and evolution of insects, and elucidating the biochemical and metabolic origin of life history trade-offs.

Message from the DCPB Program Officer

Wes Dowd, DPO.DCPB@sicb.org

Upcoming Meeting Highlights – January 3-7, 2018, in San Francisco, CA

I write this update from the SICB Program Committee planning meeting in sunny San Francisco. We’ll be in the Mission District, with loads of restaurants and other activities in the vicinity. The Marriott Marquis will be our venue. Please make your hotel reservations and pay your registration fees soon via the SICB meeting website. The attached convention center is reminiscent of the last SICB San Francisco meeting, so bring comfortable shoes and plan to spend a few minutes orienting yourself, as talks will be spread over several floors each day.

DCPB once again will have a strong showing in San Francisco:

- Approximately 10% of the annual meeting program is made up of DCPB-affiliated abstracts, with 104 talks and 90 posters;



- 14 oral sessions ranging from muscle physiology to the complexities of measuring metabolic rates to environmental -omics;
- 44 oral abstracts submitted by Graduate Student members; similar to last year this is ~40% of all oral abstracts affiliated with DCPB;
- In a positive sign of potential future growth, 22 oral presentations will be given by individuals who are not currently members of SICB. Please welcome these folks and encourage them to join the Society.

DCPB is co-sponsoring 3 symposia this year (see <http://www.sicb.org/meetings/2018/symposia/index.php>):

- Fri, Jan 5: Understanding the Evolution of Endocrine System Variation through Large-scale Comparative Analyses; Organizers: Maren Vitousek, Michele Johnson, and Jerry Husak
- Sat, Jan 6: Inside the Black Box: The Mitochondrial Basis of Life-history Variation and Animal Performance; Organizers: Karine Salin & Wendy Hood
- Sun, Jan 7: Behavioral and Physiological Adaptation to Urban Environments; Organizers: Jenny Ouyang & Davide Dominoni

Integrative and Comparative Biology Editor's Challenge on Defining Stress:

- Details are forthcoming, but the tentative plan is to host a workshop and/or brief series of talks on Wednesday, January 3 at the annual meeting venue. This is the day of the opening plenary, so if you are interested in attending please plan your travel and hotel accommodations accordingly.

Spend Thursday evening with DCPB and the Bartholomew Award Winner

Please make plans to attend the DCPB business meeting on Thursday, January 4, at 5:45-6:30 pm in room Nob Hill A/B. This is your best chance to have your voice heard regarding the future activities and direction of the Division.

The Bartholomew Award winner's lecture immediately follows at 7 pm and is located directly across the hallway in Salon 7.

We will be experimenting with a new format for the post-Bartholomew-lecture DCPB social, moving to a nearby restaurant within an easy walk of the lecture. Stay tuned for further details. The Division of Ecology and Evolution will co-sponsor the social this year.

Share Your Symposium Ideas for Future SICB Meetings

The Society and DCPB are constantly soliciting and encouraging your ideas for future symposium topics. If you have an idea you'd like to explore, please contact me at the email above or track me down in San Francisco. This year there were 16 proposals for the 2019 meeting in Tampa, of which 4 successful proposals had physiological or biochemical components. Please help us to sustain this momentum for Austin in 2020 and DC in 2021!

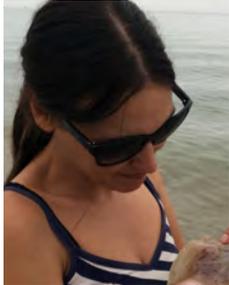
Propose a DCPB-Sponsored Symposium for ICCPB 2019

DCPB will provide financial support for one or more symposium proposals for the 10TH INTERNATIONAL CONGRESS OF COMPARATIVE PHYSIOLOGY AND BIOCHEMISTRY (ICCPB), "Mechanisms and evolutionary processes," to be held August 5-9, 2019, in Ottawa, Canada. Decisions on prioritization of Division support will be made based on review of brief pre-proposals. If you are interested in organizing an ICCPB symposium with DCPB support, please email the following to Wes Dowd at DPO.DCPB@sicb.org:

- Brief (<1 page) summary of the proposed topic and justification of its timeliness for the ICCPB meeting;
- Proposed list of speakers and their topics (these do not have to be confirmed at this stage); this should be 4-5 individuals, preferably of mixed rank/gender/approaches;
- Estimated number of SICB DCPB participants/attendees.

