November, 2017

Volume 36, 2

Inside .....



### Message from the President...

Special Thanks to Mary Belk

••••••
TCS Board Members3–4
Treasurer's Report5
Journal of Crustacean Biology,
Editorial Report5–8
Relationship between TCS and
IAA7, 9
Best Student Awards, TCS
meeting Barcelona10–11
18th International Symposium
on Ostracoda12–14
TCS Elections, 2017 Candi-
dates15–19
ICC IX, 2018, Washington
D.C20
X Brazilian Crustaceans Con-
gress, 201821–22

Dear TCS Colleagues,

Season Greetings! I wish to thank everyone for making my time as President so rich and rewarding. TCS is continuing to undergo changes. This past year we switched publishers to Oxford University Press, and I hope that you are enjoying the new format. Editor-in-Chief, Dr. Peter Castro, has used his leadership and diligent work to get each issue out; also, he is negotiating on getting our cover changed more than once a year. The first JCB issues had some printing delays, but I believe that we are nearly back on track! Many have noticed that our website was updated, we have been working with a new designer to create this site. More changes will being coming about, including a searchable membership that exists behind the login page. As of October 1, Burk and Associates, Inc. (BAI), will have taken over our managerial office. BAI is currently assisting us with ICC-IX organization, and by January 1, have taken over the entire business office. Included with the BAI service is a full time webmaster as well. A special thanks to Mary Belk for her fine service to TCS. Please see a special section below for Mary.

**Muchas Gracias** to Enrique McPherson and all the Barcelona assistants who tirelessly organized our TCS Summer meeting. It was one of largest meetings in recent history! The meeting venue at Cosmo Caixa provided great lecture halls, with a fantastic museum on the lower floors. The nearby area was full of great restaurants to visit and dine with new and old friends. The banquet, held at a converted monastery where a delicious roasted lamb was served, provided the perfect venue to award Dr. Michel Hendrickx the TSC Excellence in Research Award.

I wish to thank the members of our governing board who are stepping down after years of fine service to TCS. Shane Ahyong will be stepping down as Past-President, Joanne Taylor as Program Officer, Benny KK Chan as Asian Governor and Ingo Wehrtmann as Latin American Governor.

I hope that many of you will be able to attend the Joint meeting with the Society for Integrative and Comparative Biology [http:// www.sicb.org/meetings/2018/index.php] meeting in San Francisco in January 3–7, 2018. Please attend our annual Business meeting for the latest updates. I hope to see the membership attend the International Crustacean Congress-IX in Washington D.C. in May 2018 (5/22–25). Day One will be held at the Smithsonian Museum. The Organizing Committee, composed of Rafael Lemaitre, Chris Tudge, Keith Crandall and Amanda Windsor, have been coordinating a great program for



everyone. This is the first ICC to be held in the US, and the first TCS summer meeting in Washington D.C.

Again, it has been my honor to serve you and I hope that we will all be able to stay in touch as we continue our incredibly fascinating research.

Much Aloha, Brian



### **Crustacean Society Patron Members**

Shane T. Ahyong Raymond Bauer Mary S. Belk Lene Buhl-Mortensen David K. Camp Peter Castro Paul Frederick Clark Keith A. Crandall Neil Cumberlidge Rodney M. Feldmann Michael Gable Sandra L. Gilchrist Joseph W. Goy Mark J. Grygier Niels Hobbs Jens T. Hoeg John J. McDermott Gary C.B. Poore Stefan Richter D. Christopher Rogers **Bernard Sainte-Marie** Frederick R. Schram Carrie E Schweitzer Chang Tai Shih Jorundur Svavarsson Brian Tsukimura Christopher Tudge Jose Luis Villalobos Hiriart Les Watling

# **Special Thanks to Mary Belk, Executive Director**

On behalf of the current Board, and all past boards, we wish to give Mary Belk (former Treasurer and Execu- Brian Tsukimura, President, The Crustacean Society tive Director) our warmest heartfelt thanks for long service and devotion to The Crustacean Society. Mary Shane Ahyong, Past-President treated TCS as her second home and worked relentlessly to improve the TCS financial status, devoting Christopher Tudge, Past-President much time to TCS members, organizing membership, and attending TCS meetings. Mary started with the Rafael Lemaitre, Past-President TCS Board as Treasurer in 2003, and was re-elected until she developed the Executive Director position in Akira Asakura, Past-President 2011. As Executive Director, she navigated the helm until the end of this year. Mary was instrumental in the

move from Allen Press to Brill Publishing, and worked tirelessly to recover from the financial collapse of the stock markets almost a decade ago. Such service is rare in any organization, as we must thank her for all her efforts to steering this ship with such dedication. We all wish her well in her retirement.



## The Crustacean Society Board Members, 2017

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

### **President-elect**

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

### **Past-President**

Shane T. Ahyong 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 Offi cer 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: Kelly Merrin, kellymerrin@hotmail.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: tadashikawai8@gmail.com

> 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



## **Treasurer's Report for November 2017**

Currently, TCS has nearly over 360 members (178 online members, 74 and student members, 81 print and online members, and 28 patron members). Due largely to the switch to Oxford University Press, it is anticipated that the society will have a positive net income in 2017 (~US\$ 10K). Members of the Financial Committee (President Brian Tsukimura, President-Elect Shirley Lim, Past-President Shane Ahyong, Treasurer Jason Williams, JCB Editor Peter Castro) have voted to hire Burk and Associates, Inc. (BAI) to provide financial services for the society starting in January 2017 with a transition period this fall. BAI will take on the services (including membership dues and support, accounting and financial services, bookkeeping, taxes and compliance issues) currently provided by the Executive Director Mary Belk. BAI partners with The Society of Integrative and Comparative Biology (SICB) and is already working with TCS in the organization of the International Crustacean Congress 9 (ICC 9) in Washington, DC. The Financial Committee would like to thank Mary for her many years of work on behalf of the society; she has been a steady advocate for the endeavors of TCS – particularly the support of student members. As treasurer, I have been fortunate to have her help in navigating TCS finances. We wish her well in the coming years and upcoming adventures!

