



The Ecdysiast

Newsletter of The Crustacean Society

Message from the President...

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Dear TCS Colleagues,

2016 has been a year of transition and continued learning. We are continuing to expand as a society, with new programs, scholarships and awards. My hope is that the regional Governors will spend time at local meetings recruiting new members. We are increasing opportunities for both students and early career post-docs. The TCS leadership invites our membership to attend our Annual Business Meeting in January associated with the Society for Integrative and Comparative Biology (SICB). In New Orleans (2017), TCS sponsored three terrific symposia: The Evolution of Arthropod Body Plans – Integrating Phylogeny, Fossils and Development; Low Spatial Resolution Vision - Function and Evolution; and a society-wide symposium entitled Symposium: Indirect Effects of Global Change: from Physiological and Behavioral Mechanisms to Ecological Consequences. My hope is that our membership in conjunction with our leadership can develop or sponsor similarly broad symposia for future SICB meetings (deadline for symposia proposals to SICB 2019 is August 24, 2017) and International Crustacean Congress – IX (ICC-IX; occurring May 22 – 25, 2018 in Washington, D.C.), as well as future TCS summer meetings.

As a result of the Fall elections, I wish to congratulate our new officers: Sarah Gerken as Secretary, Rachel King as Indo-Pacific Governor, Carola Becker as European Governor, and Christopher Rogers as North American Governor. I look forward to completing my term with these TCS board and continuing to move our society forward. I would also like to welcome Darren C.J. Yeo to the Editorial Board.

I hope that all of you have had a chance to view our new editions of JCB with Oxford University Press. I believe that with the enduring efforts of our Editor-in-Chief, Pedro Castro, that our first edition is very well done and that the journal (and its articles) will have a greater exposure across the academic and museum communities.

continued.....



We are working through a few bumps along the way, but I believe that we can have these resolved relatively quickly. We can thank Past-President Shane Ahyong for the cover of this year's edition.

I would like to alert our membership to the upcoming ICC-IX meeting in Washington D.C. in 2018. The dates are May 22 – 25. Drs. Raphael Lemaitre, Chris Tudge, Amanda Windsor and Keith Crandall have been working tirelessly to organize this meeting. We will have a website up for the meeting shortly. We will present more at the Barcelona Meeting. Please contact one of us if you have symposium ideas.

I look forward to meeting everyone in Barcelona this summer. The Organizing Committee, led by Professor Enrique McPhearson, is preparing an outstanding conference for us, and they have secured excellent plenary lectures, including one of the TCSERA recipients, Dr. Amir Sagi. There are 172 early registrants, making this meeting one of the larger ones since ICC8. 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.

With Aloha,
Brian Tsukimura



Crustacean Society Patron

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Les Watling





The Crustacean Society Board Members, 2017

President

Brian Tsukimura
California State University, Fresno
email: brian@csufresno.edu

President-elect

Shirley S.L. Lim
Nanyang Technical University, Singapore
email: shirley.lim@nie.edu.sg

Past-President

Shane T. Ah Yong
Australian Museum, Sydney
email: Shane.AhYong@austmus.gov

Treasurer

Jason Williams
Hofstra University, New York
email: Jason.D. Williams@hofstra.edu

Secretary

Sarah Gerken
University of Alaska, Anchorage
email: gerken.uaa@gmail.com

Editor-in-Chief, Journal of Crustacean Biology

Peter Castro
California Polytechnic University, Pomona
email: jcb@whidbey.com

Executive Director

Mary Belk
San Antonio, Texas
email: tcs1921@yahoo.com

Program Officer

Joanne Taylor
Museum Victoria, Melbourne
email: jtaylor@museum.vic.gov.au

Executive SICB Liaison Officer

John Zardus
The Citadel, South Carolina
email: john.zardus@citadel.edu

Asian Governor

Benny K.K. Chan
Research Centre for Biodiversity, Academia Sinica
email: chankk@gate.sinica.edu.tw

