



The Ecdysiast

Newsletter of The Crustacean Society

Message from the President...

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Dear TCS Colleagues,

I am so elated to connect with the growing TCS membership for the first time as incoming President. TCS is undergoing some major changes and these are exciting times to be a member. Before I get started, I wish to thank Past-President, Shane Ahyong, who has initiated many dynamic changes over his term, as well as hosting a successful TCS Summer meeting in 2015. During Shane's tenure, we successfully transitioned editors, from Fred Schram to Peter Castro, stabilized our finances and developed better funding models, organized our student scholarships and raised student membership and participation. We must all thank Shane for his leadership and interest in developing student members. Also, many thanks to Fred Schram for his long service as editor and for his leadership in within the society.

As a result of the Fall elections, I wish to congratulate Shirley Lim as President-Elect, Joanne Taylor as Program Officer, Benny K.K. Chan as Asian Governor, and Ingo Wehrtmann as Latin Governor who were all recently elected. I look forward to working with the TCS board over the next few years to stimulate our membership and further develop JCB.

One of our biggest transitions will be moving to Oxford University Press starting January 2017. This transition will greatly help stabilize our bottom line and also increase the presence of JCB. The broad distribution by OUP will bring increased exposure for the journal. I wish to thank our transition team, Shane Ahyong, Jason Williams, and Pedro Castro for guiding us through this change in publishers. Chief Editor Castro has the added task of transitioning our submission and editing protocols.

We are continuing to strive to add new members into our fold. We have recently added new awards for students – Travel Scholarships to attend TCS meetings, including summer, SICB or ICC. In addition, we have added new travel awards for Early-Career Post-PhD (\$1500) again to attend TCS meetings, including summer, SICB or ICC. I wish to thank the Program Officer Joanne Taylor for organizing these awards and the Regional Governors for assisting in screening all the applications.

continued.....



We hope that these awards will bring young and enthusiastic new members to our meetings.

I look forward to meeting everyone in Singapore this summer. The Organizing Committee, led by Darren Yeo, is preparing an outstanding conference for us, and they have secured outstanding plenary lectures. If you are unable to attend but have ideas on how we can improve and broaden TCS, please feel free to contact me. Also, please engage your regional governor on how TCS can make local improvements in your region as well as at our international levels. I hope that each current member can start conversations to recruit new members to TCS. We are increasing opportunities for both students and early career post-docs.

Aloha,
Brian



Past-President Shane Ahyong (left) and President Brian Tsukimura (right) at SICB 2016.
Photo from Brian Tsukimura

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The Ecdysiast is published twice yearly in May and November and it is available in electronic form at http://www.thecrustaceansociety.org/Ecdysiast_Newsletter.html. All the past issues are also available from the same web site. Submissions for the May newsletter should be received by mid March, while those for the November newsletter should be received by mid September. All types of crustacean related contributions are encouraged, including announcements of upcoming workshops and meetings, regional updates, meeting summaries (with photos!), new books and any other crustacean news.

Send all material directly to the editor:

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JCB Editorial Report for volume 35 (2015)

Several events marked 2015 as a year of change for Journal of Crustacean Biology. Fred Schram, an influential voice in the field of evolutionary biology of Decapoda, retired as General Editor, an event that, effective September 2015, transferred this responsibility onto my much smaller, weaker shoulders. We are most grateful for the high standard set by Fred and his tireless commitment to elevating and growing our journal.

In order to further expand the reach of JCB, the decision was made at the end of 2015 to move the publication of JCB from Brill to Oxford University Press effective January 2017. Moving from our original publisher, Allen Press, to Brill five years ago brought great benefit and stability to JCB, and we are now at the next stage. This is indeed exciting news because Oxford will offer opportunities to further grow. Important changes are being planned, some of which are being slowly implemented in the current volume 36 (2016), which will be the final volume published by Brill. More is yet to come as the current pale green issues change to a brighter, splashier new cover in January 2017, the first issue of volume 37.