The costs of BAI and the upcoming ICC 9 will likely cause a shortfall in 2018; however, we will use earnings from the Schwab account investments (which presently total approximately US\$550K) to cover the gap. I join the ICC 9 organizing committee in urging all members and their students to attend the meeting and make sure to stay at the conference hotel (Renaissance Washington DC Hotel). The hotel rates were negotiated by TCS to provide complimentary meeting room space, and reduced food and beverage charges. These savings are passed on to attendees through TCS reduced registration rates and associated charges. If TCS is unable to meet its room commitment, the hotel will charge TCS an attrition fee to make up for lost revenue.

Respectfully submitted, Jason Williams

## *Journal of Crustacean Biology* Editorial Report for Volume 37 (2017)

Last year marked an important breakthrough for *Journal of Crustacean Biology (JCB)* with the publication of Vol. 37 by Oxford University Press (OUP). The transition from Brill to OUP is now complete.

The publication of *JCB* is also back on schedule. Although the wait for new issues has been long for some of us, the full issues are being published online one to two weeks before the end of the targeted month. The September 2017 issue is already online. Individual articles are published online much faster than before, in some cases two months before they appear in print. Individual articles can be accessed as soon as they are published as online Advance Access articles at https://academic.oup.com/jcb/advance-articles; the complete online issues at https://academic.oup.com/jcb. I urge members to sign up to receive automatic announcements of Advance Access articles. One to three articles have been published every week.

OUP is offering *JCB* much greater visibility and more potential readers than Brill could provide. The editorial support is outstanding. It includes a Managing Editor who efficiently keeps track of the progress of submissions (especially the review process) and operates the online Editorial Manager software, as well as a Production Editor who handles everything after manuscripts are formally accepted and transmitted to typesetters. The marketing effort is vastly better than what any publisher could offer. Articles of particular importance or interest are highlighted and OUP's marketing department will take care of preparing press releases to let the public know. It does work, and highlighted articles so far have received an unprecedented number of reads and downloads, and hopefully more citations in the future. OUP's Altmetric data (https://academic.oup.com/journals/pages/authors/article\_level\_metrics) provides all kinds of information such as online views, downloads, new-outlets pickups, blogs, and citations for each article. A highlighted *JCB* article

## *Journal of Crustacean Biology* Editorial Report for Volume 37 (2017)

that appeared online 8 weeks ago, for example, has so far received 367 page views, 144 pdf downloads, and tweeted by 21 readers!

The number of published articles remained strong, a total of 89, a decrease from the record 99 in 2016, the result of having less budgeted pages for each volume under OUP than in the case of Brill, and the inclusion of a particularly long (39 pages) but highly visible article in the September issue. Volume 37 will total 770 pages against a record 877 pages in Vol. 36 (2016). A total of 104 manuscripts were submitted by 27 September 2017. Peer review has so far been completed in 86 of these submissions, with 55.8% being accepted for further revision and 44.2% rejected. Rejection so far compares with 34.5% in both 2016 and 2015. We are definitely getting tougher in our final decisions, and higher rejection ultimately means a higher quality of published articles and hopefully a higher impact factor. The 2016 impact factor showed an important increase to 1.064, up from 0.922 in 2015, but slightly lower than 1.081 for 2014 and 1.187 for 2013.

We are also trying to speed up the time needed to process submissions. The average number of days between submission and first decision (to revise or reject) stands at 43.1, in contrast to 50.7 days in 2016 when JCB was published by Brill. We are now giving reviewers two weeks to complete their reports and this seems to be working.

Comparing current sections with those of previous years is difficult because of changes in the classification scheme as new sections appeared. Book reviews and long obituaries have been transferred to *The Ecdysiast* in an effort to create more space for research articles. A new section, News from the Crustacean Society, provides information on forthcoming meetings, fellowships, and travel awards. A new section acknowledges reviewers to manuscripts submitted for the issue.

I'm happy to announce that OUP has solved the problems encountered during the early stages of our transition from Brill. As you know, there was a long-delay in the publication of issue no. 1 (January), which was printed in poor paper and bound in a rather flimsy cover. The problems have been solved and issues now feature a thicker paper, clearer printing, a thicker plasticized cover, and the name of the journal and volume/ issue number on the spine. We will continue to publish a full-color cover, with a new color photograph scheduled for Vol. 38 (2018). Photo suggestions are more than welcome.

Our appreciation goes to all of the outstanding 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, Colin McLay, Eleni Mente, Paul Moore, Christopher Rogers, Bernard Sainte-Marie, and Darren Yeo. It's a real pleasure to work with such recognized experts in their respective fields! Two new members joined in 2017: Donald Mykles (Colorado State University, Fort Collins, CO, USA) and Tomer Ventura (University of the Sunshine Coast, Queensland, Australia). Members of the board represent ten nations.