European Governor

Carola Becker
Queen's University, Belfast
Email: c.becker@qub.ac.uk

Indo-Pacific Governor

Rachael King
South Australian Museum, Adelaide
email: Rachael.King@samuseum.sa.gov.au

Latin American Governor

Ingo Wehrtmann
Universidad de Costa Rica, Costa Rica
email: ingowehrtmann@gmx.ed

North American Governor

D. Christopher Rogers
Kansas University, Kansas
email: branchiopod@gmail.com

The Ecdysiast is published twice yearly in May and November and it is available in electronic form at http://www.crustaceansociety.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 publications and any other crustacean news.

Send all material directly to the editor:

Sarah Gerken, Department of Biological Sciences, University of Alaska, Anchorage, 3211 Providence Dr., Anchorage, Alaska, USA 99517
gerken.uaa@gmail.com



The Crustacean Society Board Members, 2017

The Chinese Crustacean Society Liaison Officer

Jianhai Xiang
CAS Institute of Oceanology, China
Email: jhxiang@qdio.ac.cn

International Association of Astacology Liaison Officer

Tadashi Kawai
Wakkanai Fisheries Research Institute, Hokkaido,
Japan Email: kawai-tadashi@hro.or.jp

The Brazilian Crustacean Society Liaison Officer

Fernando Mantelatto
University of São Paulo, Brazil
Email: flmantel@usp.br

The Carcinological Society of Japan Liaison Officer

Akira Asakura
Seto Marine Biological Laboratory, Kyoto
University, Japan
Email: asakura.akira.6w@kyoto-u.ac.jp

The World Association of Copepodologists Liaison Officer

Rony J. Huys
Natural History Museum, London, UK
Email: r.huys@nhm.ac.uk

International Research Group on Ostracoda

Liaison Officer: Renate Matzke-Karasz
University Munich, Germany
Email: r.matzke@lrz.uni-muenchen.de

Latinoamerican Carcinologist Association Liaison Officer:

Michel Hendrickx
Unidad Academica Mazatlan, Mazatlan, Mexico
Email: michel@ola.icmyl.unam.mx

Colloquium Crustacea Decapoda Mediterranea Group Liaison Officer

Enrique Macpherson
Centro de Estudios Avanzados de Blanes, Spain
Email: macpherson@ceab.csic.es

Terrestrial Isopod Biologists Group Liaison Officer

Jasna Strus
University of Ljubljana, Slovenia
Email: jasna.strus@bf.uni-lj.si

Large Branchiopod Working Group Liaison Officer

D. Christopher Rogers
Kansas University, Kansas
Email: branchiopod@gmail.com

Amphipod Group Liaison Officer

Wim Vader
Tromsø Museum, Norway
Email: wim.vader@uit.no

German Carcinologist Group Liaison Officer

Sebastian Klaus
Goethe University, Frankfurt, Germany
Email: klaus@bio.uni-frankfurt.de

TCS Travel Awards: Early Career Awards

The Crustacean Society (TCS) awards up to three \$1500 travel grants for early career researchers (awarded Ph.D. within 5 years of the application deadline). The grants are for researchers to present results of their work on any field of study involving crustaceans at a TCS meeting (SICB, Mid-Year, or ICC). We are very pleased to announce the following successful recipients for 2017.

Dr Joey Pakes Nelson (Harvard University, USA)

Drivers of microbiome community structure in remipedes and shrimp endemic to submerged cave systems (Oral presentation, 2018 SICB meeting in San Francisco).

Dr Sharmistha Shyamal (University of Oklahoma, USA).

A transcriptomic approach examining crustacean Y Organ molt cycle regulation via the mTOR signaling pathway (Oral presentation, 2017 TCS meeting in Barcelona).

Dr Theresa L. Su (Nanyang Technological University, Singapore).

Impact of an oil spill on the distribution of the soldier crab, *Dotilla wichmanni* 2016 (Oral presentation, 2017 TCS meeting in Barcelona).