Unfortunately, at the time of writing, statistics for volume 35 were unavailable from Brill, so I am unable to compare the number of submissions and rejection rate in 2015 against 2014. Brill's Editorial Manager, however, currently (April 2016) lists 415 accepted manuscripts, 219 rejected, a rejection rate of 34.5%. Volume 35 (2015) consisted of 96 articles (a total of 866 pages) in contrast to 80 articles (915 pages) in volume 34 (2014). Research Gate reports the JCB impact factor for 2014/2015 as 1.081 in contrast to 1.187 in 2013.

Articles in ecology remain the most numerous (18), followed by those in alpha-taxonomy (15), systematics and evolutionary biology (11), and physiology (9).

The subject spread of the 96 published articles in volume 35, in comparison with previous years

	2012	2013	2014	2015
Reviews	1	2	0	2
Special Sections	3	2	11	0
Functional Morphology & Anatomy	8	3	7	5
Aquaculture	1	8	7	4
Behavior	5	2	2	4
Ecology	19	23	11	18
Larvae & Development	6	4	7	2
Palaeobiology	6	2	1	5
Physiology	10	6	8	9
Population Biology & Genomics	5	5	5	1
Systematics, Evolution & Biogeography	9	8	11	11
Taxonomy	13	7	10	15
Conservation	1	4	0	2
Short Communications	6	5	4	2
Book Reviews	4	6	2	2
Memorials/history	0	0	3	3
Total	98	88	80	96





JCB Editorial Report for volume 35 (2015)

National origin of authors of articles published in volume 35 (2015), in comparison with previous years

	2012	2013	2014	2015
Argentina	24	10	15	2
Australia	13	2	5	5
Belgium	0	3	5	6
Brazil	28	32	39	36
Cambodia	0	0	0	2
Canada	4	6	7	4
Chile	13	4	5	2
China	0	24	40	35
Colombia	0	0	0	2
Croatia	0	0	0	4
Czech Republic	0	1	0	3
Denmark	2	1	1	5
Finland	0	0	0	1
France	5	0	0	5
Germany	17	14	14	12
Greece	0	0	0	3
India	4	1	7	5
Ireland	0	0	0	4
Italy	0	12	11	17
Japan	27	5	12	24
South Korea	3	7	22	16
Mexico	21	7	25	4
Morocco	0	0	0	1
Netherlands	1	1	1	3
Norway	0	1	0	2
Panama	2	0	1	1
Poland	0	0	0	2
Portugal	4	4	0	1
Puerto Rico	0	0	0	2
Russia	2	1	1	4
Singapore	3	0	0	7
Slovenia	0	0	0	1
Spain	14	10	17	3
Sweden	3	0	0	1
Taiwan	9	2	8	6
Thailand	4	2	0	2
UK	11	4	11	17
USA	74	99	65	77
Zimbabwe	0	0	0	2

The US remains the most important source of published manuscripts (77), followed by Brazil (36), China (35), Japan (24), Italy and UK (17), and Korea (16).

The JCB team of associate editors was expanded by the addition of new names that joined several continuing editors. The expertise and assistance of all associate editors are a key to the continuing growth and quality of JCB. The team of associate editors at the beginning of 2016 is as follows:

- Antonio Baeza**, Clemson University, Clemson, SC, USA: evolutionary and behavioural biology, symbiosis
- Raymond Bauer**, University of Louisiana, Lafayette, LA, USA: reproductive biology, Natantia
- Carola Baker**, Queen's University Marine Laboratory, Portaferry, Northern Ireland, UK: anatomy, reproductive biology of Decapoda
- Niel L. Bruce**, Museum of Tropical Queensland, Townsville City, QLD, Australia: systematics of Isopoda
- Ka Hou Chu**, The Chinese University of Hong Kong, China: phylogenetics, population genetics, genomics
- Charles Oliver Coleman**, Museum für Naturkunde, Berlin, Germany: biology of Amphipoda
- Keith A. Crandall**, George Washington University, Arlington, VA, USA; phylogenetics, Astacoidea and Parastacoidea
- Rodney M. Feldmann**, Kent State University, Kent, OH, USA: palaeobiology of Decapoda
- Mark J. Grygier**, Lake Biwa Museum, Shiga, Japan: Maxillopoda, parasitic Crustacea
- Rafael Lemaitre**, Smithsonian Institution, Washington, DC, USA: systematics and biology of Anomura
- Eleni Mente**, University of Thessaly, Vólos, Greece: physiology, aquaculture
- Paul A. Moore**, Bowling Green State University, Bowling Green, OH, USA: ecophysiology, Astacoidea and Parastacoidea
- D. Christopher Rogers**, Kansas Biological Survey, Lawrence, KS, USA: biology of Branchiopoda
- Bernard Sainte-Marie**, Institut Maurice-Lamontagne, Mont-Joli, QC, Canada: reproductive biology, population dynamics, fisheries
- Gilbert Van Stappen**, Ghent University, Ghent, Belgium: aquaculture, *Artemia*

Peter Castro
General Editor
Journal of Crustacean Biology
Submit manuscripts at: www.editorialmanager.com/jcb



Treasurer Report for Fiscal Year 2015

As reported at the SICB meeting in Portland, TCS currently has approximately 475 members, including over 100 student members, a good sign for our society. Thanks to a very kind donation from Peter Castro, TCS is now offering up to three travel grants for early-career researchers. These are in addition to student travel grants and scholarships in graduate studies. Every TCS member should let others know of these benefits and encourage colleagues and students to join. Let's keep the trend of increased membership going!

In spite of the positive membership numbers, TCS had a deficit of ~20K in 2015 that will likely double in 2016 (see the 2016 Proposed Budget provided separately). This is due, in part, to lower income from Brill than anticipated. Schwab account earnings will be used to cover the deficit in 2016. The Finance Committee approved the move to Oxford University Press in 2017 which is projected to put us back on track with positive net income.

TCS supported two symposia at the SICB meeting in January 2016: "Tapping the Power of Crustacean Transcriptomes to Address Grand Challenges in Comparative Biology" organized by Donald Mykles, Karen Burnett, David Durica and Jonathon Stillman and "Parasites and Pests in Motion: Biology, Biodiversity and Climate Change" organized by Christopher Boyko and Jason Williams. Both symposia were well attended and successful. Thanks to a grant from the National Science Foundation (DEB-1543887), Boyko and Williams were able to reimburse TCS funds.

Respectfully submitted,
Jason Williams



Attendees at the Crustacean Society Business Meeting at SICB, Portland, January 2016
Photo credit: Mary Belk



SICB Symposium: Parasites and Pests in Motion



Speakers and organizers of the TCS supported SICB symposium “Parasites and Pests in Motion: Biology, Biodiversity and Climate Change.” Pictured (left to right) are: David Marcogliese, Mark Costello, Andrew David, Boris Krasnov, Armand Kuris, Jason Williams, Julie Hopper, Christopher Boyko, Colleen Burge, Beth Okamura, Iain Barber, and Jeffrey Shields (one speaker, Erin Mordecai, not in picture). Papers resulting from this symposium are slated to be published this year in *Integrative and Comparative Biology*.

At the Society of Integrative and Comparative Biology (SICB) 2016 meeting in Portland, Oregon, Christopher Boyko and Jason Williams co-organized the symposium “Parasites and Pests in Motion: Biology, Biodiversity and Climate Change.” The impetus for this symposium was to bring together researchers working on a wide variety of natural enemies (parasites, pathogens and pests) and explore how climate change may alter the distribution and ecology of these organisms and their hosts. Parasites and pests, like all organisms, will shift in their geographic ranges as the climate changes. However, these changes are often nonlinear and warmer temperatures might increase parasite or pest populations in some areas while decreasing them in others, causing cascading effects potentially at the level of ecosystems. Predicting the likely consequences of changing environments on multi-host parasites is highly challenging and requires novel predictive modeling frameworks. Climate change can enhance stressors that result in measurable economic and societal costs (e.g., commercial, ecological and medical impacts).

