



The Ecdysiast

Newsletter of The Crustacean Society

Message from the President...

Welcome TCS colleagues,

The northern hemisphere summer is over, the leaves are falling, and it is back to the academic grind for many of us. But, we take with us some very fond memories of the summer meeting in Athens, Greece. In early June (3-7th), the TCS summer meeting was held in conjunction with the 10th Colloquium Crustacea Decapoda Mediterranea (CCDM) in beautiful Athens. The weather, company, food and conference program were all exquisite. Elena Mente and her Greek colleagues put on a fabulous meeting in the Royal Olympic Hotel. The social events were fun and well attended and it allowed us all to meet and greet our colleagues in carcinology from Europe and all over the world. The several days of symposia, talks and poster events were equally impressive and I personally saw and heard some fascinating science. I would like to extend the thanks of TCS to Elena and her conference helpers for making us all welcome and holding such a successful meeting. I also want to thank all of you who attended and participated so enthusiastically.

While on the subject of meetings, let's not forget what we have coming up in the next 3 years:

January (3-7), 2013 – Winter meeting with SICB, San Francisco, USA (with a TCS sponsored special symposium on crayfish)

July (8-12), 2013 – Mid-year meeting with ALCARCINUS, San Jose, Costa Rica

July (14-19), 2013 – TCS sponsored symposium on crustacean regeneration, development & reproduction at the International Congress on Invertebrate Reproduction and Development (ICIRD), Detroit, USA

January 2014 – Winter meeting with SICB, Austin, USA

2014 – 8th International Crustacean Congress (ICC), Frankfurt, Germany

January 2015 – Winter meeting with SICB, West Palm Beach, USA

2015 – Mid-year meeting, Sydney, Australia

So, while we are all now thinking about future TCS meetings, let me put in a big plug for the Costa Rica meeting. Not only is it a great summer meeting location (think about a family vacation too!) but it is a fabulous opportunity for TCS to meet with the large Latin/South American carcinological community. The meeting in San Jose will be in conjunction with the crustacean group from this region of the world, ALCARCINUS, and will involve some special symposia for Spanish speakers, but with English powerpoints. This is a perfect opportunity for TCS and ALCARCINUS to promote and complement each other and for these two large communities to mix. Look for future announcements about the San Jose meeting on the TCS website and Crust-L.

Please continue to support your society through attendance at our meetings (both winter and summer), your continued membership (2013 renewals are currently being sent out), encouraging new membership (especially amongst your students), publication in our flagship journal - JCB, and general promotion of TCS and its goals. See you in San Francisco and San Jose!

Sincerely, your President (2012 -2013),

Chris Tudge

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For all members attending the SICB meeting in San Francisco in January!

TCS will be running another silent auction of crustacean and invertebrate zoology curiosities, bric-a-brac and trash at the SICB meeting.

Please scour your cupboards and tabletops for those crustacean/IZ items that you no longer need that others will cherish.

Bring them to the TCS booth at SICB or mail them ahead of time to Brian Tsukimura (briant@csufresno.edu).

The actual date and time for the auction will be determined later, most likely in conjunction with the TCS social.

All proceeds will go towards TCS student scholarships.

Thanks!

Chris Tudge
(TCS President)



The Crustacean Society Graduate Student Fellowships and Scholarships

The Crustacean Society Board is pleased to solicit applications from graduate students for the following monetary fellowships:

The Denton Belk Memorial Scholarship in Graduate Studies (\$1500);

The Crustacean Society Fellowship in Graduate Studies (6 awards of \$1500 each in the areas of (1) crustacean ecology and/or behavior; (2) crustacean population genetics and/or physiology; and (3) crustacean systematics, biogeography, and/or evolution).

All fellowships/scholarships will support the awardee's research program, including, but not limited to: supplies, travel for research, participation in off-campus research experience or training, or a specialized course of study to advance the awardee's knowledge and skills. Selection of the awardee is based on the relevance of the request ("candidate's statement") to the applicant's educational and research goals and a letter of support/recommendation from the applicant's major professor or mentor. Scholarships are awarded annually and may be received only once per awardee. Unsuccessful applicants may re-apply in subsequent years.

Please note: applicants for The Denton Belk Memorial Scholarship in Graduate Studies must be conducting or proposing research that specifically targets large branchiopod crustaceans (e.g., Anostraca, Notostraca, Laevicaudata and Spinicaudata).