## *Journal of Crustacean Biology* Editorial Report for Volume 37 (2017)

S	Subject spread of the 89 articles of Volume 37 (2017)									
	2011	2012	2013	2014	2015	2016	2017			
Aquaculture	-	1	8	7	4	6	1			
Behavior	6	5	2	2	4	8	7			
Conservation	-	1	4	0	2	2	3			
Ecology	24	19	23	11	18	15	14			
Functional Morphology	10	8	3	7	5	-	7			
Genetics and Genomics	5	5	5	5	1	5	2			
Palaeobiology	3	6	2	1	5	5	3			
Phylogeny and Taxonomy	5	13	7	10	15	9	14			
Physiology	1	10	6	8	9	1	8			
Reproductive Biology	-	-	-	-	-	7	11			
Research Notes	5	6	5	4	2	2	9			
Techniques and Methods	-	-	-	-	-	15	9			
Obituaries/Biographies	-	-	-	3	3	4	1			
Evolution and Biogeography	/ 10	9	8	11	11	-	-			
Larvae and Development	7	6	4	7	2	5	-			
Special sections	5	4	3	2	11	15	-			
Book reviews	3	4	6	2	2	-	-			
Subject Reviews	-	-	1	2	2	-	-			
Total	84	<b>98</b>	88	80	96	99	89			

......Continued next page

## Relationship between The Crustacean Society and International Association of Astacology.

Report from Liaison Officer Tadashi Kawai

The summer meeting of The Crustacean Society (TCS) was held in June 2018 at CosmoCaxia Barcelona, Spain. The meeting had one oral and two poster presentations focusing on freshwater crayfish. As the liaison officer of TCS representing the International Association of Astacology (IAA), I believe that TCS and IAA have a good partnership and would benefit from becoming "Sister-Societies". Many memberships overlap between the two academic societies and our research interested complement one another. If you are interested in the phylogeny of crustaceans including freshwater crayfish, comparative biology between crayfish and freshwater crabs, shrimps, or prawns, an IAA membership provides an excellent opportunity for collaboration with TCS members, as specialist of freshwater crayfish.

Additionally, TCS holds annual meetings all over the world, whereas the IAA hold bi-annual meetings. Attending TCS meetings during the IAA gaps is a great opportunity for IAA members to catch up and communicate with each other, and with TCS members. IAA members in Spain enjoyed the TCS 2017 summer meeting (Fig. 1). Furthermore, attending these meetings allows the recruitment of new members for both societies. For example, I got an existing TCS member from Australia to join the IAA after seeing her poster on crayfish (Fig. 2).

The ICC-9 (http://crustaceansociety.org/upcoming-meetings), which is sponsored by TCS will be held in Washington D.C. from 22–25 May 2018 and in June 2018 the IAA meeting will be held at Carnegie Museum of Natural History, Pittsburgh, Pennsylvania, USA from 9–13 July 2018 (http:// freshwatercrayfish.org/Meetings.asp?uid=Guest&t=1). Hopefully, members of both TCS and IAA will attend 7

......Continued page 9



# *Journal of Crustacean Biology* Editorial Report for Volume 37 (2017)

The articles in Vol. 37 were authored by researchers from 33 nations and territories:

The articles 1				•			
	2011	2012	2013	2014	2015	2016	2017
USA	70	74	99	65	77	87	70
China	14	-	24	40	35	28	42
Japan	31	27	5	12	24	19	35
India	3	4	1	7	5	-	18
Brazil	13	28	32	39	36	22	15
Australia	6	13	2	5	5	16	14
Argentina	8	24	10	15	2	16	13
Canada	11	4	6	7	4	7	13
Taiwan	10	9	2	8	6	8	12
México	5	21	7	25	4	2	11
UK	8	11	4	11	17	9	11
Germany	10	17	14	14	12	4	6
Iran	-	-	-	-	-	-	6
Norway	1	-	1	-	2	6	5
Tunisia	-	-	-	-	-	-	5
Malaysia	-	-	-	-	-	1	4
Croatia	-	-	-	-	4	9	3
France	4	5	-	-	5	1	3
Thailand	3	4	2	-	2	5	3
Belgium	3	-	3	5	6	5	2
Denmark	1	2	1	1	5	3	2
New Caledonia	-	-	-	-	-	-	2
New Zealand	2	-	6	-	-	1	2
Singapore	4	3	-	-	7	3	2
Slovenia	1	-	-	-	-	-	2
South Korea	2	3	7	22	16	4	2
Spain	6	14	10	17	3	4	2
Egypt	-	-	-	-	-	2	1
Greece	-	-	-	-	3	-	1
Indonesia	1	-	-	4	-	-	1
Netherlands	-	1	1	1	3	1	1
South Africa	1	2	4	4	-	1	1
Sweden	-	3	-	-	-	-	1
Italy	-	-	12	11	17	4	-
Ireland	-	-	-	-	4	3	-
Chile	12	13	4	5	2	2	-
Costa Rica	2	2	5	1	-	2	-
Poland	-	-	-	-	2	2	-
Côte d'Ivoire	-	-	-	-	-	1	-
Cuba	-	-	-	-	-	1	-
Guatemala	_	-	-	1	_	1	-
Pakistan	1	-	-	-	-	1	-
Panamá	_	2	_	1	1	1	_
Russia	-	$\frac{2}{2}$	1	1	4	1	-
U.S. Virgin Islands	_	-	-	-	_	1	_
						-	



# Relationship between The Crustacean Society and International Association of Astacology.

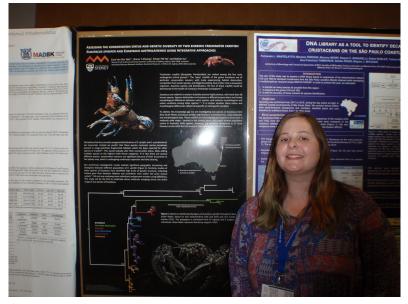
### .....Continued from page 7

the two meetings to create new friends, new ideas, and the chance of new collaboration. I believe that TCS and IAA should co-evolve in the future, helping to support and enhance all forms of crustacean research.