In order to facilitate review of these symposium pre-proposals by the DCPB Executive Committee in advance of the January 15, 2018, deadline for ICCPB, please submit your **pre-proposal by December 1, 2017**.

Please see the Congress website <http://www.iccpb2019.com> for further details. Ted Garland of UC Riverside is the SICB liaison to ICCPB.



Valentina Di Santo,
Harvard University

Message from the DCPB's Best Student Presentation Judging Coordinator

Valentina Di Santo, vdisanto@fas.harvard.edu

Greetings from Boston! The Division of Comparative Physiology and Biochemistry always has many outstanding students competing for our best oral and poster presentation.

This year will be our final year of traditional judging of all students competing for best presentations. Starting the following year (2019), students competing for the best presentation award will have to submit a detailed abstract and cover letter in order to be selected for and to compete in the oral or poster session devoted to DCPB best student presentations. This year, however, each student competing will receive anonymous feedback from their judges. We usually have many students presenting (> 70), so I am looking for volunteers to serve as judges for our annual meeting in San Francisco, if you're interested, please contact me (vdisanto@fas.harvard.edu).

See you in San Francisco!



Catherine Dayger,
Portland State
University

Message from the DCPB Student/Postdoctoral Affairs Committee Representative

Catherine Dayger, [Portland State University \(daygerc@ohsu.edu\)](mailto:daygerc@ohsu.edu)

We're heading in to the Annual meeting in San Francisco in January and I hope you all are getting excited. I hope you'll all look for the Student/Postdoctoral Affairs Workshop at the meeting —

more details on the topic, time, and location will be coming soon. Is there some skill or experience you particularly want to see from the meeting? Let me know!

The National Academy of Sciences "National Academies of Sciences, Engineering and Medicine Committee on Revitalizing Graduate STEM Education for the 21st Century" has released a discussion draft of some core competencies and ideas for how to improve graduate education practices. It's an interesting read

and I think worth thinking about as you seek graduate programs or reflect on your experience of graduate school. http://sites.nationalacademies.org/pga/bhew/graded/pga_180817.

Finally, as always, I want to remind students and post-docs of the 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.

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

Twitter account: [@SICB_SPDAC](https://twitter.com/SICB_SPDAC)



Robin Warne,
Southern Illinois
University

Message from the DCPB Secretary

Robin Warne (Secretary.DCPB@sicb.org)

I'm pleased to announce that DCPB has a new Facebook group for our members to share news, research updates, pose questions, etc. If you would like to join the DCPB group please visit <https://www.facebook.com/groups/Div.Comp.Phys.Biochem>.

I am also happy to congratulate Dr. Marshall McCue for his election to DCPB Secretary, with his term to begin this January 2018 (at the end of the San Francisco meeting)!

Thus, my term as DCPB Secretary is drawing to a close. It has been a pleasure working with the DCPB officers, and I look forward to continuing interacting with all of you — the DCPB membership — at future DCPB business meetings and SICB conferences.

Regarding the DCPB Best Student Presentation competition, we will be continuing the competition as we have in years past. Although we announced in our previous newsletter that we intend to have sessions devoted to these competitions, we will postpone the development of these oral and poster sessions until the 2019 meeting. Thus, the DCPB will need your help in judging the many great student presentations during the annual meeting in San Francisco. If you have not yet indicated your interest in serving as a judge for DCPB during meeting registration, please email Dr. Valentina Di Santo, our judging coordinator, at vdisanto@fas.harvard.edu.