Currently enrolled graduate students working on either a MS or PhD degree may apply by completing and sending the appropriate application form (available at <http://www.thecrustaceansociety.org> under "student information") and required documentation (CV, letter of support, and candidate's statement) to:

Dr. Jeff Shields
The Crustacean Society Awards Committee
Virginia Institute of Marine Science
POB 1346, Gloucester Point, VA 23062

For questions: jeff@vims.edu

DEADLINE FOR SUBMISSION: February 15th, 2013

Please note: The applicant and his/her major professor or mentor must both be current members of The Crustacean Society at the time of application.



The Crustacean Society Board Members, 2012

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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 publications and any other crustacean news.

Send all material directly to the editor:

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Keith A. Crandall
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Isabelle P. Williams
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The Crustacean Society



Executive Director/Treasurer

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November 3, 2012

2013 Renewal Notice

Dear Members,

The Crustacean Society has successfully moved our printing operations from Allen Press to Brill. Brill offered us an option that looks good for the long-term growth of TCS and stability of JCB. This option included an \$8000 bonus for signing a letter of intent before July 4, 2012 and we have collected that bonus. We are going to keep moving JCB into the modern publishing world. Mary Belk is now operating the business office including the membership renewal functions for TCS. You will be able to send your money by check to The Crustacean Society at the above address in US dollars. There is a new email account for TCS at tcs1921@hotmail.com. If you send money to TCS by way of PayPal directly use tcsmoney@hotmail.com as the email address. You may go online at thecrustaceansociety.com and use a credit card to pay your 2013 dues. The web payment site takes money for memberships, donations, page charges, and shirts at the moment when available.

2013 Membership Categories:

Student online only member	\$35
Regular member online only	\$95
Regular member print and online	\$145
Patron member print and online	\$165

These fee changes are covering the \$50 print edition charge for distribution.

Sincerely,

Mary Schug Belk

Mary Schug Belk
Executive Director/ Treasurer
The Crustacean Society



Mid-year Editorial Report *JCB* – June 2012

Since we shifted to Brill last Fall, we have had as of 25 May 2012 some 128 submissions, 58 of them since 1 January. My impression is that this is running slightly ahead of the rate of submission of what we had under Allen Press. We definitely seem to be attracting a wider geographic sample of authors, and continue to have a significant number of non-members submitting manuscripts. I can tell because if they are new to the system when they submit, the authors have to register; I get a notification of this and immediately pass this on the Mary Belk, who then solicits them to join.

Brill finally freed-up the flow of issues for volume 32; issue # 1 appeared in February, # 2 in April, # 3 in May, and #4 in July, # 5 later in the summer. Issue 6 is closed, and Vol. 33(1) is now being filled. Plenty of things are in the pipeline to carry us through into 2013. Our main concern now is to watch the total pages in the volume; if we exceed 1,000, TCS will have to pay extra. The desk editor and I will keep an eye on things as we fill issue 6. [The Brill format starts all papers on an odd-numbered page. Thus, if the end of a paper also occurs on an odd-numbered page, we then have a blank page on the succeeding even-numbered page. These blank pages count towards the 1,000.]

With the move to Brill, page proof processing has gone electronic. The perceived problems on the part of the editor of reading and marking PDFs has proven to be less stressful than anticipated. In only one instance has a blooper gotten through – a typo in the spelling of a genus in a paper's title. *Mea maxima culpa*.

We have had some problems with the on-line platform Brill erected. One of the issues, 31(4), that they uploaded in Leiden refused to allow itself to be seen. This was exasperating, and it appears to have been finally solved. All the back issues of *JCB* are now being scanned and uploaded onto the Brill platform.

The Finance Committee has discussed broadening the appeal of *JCB* so as to broaden the appeal of TCS membership. We have for some years been open to considering papers in pycnogonids and merostomes. It's been suggested that with the concept of 'pan-crustacean' gaining ground, that we could contemplate accepting papers in insects. Papers in fisheries and aquaculture have generally been turned back when submitted. All these could be considered for *JCB*. However, there are myriads of entomological, fishery, and aquaculture journals. The General Editor will move carefully on this front, although as a result of the meeting in Athens and the plenary lecture of Prof. Patrick Sorgeloos, the editor perceives a niche for *JCB* in entertaining submissions in Aquaculture that focus on matters of basic biology.