Figure 1. IAA members in Spain for TCS summer meeting in Barcelona, from right, Fran Oficialdegui, Miguel Ángel Bravo Utrera, Paloma Alcorlo Pagés, Torres, María Victoria.



Figure 2. New membership of IAA, Cara Van Der Wal, a PhD Candidate from the School of Life and Environmental Sciences, The University of Sydney.





## TCS Best Student Paper and Best Student Poster TCS Summer Meeting, Barcelona, 2017

The Crustacean Society (TCS) is pleased to announce the winners of the Best Student Paper and Poster Competition held during TCS Summer Meeting held between 19–22 June in Barcelona, Spain. The best student Oral Presentation Award was presented to Laura Timm (Florida International University) on her talk titled 'Population genomics of the mesopelagic shrimp *Sergia* robusta suggests resilience in the Gulf of Mexico following a major anthropogenic disturbance.' The best student Poster Presentation was presented to Rita Pires (Instituto Português Do Mar E Da Atmosfera (ipma)) for her poster titled 'Modelling Peneid shrimp dispersal: the case of *Parapenaeus longirostris*'.

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:

# Population genomics of the mesopelagic shrimp *Sergia robusta* suggests resilience in the Gulf of Mexico following a major anthropogenic disturbance

Laura Timm, Heather Bracken-Grissom

Florida International University, North Miami, USA

The purpose of this study was to diagnose changes in species health and resilience following the Deepwater Horizon Spill (DWHOS). While difficult to measure directly, population genomics can provide informative proxies: genetic diversity estimates population health and genetic connectivity describes population resilience. When focused on key species situated at the base of the trophic web, such metrics can be extrapolated to diagnose the health and residence of the species, community, and ecosystem.

With this in mind, our research focused on a midwater sergestid shrimp, *Sergia robusta* to 1) diagnose relative health by comparing genetic diversity between the Gulf of Mexico (GOM) and the adjacent Atlantic Ocean (ATL); 2) determine vulnerability to massive pollution events by analysing changes in genetic diversity; and 3) assess recovery potential from such events by measuring levels of genetic connectivity across major oceanic basins. Samples were collected from the GOM closely following the DWHOS spill in 2011, 2015–2016, and from the ATL in 2014. Our study utilized the next-generation sequencing method ddRADseq, which identified thousands of single nucleotide polymorphisms.

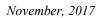
Analyses revealed higher genetic diversity in the GOM than the ATL and a significant increase in genetic diversity in the GOM between 2011 and 2016. Additionally, distinct populations were indicated, despite high gene flow between basins. Overall, we find a surprisingly reassuring story: while genetic diversity was low in 2011, it increased significantly over the course of the study, likely due to high connectivity between basins. These results provide unprecedented context for future oil spills.

### Modelling Peneaid shrimp dispersal: the case of Parapenaeus longirostris

<u>*Rita F. T. Pires*<sup>1</sup></u>, Álvaro Peliz<sup>2</sup>, Maria Pan<sup>1</sup>, Alessandro Marraccini<sup>1</sup>, Antonina dos Santos<sup>1</sup>

- 1. Instituto Português Do Mar Atmosfera (ipma), Lisbon, Portugal
- 2. Instituto Dom Luiz, Lisbon, Portugal

Penaeid shrimps are decapod crustaceans with high ecological value in ecosystems and commercial importance for worldwide fisheries. Although occurring frequently in zooplankton samples, the larval stages of these taxa are usually collected in low abundances. Moreover, few studies address both the Penaeid larvae distribution and the influence of dispersal mechanisms on their low occurrence.



# TCS Best Student Paper and Best Student Poster TCS Summer Meeting, Barcelona, 2017

As a mean to enhance survival, Penaeid larvae occupy shallower and more productive waters than the adults, where they complete their development, comprising an interesting species for dispersal studies. Zooplankton samples collected during summer surveys along the southern Portuguese coast provided important spatial distribution data on Penaeid species and their larvae were found distributed in the inner shelf, contrasting with the known offshore adult habitats.

A modelling approach was employed to explore the larval dispersal of the species and the control that different vertical migrations can introduce in it. Larval return to offshore, required for a successful recruitment and maintenance of adult populations, was simulated. Coastal larval retention in the main upwelling centres in the southern Portuguese basin was tested for the species. The small abundances registered were addressed and related with the local oceanography, resulting in a dispersal model applicable to similar offshore species.



## Report on the 18th International Symposium on Ostracoda (18th ISO), Santa Barbara, 2017

Report from Ilaria Mazzini, Rome.

The 18<sup>th</sup> International Symposium on Ostracoda was organized by Todd Oakley and his team at the University of California, Santa Barbara (USA) from the 27<sup>th</sup> to the 31<sup>st</sup> of August 2017. Before the symposium, the UCSB team set up an excellent website (https://iso18.eemb.ucsb.edu/) and organized a sophisticated t-shirt sale to provide funds in order to facilitate students' attendance of the symposium.