TCS Travel Awards: Student Awards

The Crustacean Society annually awards up to ten \$500 awards to support student attendance at TCS meetings (SICB, Mid-Year, or ICC). The TCS Board congratulates all recipients of the 2016 awards, and we are very pleased to announce the following successful recipients for 2017.

Shai Malkiel Abehsera (Ben-Gurion University of the Negev, ISRAEL)

Crustaceans as ideal structural-biology study organisms using specialized NGS techniques (2017 TCS meeting in Barcelona)

Jennifer Chandler (University of the Sunshine Coast, AUSTRALIA)

Identification of the first sex-linked Dmrt in an invertebrate: Sex determination in the decapod crustacean *Sagmariasus verreauxi* (2017 TCS meeting in Barcelona)

Charlene Goh (Nanyang Technological University, SINGAPORE)

Capillary water uptake in two fiddler crab species, *Austruca annulipes* and *Gelasimus vocans* (2017 TCS meeting in Barcelona)

Stephanie Köhnk (Kiel University, GERMANY)

Hold your pleon tight – variability of pleon-holding structures in selected eubranchyurans (2017 TCS meeting in Barcelona)

Jannes Landschoff (University of Cape Town, SOUTH AFRICA)

Differentiation of three common and abundant deep-water hermit crabs co-existing with South African hake (*Merluccius* spp.). (2017 TCS meeting in Barcelona)

Valentin de Mazancourt (Museum national d 'Histoire Naturelle, FRANCE)

The “Pinocchio-shrimp effect”, or how environment affects rostrum morphology in freshwater shrimps (Decapoda: Atyidae: Caridina). (2017 TCS meeting in Barcelona)

Anna Neretina (Severtsov Institute of Ecology and Evolution, RUSSIA)

A revision of the *Macrothrix paulensis* (Branchipoda) group in tropical regions of the earth. (2017 TCS meeting in Barcelona)

Jorge Perez-Moreno (Florida International University, USA)

Phylotranscriptomic analyses illuminate the evolution and diversity of visual opsins in Crustacea (2017 TCS meeting in Barcelona)

Justin Scioli (University of Louisiana, USA)

Molecular phylogeny and biogeography of the *Alpheus* “macrocheles” species group (2017 TCS meeting in Barcelona)

Zandra Sigvardt (Natural History Museum, DENMARK)

Systematics and evolution of laevicaudatan and spinicaudatan clam shrimps (2017 TCS meeting in Barcelona)

Treasurer's Report

First, I would like to thank the society for the opportunity to continue as treasurer. It is an exciting time for TCS as we see the successful transition of the Journal of Crustacean Biology to Oxford University Press. As reported at the SICB meeting in New Orleans, TCS ran a deficit of ~43K in 2016. However, with the switch to Oxford University Press, the society projects that the 2017 budget will have a small positive net income (see the 2016 Actuals and 2017 Proposed Budget provided separately). Our net income for 2017 would be higher but after finalizing the budget, the society had to pay for reinstatement as a non-profit organization in Washington, D.C. In addition to the meeting in New Orleans, the TCS Finance Committee has communicated (via skype) to consider issues including entering discussions with Burk and Associates, Inc. (BAI) who can provide services for management of society finances. BAI partners with other societies (e.g., SICB) to cover key aspects such as membership dues and support, accounting and financial services, bookkeeping, taxes and compliance issues. Our hope is that partnership with BAI will be within the budget currently afforded to the Executive Director position and they will be able to provide enhanced support for our membership. Currently, the society has 344 members renewed for 2017 and we hope to raise membership to our projected goal of 400 in subsequent months.

Respectfully submitted,
Jason Williams





TCS Best Student Paper and Best Student Poster Awards SICB New Orleans, 2017

The Crustacean Society (TCS) is pleased to announce the winners of the Best Student Paper and Poster Competition held during the joint meeting with SICB and The Crustacean Society, January 4-8, 2017, in New Orleans.