Finally, 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 (or Marshall) at Secretary.DCPB@sicb.org. If you would like to see your research highlighted on the SICB website, please send us 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 San Francisco!



Marshall McCue,
St. Mary's University

Message from the incoming DCPB Secretary

I am looking forward to serving as your Divisional Secretary for the next two years. One of my primary goals during my tenure is to extend the Researcher Database on the SICB website. See who is already represented on the website: <http://www.sicb.org/divisions/DCPB/researchers.php3>. DCPB members are studying some unique and astounding

organisms, and we need to share our stories with each other as well as the public. I'll personally be contacting many of you in the Spring, but don't wait for an invitation to contribute your content. See you in San Francisco!

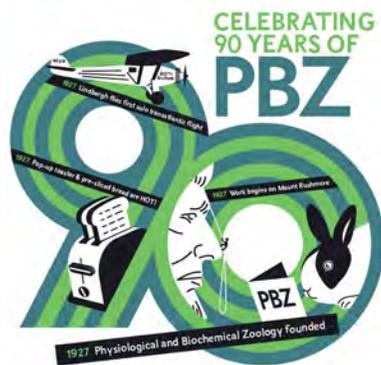
Brief Communications, Book Reviews, Education and Outreach papers, Review papers, and Invited Perspectives with this ecological and evolutionary context, and we appreciate your input as reviewers.

We are also glad to publish the excellent photographs we receive from our authors, and we have decided to highlight a photograph from one of you on the cover of an upcoming issue. In other words, "Your Photo Here!"

The full rules for the PBZ Cover Image Contest can be found at <http://www.journals.uchicago.edu/journals/pbz/photo-contest>. Briefly, submit your photo by April 1, 2018, for a chance for it to be featured on the cover, and for you and/or your lab to be highlighted in a new section, "On the Cover."

In other PBZ news, our publisher, the University of Chicago Press, has made the top-cited 90 papers published in PBZ available for free, at <http://www.journals.uchicago.edu/journals/pbz/90th-anniversary>.

Of course, today's PBZ papers garner their share of attention, such as "Complex plumage patterns can be produced only with the contribution of melanins," by Ismael Galván, Jorge García-Campa, and Juan José Negro, an open access paper published in the September/October 2017 issue of *Physiological and Biochemical Zoology*. You can read the press release, "How Do Birds Get Their Colors?" and access the paper here: <http://www.journals.uchicago.edu/journals/pbz/pr/170803>.



90th anniversary of *Physiological and Biochemical Zoology*

Announcement from the *Physiological and Biochemical Zoology* Editor in Chief

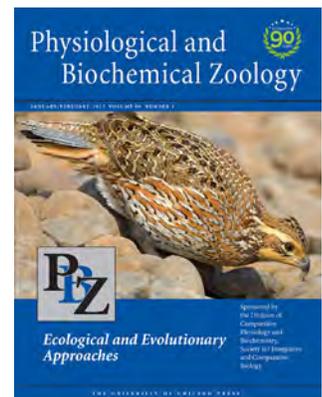
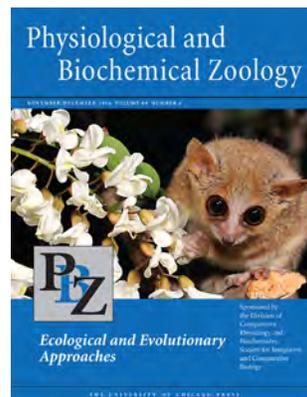
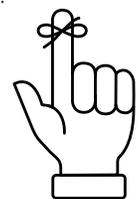
Theodore Garland Jr.

This year we've been celebrating the 90th anniversary of *Physiological and Biochemical Zoology*. What really sets PBZ

apart from our competing journals is the context of the manuscripts we publish: the "Ecological and Evolutionary Approaches" mentioned in our subtitle. We are pleased to have the opportunity to publish your research papers, as well as selected

REMINDER! PBZ is your journal!

Remember to support the SICB-DCPB and send your best work to PBZ!



Cover images of recent PBZ volumes