The symposium gathered together research scientists from all continents, from disciplines ranging from biology to geology, and with expertise on all geological periods from the Cambrian to the present (Fig. 1). The subtitle of the symposium synthetizes very well the multidisciplinary approach that characterizes the research about Ostracoda "Ostracoda - Evolving Witnesses of Changing Environments".

Following the tradition of the ISO symposiums, two field trips were organized. The pre-symposium field trip visited the site of the Miocene Barstow formation Konservat Lagerstatte in Southern California where freshwater ostracods and other arthropods can be found inside nodules. The post-symposium field trip was devoted to the sampling of living marine ostracods, Podocopoda and Myodocopida, and was based at the Wrigley Marine Lab in the Catalina Island.

The weekend before the symposium started, two workshops were organized. On Saturday, Finn Viehberg and Koen Martens led the "African Ostracod Taxonomic Harmonization Workshop". On Sunday, the NEOTOMA/DIVA-GIS Database and Software Workshop took place thanks to Alison Smith, David Horne and Brian Curry. Both hands-on workshops were welcomed by the community and they were an excellent opportunity to learn new methodologies and discuss future collaborative projects.

Sunday evening the ice breaker party gathered all the thirsty conveners in the De Anza Courtyard at the Manzanita Village, where most of the participants were lodged. The relaxed atmosphere and the pleasant weather made the party more similar to a reunion of good friends, full of expectations for the forthcoming event.

On Monday, the scientific sessions started at the Multicultural Center. Prof. Scott Hodges welcomed all of us as vice-chair of the Department of Ecology, Evolution, and Marine Biology (EEMB) at the University of California, followed by the president of IRGO, Finn Viehberg and the organizer of the conference, Todd Oakley. The keynote lecture "Flapper Valve and Hayfork: the gastric mill of Bairdioidea" was given by Renate Matzke Karasz on behalf of Rosalie Maddocks who was forced to stay in Houston by hurricane Harvey. On Monday, 18 of the 53 oral presentations were presented in three different sections: paleoecology and diversity, brackish Ostracoda, ecology and biodiversity.

Some ostracod workers take an important part in the life of the community, devoting much of their time to tasks that are not awarded by high impact publications or scientific evaluation. They put their skills to serve the community and their generosity has helped our community to grow and to bond strongly. For these reasons the IRGO committee decided to revive the "Order of the Amphidont Hinge" and to acknowledge Rosalie Maddocks, Elly Browsers, as well as late Eugen Kempf for their major and distinguished contributions to the science of Ostracodology (Fig. 2). Alan Lord instead was awarded a special prize for attending almost all the ISO meetings during the last 50 years. He has enjoyed a long and successful career, becoming a pillar of our community to whom the others have all come to rely on (Fig. 3).

Tuesday started with the keynote address by Jim Morin on "Luminaries of the reef: courtship displays by luminescent Ostracods in the Caribbean" and continued with the three sessions, i.e. Paleontology, evolution and development; Courtship, reproduction and sexual selection; Paleoenvironment. A great way to end the second day of the symposium was to attend the public screening of the award-winning David Attenborough's film "Life that glows" at the Hatlen Theatre. We were all bewitched by these tiny bioluminescent creatures, including ostracods, and delighted by the art of inspired scientific storytelling and advanced filming technology. We also had the opportunity to ask questions to a panel of researchers and photographers involved in the making of the movie, including our colleagues Jim Morin and Gretchen Gerrish, discovering all the technical difficulties that made bioluminescence filming impossible only few years ago. Each ISO meeting has been characterized by a mid-symposium excursion that represents the opportunity for the organizers to show off the best features their region has to offer and for the participants to gather in a less formal way. The participants could choose between wine tasting and whale watching. Both groups had a wonderful time, sipping a range of the best wines produced in the Santa Barbara area or watching a thousand common dolphins playing around before observing the magnificence of the blue whales. In the afternoon, the poster session with 57 poster presentations was organized in the Manzanita Village around the Las Encinas Quad Lawn where the social dinner took place. There was enough time to discuss the posters while drinking local beers (we were surprised to find also Icelandic beers at the bar) and noshing on appetizers.

The Sylvester-Bradley award for best poster of a young researcher (sponsored by IRGO) was given to Yuki Fujihara et al. for their poster on "Palaeoenvironmental changes in Suwa Bay, Oki Islands, Japan, during the Holocene recorded by ostracode assemblages"; the award for the best poster of all contributors (sponsored by the Society of Friends of IRGO) was granted to Toshiaki Irizuki et al. for their poster on "Temporal changes of the southwestern Japanese ostracode faunas with relation to the Miocene formation and development of the Sea of Japan". The social dinner ended a perfect day, and the ostracod community enjoyed the food, the drinks and the beautiful setting, beside each other company.

The last day of the symposium was organized in the three sessions: paleoenvironment, neotropical Ostracoda, and biostratigraphy. Before closing the symposium, the IRGO business meeting took place. The Sylvester-Bradley award for best oral presentation of a young researcher (sponsored by The Micropalaeontological Society) was given to Anna B. Jöst for her excellent presentation "Deep-sea ostracod diversity and faunal distribution in the sub-polar North Atlantic". The new IRGO officers were nominated (Chair Moriaki Yasuhara; vice-Chair Vincent Perrier; Secretary Ilaria Mazzini, treasurer Renate Matzke-Karasz, past chair Finn Viehberg) and the location of the next ISO19 has been voted. In four years time we will meet in Lyon (France), invited by our colleagues Vincent Perrier, Marie-Beatrice Forel and Sylvie Crasquin.