The best student Oral Presentation Award was presented to Samantha MacKay (Grand Valley State University) for her talk “Chronic Effects of Nonylphenol on Reproductive Behavior and Development of Crayfish”.

The best student Poster Award was presented to Alyssa Liguori (Stonybrook University) for the presentation entitled “Multigenerational responses to lowered pH in the copepod *Tigriopus californicus*”.

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.

Abstracts of the major prize winning presentations:

Chronic Effects of Nonylphenol on Reproductive Behavior and Development of Crayfish MacKay, S.B., Brereton, C., Bergman, D.A.

Nonylphenol (NP), an alkylphenol, is a commonly used surfactant in a variety of industries. Its chemical structure is composed of hydrophobic and hydrophilic regions, allowing for polar and nonpolar substances to be easily miscible. It is incredibly versatile, producing around 500,000 tons of alkylphenols annually. Due to its structure, NP shows an affinity for estrogen receptors, hence its classification as an endocrine disruptor; a potential danger to reproductive success. Various alkylphenols accumulate in aquatic environments and have been shown to have effects on both aquatic vertebrates and invertebrates. Moreover, several studies have shown the reduction in olfaction from NP exposure. As crayfish rely on olfaction in mating and courtship, impairment in this system would also lead to a decreased ability to locate a mate. Due to the endocrine disruptive effects of alkylphenols observed in testis development and diminished sperm production in a variety of species, crayfish are likely to exhibit similar results when chronically exposed to sublethal NP concentrations. We hypothesize that both juvenile and adult crayfish will exhibit a dose dependent decreased ability to locate a mate that will continue to decrease over extended exposure. After chronic exposure,

we also expect the juvenile male crayfish exposed to increased sublethal NP levels will exhibit decreased testis development, while female juveniles will exhibit increased ovary size relative to controls. Observing both the behavioral and developmental effects of low but chronic NP exposure will provide insight to its potential effects on crayfish courtship, and subsequent ramifications on crayfish populations and ecosystems at current EPA level guidelines.

Multigenerational responses to lowered pH in the copepod *Tigriopus californicus* Liguori, A.L.

Unprecedented increases in atmospheric carbon dioxide over the past century have resulted in a global reduction of seawater pH, or ocean acidification (OA). To date, the majority of studies on biological responses to OA involve short-term experiments where a single life stage is exposed to seawater chemistries predicted to occur in the future. Few studies address the influence of long-term acclimation and the potential for adaptive evolution to OA. I performed multigenerational experiments on the harpacticoid copepod *Tigriopus californicus* to investigate long-term responses to increased acidity. I collected copepods from supralittoral splash pools at four geographically isolated sites on San Juan Island, WA to maximize potential genetic variation in laboratory cultures. Reproductive F0 females from each population were allocated to three pH treatments: 8.0 (control), 7.5, and 7.0. To elucidate the effects of historic pH exposure on current performance, F1 reproductive females were split into three groups: one group kept in the same treatment and the other two groups transplanted into the other two treatments. The copepods were maintained in these treatments through the F2 generation (experimentation on subsequent generations is ongoing). For each generation and population, I quantified survivorship, fecundity, development time, and morphology. Preliminary data show that fecundity is reduced in the 7.0 pH treatment. This suggests that responses to low pH may involve changes in energetics and resource allocation. There seems to be no effect on adult survivorship, which is not surprising considering the extreme abiotic conditions in the splash pool habitats of *T. californicus*. Differences in responses among populations were also observed. Thus, there may be local adaptation to different environmental conditions within isolated habitats on San Juan Island.



TCS Graduate Fellowships in Graduate Studies 2017 Awards

The Crustacean Society annually awards up to six US\$1000 scholarships in graduate studies on crustaceans. We are very pleased to announce the following successful recipients for 2017.