Among the eleven speakers, several discussed parasites that impact crustaceans, including a talk by past-president of TCS Jeffrey Shields who presented on “Environmental influences on disease processes in lobsters and crabs” and discussed how increased temperature stress causes physiological changes in host species that increase susceptibility to disease. Other presentations of interest to crustacean biologists included: Mark Costello’s talk on “Global biodiversity and biogeography of parasites”, Iain Barber’s talk on “Effects of changing temperatures on the host-parasite interactions of an ecologically important aquatic parasite” and David Marcogliese’s talk on “The distribution and abundance of parasites in aquatic ecosystems in a changing climate: more than just temperature.” Six of the talks and an Introduction by Williams and Boyko are scheduled to be published in the journal *Integrative and Comparative Biology* in 2016. The symposium was supported by the National Science Foundation (DEB-1543887), The Crustacean Society, and the Society of Integrative and Comparative Biology (including the Divisions of Ecoimmunology and Disease Ecology, Ecology and Evolution, and Invertebrate Zoology).



TCS Best Student Paper and Best Student Poster Awards SICB, Portland, January 2016

The Crustacean Society (TCS) is pleased to announce the winners of the Best Student Paper and Poster Competition held during the annual meeting of the Society for Integrative and Comparative Biology, January 3-7, 2016, in Portland, Oregon. There were 11 high quality competitors. The **Best Student Oral Presentation Award** was presented to **Joseph Pfaller** (University of Florida, Gainesville) for his talk entitled, “*Hitchhiking the high seas: global genomics of rafting crabs*” (with co-authors A. C. Payton, S. F. McDaniel and K. A. Bjorndal). The **Best Student Poster Award** was presented to **Mary Donohue** (University of Maryland, Baltimore County) for her poster entitled “*Behavioral and molecular evidence for opsin-based extraocular photoreception in stomatopod crustaceans*” (with co-authors K. L. Carlton and T. W. Cronin). Each award consists of a certificate, US\$100 cash, and a one-year membership in The Crustacean Society, including subscription to The Journal of Crustacean Biology. TCS thanks those members who served as judges and all student participants.

Christopher B. Boyko
Acting Program Officer

Hitchhiking the high seas: global genomics of rafting crabs

Pfaller, J. B., A. C. Payton, S. F. McDaniel & K. A. Bjorndal (University of Florida, Gainesville, USA)
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Crabs of the family Grapsidae are common and conspicuous inhabitants of rocky shorelines and mangrove forests across the tropical and subtropical oceans. However, one lineage – three species in the genus *Planes* – occupies the open ocean, where crabs recruit to floating debris or pelagic animals and spend the rest for their lives rafting at the surface of the ocean. Among living substrata, *Planes* crabs are frequently found associated with oceanic-stage sea turtles. Currently, there are three described species of *Planes*: *Planes minutus* (N. Atlantic and Mediterranean), *Planes major* (worldwide, except N. Atlantic), and *Planes marinus* (worldwide, except N. Atlantic). While *P. marinus* is morphologically distinct, *P. minutus* and *P. major* show very subtle morphological differences. Genetic differentiation among *Planes* species and widely distributed *Planes* populations has never been evaluated. In this study, we performed restriction-site associated DNA-sequencing (RAD-seq) based population genomic analyses to (1) test the validity of current species designations and (2) quantify genetic connectivity of globally distributed

populations. First, we found that *P. marinus* is distinct from *P. minutus* and *P. major*, but is not genetically distinct from *Pachygrapsus laevimanus*, an intertidal species. Second, we found that *P. minutus* and *P. major* are not genetically distinct and, collectively, form four intermixing populations around the world. Results of this study are not only important for understanding the ecology and evolution of *Planes* crabs, but also for understanding the process of speciation and population differentiation in a marine invertebrate with both planktonic and rafting dispersal.