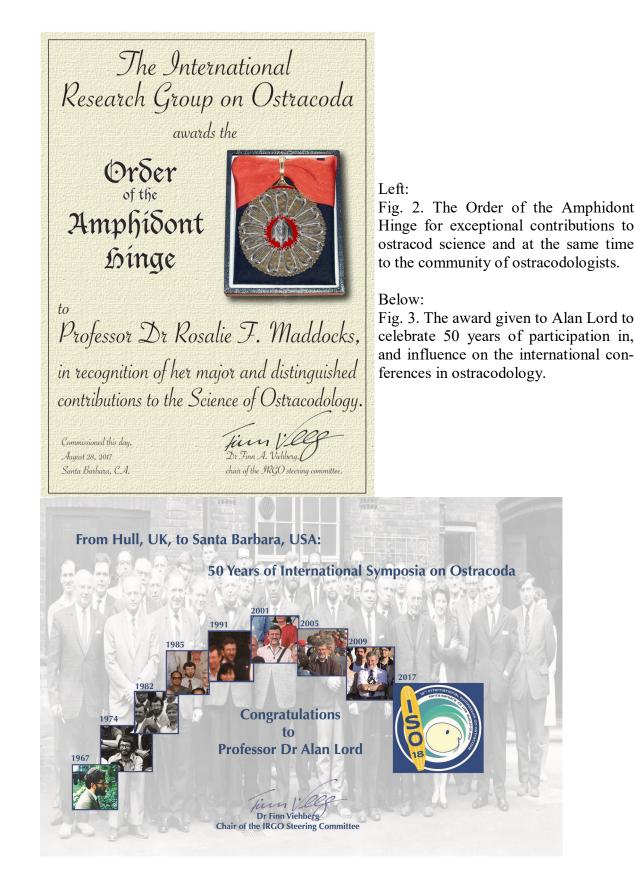


Fig. 1. Group photo of the ISO18 participants (photo by Claude Meisch).

.....More photos continued next page

# Report on the 18th International Symposium on Ostracoda (18th ISO), Santa Barbara, 2017

......Continued from previous page





# TCS Elections, 2017 Candidates

### **President-Elect:**



Full Professor at University of Alaska Southeast, Juneau, USA.

Dr. Sherry Tamone received her BS in Biochemistry at San Francisco State University where she also was a SCUBA diver enamored by invertebrates. She then went on to pursue her PhD in Endocrinology at the University of California (Davis) under the mentorship of Dr. Ernest S. Chang at the Bodega Marine Laboratory, studying the regulation of ecdysteroids from y-organs of the Dungeness crab. She has been a faculty member at the University of Alaska Southeast (UAS), in Juneau, Alaska UAS since 1999. A Fulbright Research Scholar recipient, Dr. Tamone spent five months at the Ben Gurion University in the Negev in 2014–2015, working with Dr. Amir Sagi on the characterization of an insulin-like peptide from the androgenic gland of the Northern spot shrimp, Pandalus platyceros. Currently a Professor of Biology, and Chair of Natural Sciences Department, she is actively involved in teaching many courses such as invertebrate zoology, physiology of marine animals, independent research on crustacean biology, etc. Her research focuses on crustacean endocrinology, physiology, and sexual differentiation with an emphasis on commercially important crabs of Alaska (snow, Tanner, and red king crab). Dr. Tamone has been a member of TCS since 1995. She has served as the Liaison between TCS and the Society for Integrative and Comparative Biology (SICB) from 2009-2015 and has been an active member of both societies. Dr. Tamone hosted a summer meeting for TCS in Juneau, Alaska, in 2006 and attends each winter TCS meeting in association with SICB. She still is an avid SCUBA diver and looks for crustaceans whenever she has the opportunity. Dr. Tamone is currently the Past Program Officer, SICB (Executive Officer) after serving her term as Program Officer (2014-2016) and Program Officer -Elect (2012–2013). She is running for the TCS President-Elect position with goals of increasing collaborations and membership in TCS and to reach out to crustacean biologists all around the world.