Robert Ditter: Underworldly connections: Population structure and connectivity among anchialine crustaceans. Ditter is a Ph.D. student at Florida International University, USA, supervised by Dr. Heather Bracken-Grissom

Gaya Gnanalingam: Reproductive biology of the Caribbean spiny lobster *Panulirus argus*. Gnanalingam is a Ph.D. student at Old Dominion University, USA, supervised by Dr. Mark Butler.

Lunden Simpson: Impact of infection by a parasitic nemertean, *Carcinonemertes conanobrieni* (sp. nov.), on the reproduction of its host, the Caribbean spiny lobster, *Panulirus argus*. Simpson is a Master's student at Clemson University, USA, supervised by Dr. Antonio Baeza.

Sam Smithers: Vision at the limits: can ghost crabs use polarization vision for target detection in dim light? Smithers is a Ph.D. student at University of Bristol, UK, supervised by Dr. Martin How.

Alexandra Steele: How various routes of entry of a toxicant may differentially impact aquatic ecosystems and specifically crayfish behavior. Steele is a Ph.D. student at Bowling Green State University, USA, supervised by Dr. Paul Moore.

Cara Van Der Wal: Assessing the conservation status and genetic diversity of two endemic freshwater crayfish, *Euastacus spinifer* and *Euastacus australiensis* using integrative approaches. Van Der Wal is a Ph.D. student at the Australian Museum, Sydney, AUS, supervised by Dr. Shane Ahyong.

Journal of Crustacean Biology Editorial Report Volume 36: 2016

Last year was eventful for *Journal of Crustacean Biology*. Volume 36 was the last published by Brill Publishers, and the journal began its transition to Oxford University Press (OUP). The past year was a good one for JCB for other reasons. The number of published articles remained strong, a total of 99, the most ever, a slight increase over 96 in 2015 and 98 in 2012. Volume 36 totaled 877 pages versus 866 pages in volume 35 (2015). A total of 714 manuscripts were submitted by December 31, 2016, with 468 accepted and 246 rejected, a 34.5% rejection rate that was identical to the estimated value for volume 35 (2015). The 2015 impact factor, the latest available according to the InCites Journal Citation Report, was 0.922, down from 1.081 in 2014 and 1.187 in 2013, but higher than the low values of 0.608 in 2006 and 0.525 in 1999.

Three sections, namely ecology, techniques and methods, and two special sections (one on the biology of Peracarida and the second on the biology of crayfishes), contained the most articles, with 15 each. Comparisons of the current sections with those of previous years is nevertheless difficult because of changes in the classification scheme, highlighted by the appearance of new sections in reproductive biology and techniques and methods. Articles that would have been included in the section of evolution and biogeography were included instead in the sections of phylogeny and taxonomy, ecology, and genetics and genomics. Book reviews have been transferred to *The Ecdysiast* in an effort to create more space for research articles.

Our journal is truly an international one, with 2016 articles authored by researchers from 37 nations and territories.



Journal of Crustacean Biology

Editorial Report

Volume 36: 2016

The transition to OUP started in the fall of 2016 and it is now completed. We should expect an improved performance in 2017, including the impact factor, as a result of our move from Brill to OUP. In contrast to Brill, OUP offers greater visibility and potential readability, much more efficient editorial support, faster publication time, and vastly better organized marketing effort.

Our appreciation goes to the hard-working members of JCB's Editorial Board: Antonio Baeza, Ray Bauer, Carola Becker, Niel Bruce, Ka Hou Chu, Oliver Coleman, Keith Crandall, Rodney Feldmann, Mark Grygier, Rafael Lemaitre, Eleni Mente, Paul Moore, Christopher Rogers, and Bernard Sainte-Marie. Two new members were added in 2016: Colin McLay (Canterbury University, New Zealand) and Darren Yeo (National University of Singapore). Members of the board represent ten nations.