Behavioral and molecular evidence for opsin-based extraocular photoreception in stomatopod crustaceans

Donohue, M. W., K. L. Carleton & T. W. Cronin (University of Maryland, Baltimore County, USA)
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Stomatopod crustaceans possess extraordinary visual systems and other unique adaptations. Stomatopod eyes contain dozens of opsins, the protein portion of a visual pigment. Until now, no studies have identified extraocular light detectors or explored opsin diversity in non-ocular stomatopod tissues. Extraocular light detectors are prevalent across animal phyla and are important for many functions, including circadian function, photolocomotory responses, and reproduction. Here, we provide behavioral and molecular evidence for extraocular photoreception in stomatopods. Sighted and blinded stomatopods flip, walk, and/or swim when illuminated more frequently than in the dark. Blinded animals responded more slowly to a light stimulus, indicating the extraocular light detectors control processes that occur on a different timescale than ocular light detectors. In a search for photopigments that could be responsible for light detection outside the eyes, we obtained transcriptomes from three separate regions of the central nervous system (CNS) of the stomatopod, *Neogonodactylus oerstedii*. Our transcriptome analyses and RT-PCR suggest that at least four opsins are expressed in the CNS. These data indicate that stomatopods probably possess opsin-based extraocular photoreceptors. Future work will explore the location and possible electrophysiological photoresponses of these putative photoreceptors.



Minutes of the Crustacean Society *January 4, 2016*

Present: Shane Ahyong (President), Mary Belk (Executive Director), Chris Boyko (Program Officer), Peter Castro (JCB Editor), D. Christopher Rogers (North American Governor), Brian Tsukimura (President-Elect), Jason Williams (Treasurer), John Zardus (SICB Liaison Officer)

Apologies: Shirley Lim (Asian Governor), Enrique Macpherson (European Governor), Ole Sten Moller (Secretary), Ingo Wehrtmann (Latin American Governor)

The Meeting was called to order by President Ahyong at 5:30 pm.

1. Lori Strong (ICC9)

Lori Strong and her assistant, both from Burk and Associates joined the meeting to discuss potential plans for the International Crustacean Congress 9 (ICC9) to be held in Washington DC. Lori is currently determining the most suitable dates for the meeting that optimise availability, price, location and accessibility in the DC area. Access to the Smithsonian Institution will be an important consideration. Keith Crandall, Rafael Lemaitre, and Chris Tudge will form the local organizing committee for ICC9.

2. Treasurer's Report

Treasurer Williams presented 2015 actual and 2016 proposed operating budget. It was noted that Brill was yet to present invoices for 2015 color printing costs. The 2015 budget will close at -\$28,000, very close to original projections; the deficit will be covered by TCS investment earnings.

3. Budget 2016

Treasurer Williams proposed a new budget for 2016, which will be in deficit given the current (non-investment) income profile; the deficit will be covered by TCS investment earnings. President Ahyong moved we adopt the 2016 budget, seconded by Treasurer Williams and Editor Castro. The Board passed the budget unanimously.

4. Election results

President-Elect Tsukimura presented results of the Nov 2015 half-Board Elections for positions starting 2016. Elected officers are as follows: Shirley Lim (President Elect); Joanne Taylor (Program Officer); Benny Chan (Asian Governor); Ingo Wehrtmann (Latin American Governor).