### **President-Elect:**



#### **Ingo S. WEHRTMANN** Full Professor at Universidad de Costa Rica, San José, Costa Rica.

Before studying Biology in Frankfurt a.M. and later in Hamburg, Ingo underwent a two-year training as a *Bio*logical-Technical Assistant for Natural History Museums at the Research Institute and Museum Senckenberg in Frankfurt a.M., where he worked in the Crustacean Section under Dr. Michael Türkay. For his Diploma degree he studied caridean shrimp larvae in the North Sea and continued doing his Ph.D. comparing ecological features of crangonid larvae in the German Bight and Chesapeake Bay. Directly after receiving his Ph.D. degree from the University of Hamburg (1991), Ingo worked for six years as Visiting Professor at the Universidad Austral de Chile, Valdivia. After a three-year stay in Germany (Alfred-Wegener-Institute for Polar and Marine Research, Bremerhaven), he went to the Philippines (Mindanao), where he worked for the German Development Service (DED) in the area of marine coastal resource management in Mindanao. Since 2001, he is professor at the School of Biology of the Universidad de Costa Rica (UCR) and is the current director of the Center for Research in Marine Sciences and Limnology (CIMAR) of the UCR. He is founder and coordinator of the Research Unit for Fishery and Aquaculture (UNIP) of the CIMAR, curator of the Zoological Museum of the UCR, as well as co-founder and treasurer of the Latin American Association of Carcinologists (ALCARCINUS). He is or has served as associated / subject editor for Latin American Journal of Aquatic Research, Marine Biology Research, ZooKeys, Nauplius and Sexuality and Early Development in Aquatic Organisms. Furthermore, he forms part of the editorial board of Latin American Journal of Aquatic Research (Chile), Nauplius (Brazil) and Crustacean Research (Japan). His principal research areas are decapod diversity in aquatic habitats, reproduction of marine and freshwater decapods, and fishery-biology of deepwater shrimps. Ingo has published roughly 100 scientific papers, one book about the marine biodiversity of Costa Rica, and is referee of numerous journals. Recently, he was appointed as series editor for the book series Crustacean Issues (Taylor & Francis, USA). He has been thesis advisor of more than 30 students and published extensively together with them. He organized numerous scientific events, including the "The Crustacean Society and Latin American Association of Carcinology Summer Meeting in San José, Costa Rica (2013). Moreover, Ingo is a long-standing member of The Crustacean Society (TCS) and had the privilege to serve for two terms as the Latin American Governor for the TCS-Board, which allowed him to get closer insights in the functioning of the Society.

#### **Program Officer:**



Benny K.K. CHAN

Full Professor at Academia Sinica, Taiwan.

I am Benny K.K. Chan, professor in Academia Sinica, Taiwan. I am a barnacle biologist and taxonomist. During the last five years, I have published 57 SCI publications in the field of barnacle ecology and taxonomy. I am a frequent participant at the TCS summer meetings since 2003 to present. In 2016 and 2017, I was involved in the TCS Board as the Asian Governor. In the new round of elections, I am very interested to be involved as a program office in the TCS committee, as I would like to organize the awards for the TCS members, student members and also develop additional training workshops, either in taxonomy of a crustacean group or paper/proposal writing workshops for our TCS student members. I hope with the increased variety of programs and awards for our TCS members, TCS can get even more popular with the carcinologists in the world and continue to attract more new members to join the society.

#### **Asian Governor:**



**Tohru NARUSE** Associate Professor at University of the Ryukyus, Tropical Biosphere Research Center, Japan.

Tohru Naruse is an Associate Professor at the University of the Ryukyus, Japan. His passion with decapod crustaceans began during his undergraduate degree studies at the University of the Ryukyus (Nishihara, Okinawa) when he waded through the islands collecting specimens. He continued with his MS studies after his BS program, and eventually received his PhD degree at the same university. After a brief stint of post-doctoral

work in Japan, he packed his bags and headed to Singapore whereby he took up a Research Fellowship at the National University of Singapore, working on biodiversity research, including systematics of Asian freshwater crabs and Indo-West Pacific marine crabs. Since moving back to the Ryukyus in 2009, Dr Naruse has authored or co-authored over 100 peer-reviewed papers. Research in brachyurans has taken him to many 'exotic' places, e.g., the infamous Christmas Island, Australia, whereby the research team found a new species of cavedwelling crab. His laboratory, located at the Iriomote Station, Tropical Biodiversity Research Center, has worked in the systematics of various marine and freshwater invertebrates, such as decapod crustaceans and scleractinian corals. Dr Naruse is an active member of many professional societies in Japan, namely, the Carcinological Society of Japan (where he will be a member of the Council from 2018 to 2019), The Biological Society of Okinawa and the Japanese Society of Systematic Zoology. On the international scene, he is a long-time member of The Crustacean Society and he looks forward to represent the Asian region (if elected) by promoting and fostering stronger ties among TCS members from various Asian countries.



Full Professor at Silla University, Republic of Korea

Professor Ko received her doctoral degree from Busan National University of Korea. She is currently a professor in the Department of Life Science, Silla University (= the Department of Biology, Pusan Womens University from 1990 to 1997), where she teaches zoology, developmental biology, marine biology, and evolution. Her main research is the larval development of Decapods. She studied at The Natural History Museum of London, England and the Shannon Point Marine Center, Anacortes, WA, USA. She has published over 100 publications (books, chapters, peer-reviewed papers). She is a member of The Korean Society for Integrative Biology and an editorial board of the Korean Society of Systematic Zoology. Also, she is a member of The Crustacean Society of America and an international advisory board of Carcinological Society of Japan.

### Latin American Governor:



### Alexandre Oliveira de ALMEIDA

Adjunct Professor at Federal University of Pernambuco, Recife, Pernambuco, Brazil.

I received my Bachelor's degree in Biological Sciences and my Master's in Animal Biology from the Federal University of Rio Grande do Sul (Porto Alegre, Rio Grande do Sul, Brazil), in 1996 and 1999, respectively. My PhD in Oceanography was received from the Federal University of Pernambuco (2009, Recife, Brazil). I was Assistant and Adjunct Professor at the Department of Biological Sciences of the State University of Santa Cruz (Ilhéus, Bahia, Brazil), from 1999 to 2014. I am currently Adjunct Professor at the Department of Zoology and Professor of the Graduate Program in Animal Biology of the Federal University of Pernambuco (Recife, Pernambuco, Brazil). My research focuses on systematics and ecology of shrimps of the family Alpheidae. I am also interested in systematics of other caridean groups and studies of symbiotic associations between decapod crustaceans and other marine animals. I have been a board member of the Brazilian Crustacean Society (2011–2014) and Assistant Editor of the Nauplius Journal (January 2015–December 2018).