Subject spread of the 99 articles of Vol. 36 (2016)

	2011	2012	2013	2014	2015	2016
Ecology	24	19	23	11	18	15
Special sections	5	4	3	2	11	15
Techniques & methods	-	-	-	-	-	15
Phylogeny & taxonomy	5	13	7	10	15	9
Behavior	6	5	2	2	4	8
Reproductive biology	-	-	-	-	-	7
Aquaculture	-	1	8	7	4	6
Genetics & genomics	5	5	5	5	1	5
Larvae & development	7	6	4	7	2	5
Paleobiology	3	6	2	1	5	5
Obituaries/history	-	-	-	3	3	4
Conservation	-	1	4	0	2	2
Short communications	5	6	5	4	2	2
Physiology	1	10	6	8	9	1
Anatomy & morphology	10	8	3	7	5	-
Book reviews	3	4	6	2	2	-
Subject reviews	-	-	1	2	2	-
Evolution & biogeography	10	9	8	11	11	-
Total	84	98	88	80	96	99





Journal of Crustacean Biology
Editorial Report
Volume 36: 2016

Nations and territories represented by authors of articles of Vol. 36 (2016)

	2011	2012	2013	2014	2015	2016
USA	70	74	99	65	77	87
China	14	-	24	40	35	28
Brazil	13	28	32	39	36	22
Japan	31	27	5	12	24	19
Argentina	8	24	10	15	2	16
Australia	6	13	2	5	5	16
Croatia	-	-	-	-	4	9
UK	8	11	4	11	17	9
Taiwan	10	9	2	8	6	8
Canada	11	4	6	7	4	7
Norway	1	-	1	-	2	6
Belgium	3	-	3	5	6	5
Thailand	3	4	2	-	2	5
Germany	10	17	14	14	12	4
Italy	-	-	12	11	17	4
South Korea	2	3	7	22	16	4
Spain	6	14	10	17	3	4
Denmark	1	2	1	1	5	3
Ireland	-	-	-	-	4	3
Singapore	4	3	-	-	7	3
Chile	12	13	4	5	2	2
Costa Rica	2	2	5	1	-	2
Egypt	-	-	-	-	-	2
Mexico	5	21	7	25	4	2
Poland	-	-	-	-	2	2
Côte d'Ivoire	-	-	-	-	-	1
Cuba	-	-	-	-	-	1
France	4	5	-	-	5	1
Guatemala	-	-	-	1	-	1
Malaysia	-	-	-	-	-	1
Netherlands	-	1	1	1	3	1
New Zealand	2	-	6	-	-	1
Pakistan	1	-	-	-	-	1
Panama	2	-	1	1	1	
Russia	-	2	1	1	4	1
South Africa	1	2	4	4	-	1
U.S. Virgin Islands	-	-	-	-	-	1





Minutes of the Crustacean Society Board and Business Meetings Held at the 2017 Society of Integrative and Comparative Biology (SICB) Annual Meeting in New Orleans, LA. 5 January 2017

Present: Mary Belk, Peter Castro, Shirley Lim, Christopher Rogers, Joanne Taylor, Brian Tsukimura, Jason Williams, and John Zardus

President Brian Tsukimura brought the meeting to order at 5:45 and welcomed all to the meeting. He introduced Oxford University Press editors Ian Sherman and Neil Scriven. Brian extended thanks for Ian's work in the transition of the Journal of Crustacean Biology to OUP. Ian explained how Neil would be taking over his work with JCB and gave a brief report on the status of the transition. The board asked Ian some financial questions and determined that OUP would be dealing with page charges and ensuring authors have made paid prior to publication. OUP will pay stipends to JCB Editor Peter Castro twice per year and the January payment is in process. TCS payment to OUP based on membership will be charged in early 2018 once member dues for the 2017 year are finalized. Ian also noted that OUP is in the process of completing the JCB archive and explained that OUP provides Peter with a Managing Editor to help with submissions. Peter added details on the status of the transition to OUP based on his work in getting out the first issue. In consultation with OUP, Peter has decided that Book Reviews and In Memorium are better placed in the Ecdysiast. However, JCB will have a "News from TCS" section in which these materials could be highlighted in brief, as well as notes on the society meetings and other current events.