5. Oxford University Press (OUP)

At 8pm, Ian Sherman (OUP) briefly joined the meeting to discuss the potential move of Journal of Crustacean Biology from Brill to OUP. JCB will remain with Brill through 2016, with the first OUP published issue in 2017. A three person OUP team will work with the TCS Board to smooth the transition in preparation for the 2017 changeover. OUP will manage any billing to authors (currently handled by TCS). The changeover will also be an ideal stage to update journal format/presentation. A publishing contract with OUP will need to be signed by April 2016 for JCB to be listed by OUP for the May sale of consortia. Under OUP, the JCB Editor will have access to a personal contact editor from OUP available at all times. OUP is highly flexible in relation to expanding the number of issues/articles published per volume.

6. JCB Editor's Report

JCB Editor Castro provided a summary of numbers of articles published in 2015, with a breakdown by country of origin. For 2016, Vol. 36(1) is in press; 36(2) is yet to be completed with 9 accepted manuscripts and 21 submissions in revision. Two JCB Associate Editors who have completed their terms were gratefully acknowledged: Gerhard Scholtz and Won Kim. Five new Associate Editors were introduced to expand the editorial team: Carola Becker, Oliver Coleman, Ka Hou Chu, Rod Feldmann, and Elena Mente.

7. Future of TCS Committee report recommendations

a. Website update. President-Elect Tsukimura updated the board on features of the new website. He demonstrated the web-access portal that enables members to register research interests and contact details into a searchable database.



Minutes of the Crustacean Society
January 4, 2016
continued.....

7.Future of TCS Committee report recommendations *continued.....*

b.Executive Director tasks. It was noted that current duties of the Executive Director will continue into 2016. The roles and responsibilities will change, however, when website responsibilities are transferred to the Secretary (2016/17) and when OUP is takes over billing for JCB page charges in 2017.

8.SICB Liaison Officer Report

SICB Liaison Officer noted the success of TCS sponsored symposia at the current SICB Meeting and noted that 2017 SICB Symposia being supported by TCS on arthropod body plans and climate change are well on track.

9.Request for conference support. – Nuno Simoes

A request from Nuno Simoes was received for support for national carcinological meeting in Mexico, October 2016 (X Reunion Nacional Alejandro Villabos National Meeting) was received. Given that the conference fits the mission of TCS and that TCS members are involved in the meeting as participants and organizers, President Ahyong moved to offer \$500 cash support to be directed towards student participation, seconded by Governor Rogers. The motion was passed unanimously.

10.Acknowledgement of Fred Schram

To acknowledge former JCB Editor Fred Schram's long standing contribution to the success of JCB and his retirement as Editor, President Ahyong proposed a gift be given to Fred on behalf of TCS (to be organized by President Ahyong), unanimously supported by the board. Editor Castro indicated an article about Fred will be published in JCB 36(2).

The Meeting was closed by President Ahyong at 10:35 pm.



13th International CONFERENCE on COPEPODA

Pre-Conference Workshop:

July 10-14, 2017

Scripps Institution of Oceanography

San Diego - La Jolla, California

Main Conference:

July 16-21, 2017

Cabrillo Marine Aquarium and DoubleTree Hotel

Los Angeles - San Pedro, California

July 16 - 21, 2017

Cabrillo Marine Aquarium

Los Angeles, California

USA



Main Conference Venues

Cabrillo Marine Aquarium

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San Pedro, CA 90731

CMA is a trusted resource that inspires exploration, respect and conservation of Southern California marine life. The historic Frank Gehry-designed aquarium displays the largest living collection of Southern California marine life in the world.

DoubleTree by Hilton San Pedro

2800 Via Cabrillo Marina
San Pedro, CA 90731

Overlooking the Cabrillo Marina and walking distance to Cabrillo Marine Aquarium and the beach, this hotel is a 30-minute drive from Los Angeles International Airport (LAX).

Please note: There are over 12 DoubleTree Hotels in the Los Angeles area. Take care to always specify the "DoubleTree in San Pedro – Port of Los Angeles" for all conference activities.



For more info visit:
<http://www.13COC.org>