### **Gustavo A. LOVRICH**

Scientific researcher at the Centro Austral de Investigaciones Científicas, Ushuaia, Argentina.

Gustavo A. Lovrich works on biology of decapods with commercial interest from high latitudes, specially king crabs and squat lobsters. Gustavo got his License and Doctoral degree in Biology at the University of Buenos Aires and he did postdoctoral stages at the Maurice Lamontagne Institute of Mont-Joli and at the Hel-goland Marine Station in Germany. Currently, he is a scientific researcher with the National Research Council of Argentina (CONICET) and works at Ushuaia, in the Centro Austral de Investigaciones Científicas. His research interest is currently focused in the population restoration and conservation of the Southern King Crab.



The organizing committee invites you to join us at the Ninth International Crustacean Congress (ICC 9) and looks forward to welcoming you to Washington, D.C., May 22–25, 2018, hosted by the Smithsonian Institution and the Renaissance Hotel. This will be the first time that an ICC has been held within the United States and the first time to be hosted by the Smithsonian Institution. The ICC 9 meeting is also co-hosted by The Crustacean Society and is dedicated to dissemination of all aspects of crustacean biology to local and international audiences.

### Symposia Titles include:

- · Adaptations to Life in the Deep Sea and Caves
- Close encounters of the Crustacean Kind: Interactions with other Animals
- · Crustacean Biodiversity in the Neotropics
- · Crustacean Feeding and Nutrition
- · Crustacean Paleobiology
- Molecular Insights: The Genomic Revolution in Crustacean Biology
- Too few, too many, or just right: Causes and Consequences of Sex Ratio Variation
- · Marine Chelicerate Biology
- · The Adaptable Blue Crab, Callinectes sapidus
- · Interactions in Crustacean Mesoherbivore Communities
- · Crustaceans and Climate Change
- · Conservation Biology of Freshwater Crustaceans
- · In honor of Horton H. Hobbs III: Contributions and legacy in crustacean biology
- · Form and Function in Crustacean Morphology

### The deadline for submitting abstracts is March 1, 2018 For more information see http://www.birenheide.com/ICC2018/index.php



Dear researchers, undergraduate and graduate students or other ones interested in the study of crustaceans, we are pleased to announce the X Brazilian Crustaceans Congress (X CBC). This edition will be organized by the Federal University of Pernambuco (UFPE), Federal Rural University of Pernambuco (UFRPE) and University of Pernambuco (UPE), and it will take place from November 11 to 14, 2018, at the Mar Hotel Conventions, in the city of Recife, State of Pernambuco. The organizing committee is strongly engaged with the preparation of a high-level programming, with the participation of Brazilian and foreign speakers, in order to provide important and deepened discussions on the most diverse aspects related to the crustaceans.

Looking for a visual identity for the X Brazilian Crustacean Congress (X CBC), a contest was launched in this edition to find a logo for the event. The following logo developed by undergraduate student Camilla Bartholomei Santos, from the Federal University of Santa Maria - RS was chosen by the members of the committee and will brighten the event.

Besides, the X Brazilian Crustacean Congress will present the first edition of the project "Crustaceans in the Square" - whose main objective is to popularize some knowledge about crustaceans for society. In this edition, the target community will be the neighbourhood of Várzea, located in the city of Recife (PE), very close to the campus of the Federal University of Pernambuco. During the activities, hundreds of people can visit the Várzea square and explore the crustacean world. The importance of these animals in the diverse ecosystems of the planet and their great diversity of forms, colors and sizes will be exposed in thematic stands, in a didactic form and of simple understanding to the community.

Please, visit our page periodically (https://xcbcrecife2018.wixsite.com/xcbc2018/copia-inicio) and follow us on Facebook (https://www.facebook.com/XCBC2018/) to check for the news of the event. We count on the presence of all!

Best regards, The organizing committee of X CBC.

#### **Head Committee**

Dr. Alexandre Oliveira Almeida (UFPE) Dr. Jesser Fidelis de Souza Filho (UFPE) Dra. Marina de Sá Leitão Câmara de Araújo (UPE)

#### **Scientific Committee**

Dr. Luis Ernesto Arruda Bezerra (UFC) Dr. Mauro de Melo Junior (UFRPE)



#### Organizing Committee of Crustaceans in the Square

Dr. Mauro de Melo Júnior M.Sc. Andressa Cunha M.Sc. Elkênita Guedes-Silva B.Sc. Julianna de Lemos Santana

#### Secretary

Dra. Catarina de L. Araújo Silva (UFPE) Dra. Débora Lucatelli (UFPE) Dra. Fabíola Maria Marques do Couto Cahú (UFPE)

#### **Organizing Committee**

M.Sc. Ana Carla Costa de Souza (UFPE)
M.Sc. Andressa Maria Cunha (UFPE)
M.Sc. Aurinete Negromonte (UFPE)
M.Sc. Elinai Santos Silva (UFPE)
M.Sc. Elkênita Guedes-Silva (UFPE)
M.Sc. Flávio Almeida Alves Júnior (UFPE)
Dr. Gabriel Lucas Bochini (UFPE)
M.Sc. Guidomar Oliveira Soledade (UFPE)
B.Sc. Julianna de Lemos Santana (UFPE)
B.Sc. Mario Vitor Oliveira (UFPE)
M.Sc. Patricia Souza Santos (UFPE)
Dr. Ricardo José de Carvalho Paiva (UFPE)