President-Election, Shirley Lim reported the TCS election results:

Treasurer: Jason Williams

Secretary: Sarah Gerken

SICB Liaison – John Zardus

North American Governor: Christopher Rogers

European Governor: Carola Becker

Indo-Pacific Governor: Rachael King

The service of previous TCS board members including Secretary Ole Sten Møller were acknowledged by board and we appreciate all the work they have done for the society over the years. Thank you!

Since the Ecdysiast editor Sarah Gerken has been elected as the new Secretary for TCS, the board discussed who would take over as editor. It was agreed that President Brian Tsukimura would contact Sarah and consult with her prior to soliciting for a new editor.

Treasurer Jason Williams gave a report on the current finances of TCS. In brief, he indicated that at the end of 2016 TCS had 410 members but only 219 members had renewed for 2017. As expected, TCS had a deficit at the end of 2016, with some additional page charges for JCB remaining unpaid. Schwab account earnings will be used to cover the deficit. With the move to Oxford University Press, the Finance Committee projects a positive budget for TCS in 2017 (see separate Treasurer's Report for details). The board discussed implementing a system where TCS members would be sent an official invoice for the journal to encourage renewal and receipt upon payment, with clear instructions on how to access the journal online.

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Minutes of the Crustacean Society Board and Business Meetings Held at the 2017 Society of Integrative and Comparative Biology (SICB) Annual Meeting in New Orleans, LA. 5 January 2017

Program Officer Joanne Taylor reported on TCS Scholarships and Travel Grants, which are due on 31 March 2017. She brought up the question of whether students could be awarded TCS funds multiple times. The board voted (unanimously) to allow students to receive registration awards and best oral/poster awards more than once. However, student scholarship awards and the early career travel grant would only be awarded once per applicant. The forms for the TCS Scholarships and Travel Grants will be updated to reflect this decision. The board also decided to continue considering any student working on crustaceans (regardless of status as a TCS member) for best oral/poster awards if they check the box in the SICB online form when registering for the conference. President Brian Tsukimura noted that he had been in discussion with the President-elect of SICB about improvement of TCS presence on the SICB website, including making it more clear to students how they sign up to be considered for an award.

President Brian Tsukimura gave a report on the status of the TCS website and indicated (as already reflected in the 2017 proposed budget) that approximately \$3K was needed to update the website. After the website is updated (based on suggestions from the board), the Secretary and other board members will have access to be able to update the website as needed. In addition, payments will be streamlined and searchable database of TCS membership (including their areas of expertise) will be accessible.

President Brian Tsukimura concluded the meeting with a discussion of the upcoming conferences, including:

The TCS Mid-Year Meeting in Barcelona, Spain (19-22 June 2017), the TCS Winter Meeting (with SICB) in San Francisco, CA (3-7 Jan 2018), and the International Crustacean Congress (ICC – IX) in Washington, DC 22-25 May 2018.

Program Officer Joanne Taylor elaborated on the preparations for the ICC-IX based on her recent discussion with Past-President Chris Tudge (one of the organizers for the ICC-IX). TCS members are encouraged to propose symposia for the upcoming ICC-IX and SICB conferences and contact Program Officer Joanne Taylor or President Brian Tsukimura with their ideas.

The board meeting was adjourned at 9:15 pm.

Note on the TCS Business Meeting (held 6 Jan 2017):

President Brian Tsukimura awarded the 2016 TCERSA to Dr. Amir Sagi, who has graciously agreed to give a plenary talk at the upcoming summer TCS meeting in Barcelona. As at the board meeting and indicated above, Program Officer Joanne Taylor, Treasurer Jason Williams, and President Brian Tsukimura gave their reports to the members present.

Dr. Ray Bauer had the very good suggestion that TCS make it clear to the membership (as well as potential members, donors and patrons) why the society needs their continued financial support. President Tsukimura and Treasurer Jason Williams responded to his important question and details elaborating on this are provided separately in the Treasurer's report for further details.

Respectfully submitted,
Jason Williams