Respectfully submitted,

Frederick R. Schram
General Editor, *JCB*

CRUST-SOC@VIMS.EDU, the Crustacean Society's Listserver

The Crustacean Society has an email list server that is only open to members of the society. This list server is designed to provide you with timely official society business and important society announcements. CRUST-SOC is moderated and closed and is not a forum for discussion. It is not meant to replace CRUST-L because the latter is open to nonmembers and is for broader discussion on Crustacea. For suggestions, contact jeff@vims.edu, your TCS Secretary, or any member of the board (listed at our website <http://www.thecrustaceansociety.org>).

You can subscribe to CRUST-SOC by becoming a member of the society. Members who aren't subscribed can send SUBSCRIBE CRUST-SOC YOUR NAME (not your email address) as the message body to LISTPROC@VIMS.EDU. You can unsubscribe by sending UNSUBSCRIBE CRUST-SOC to LISTPROC@VIMS.EDU.

We have taken every effort to ensure that your email address has been correctly entered into CRUST-SOC. However, several members have changed email addresses or have made mistakes in entering email addresses. Thus, if you are a member and are not on the list, please enter your correct email address on the annual subscription form, and please subscribe as detailed above. Remember, CRUST-SOC is the official email list server for society information and not a forum for discussion.

CRUST-L@VIMS.EDU, the Discussion List for Crustacea

CRUST-L@VIMS.EDU is the email list server for those interested in Crustacea. It is an informal scientific forum for discussion on all aspect of the Crustacea. CRUST-L is a moderated, open list, but you have to be a member to post messages to it. You can subscribe to the list by sending SUBSCRIBE CRUST-L YOUR NAME (not your email address) as the message body to LISTPROC@VIMS.EDU. You can unsubscribe by sending UNSUBSCRIBE CRUST-L to LISTPROC@VIMS.EDU. Use LISTPROC@VIMS.EDU to post administrative commands such as SUBSCRIBE, INFO, HELP. Use CRUST-L@VIMS.EDU to post messages to CRUST-L. The listproc software includes several features such as searchable archives, and a digest mode for intermittent mailings.



Notes from the Executive Director

TCS has 539 members as of August 28, 2012. This is not as many as I would like to have seen by now. I have been sending out invitations to all the people who have gone to the Editorial Manager website to view the information about submitting papers to JCB. That has brought in a few. We have also had a few new student members sign up and hopefully they are going to submit applications for the Scholarships. I have emailed each new member to give them their member number and prepare them to set up their ID and Passwords with Brill, JSTOR, and BioOne. If anyone does not have access to these three companies please let me know.

Brill had a slight glitch in their distribution operation when we learned one group of 32 people had not been processed as print edition members. This has been corrected and the issues are being sent out. Some issues were in stock and others had to be reprinted and will be sent as soon as possible. Hopefully by the time you read this the process will be complete.

JCB is moving along nicely. Our editor has completed volume 32 and is starting on volume 33. This makes our delivery schedule work out so as to have 33(1) ready for January distribution which is what we expect. The transition to Brill has had a few bumps but none have been a major problem. Our production

schedule is on time and we are moving right ahead with the new six issues per year.

We are now in the membership renewal period. TCS's first call for membership renewals went out Oct. 1, 2012 for membership in 2013. Just a reminder, our memberships are the same as the calendar year, January 1, 2013 – December 31, 2013. It is best to send in your membership before January because on December 31, 2012, the membership list will be sent to Brill for mailing of the first print issues of 2013. You may miss your first issue if your membership is not paid on time. Brill will send out all issues to print issue members but they may be delayed if your membership is not paid by December 31. The membership categories are the same but two of them have new charges. The new membership fees are due to cost we must pass along. Go to www.thecrustacean-society.com and take a look the categories and costs. This is the simplest way to pay your membership using a credit card. You may also send PayPal.com the payment and send it to tcsmoney@hotmail.com. Checks in US Dollars can be sent to Mary Belk, 1320 Winding Way, New Braunfels, TX. 78132, USA. If you need other information or help, email Mary at tcs1921@hotmail.com. Mary Belk is now operating the business office and we have no continuing ties with Allen Press for printing or business operations.

All members are asked to go to www.thecrustaceansociety.org and scroll to the bottom of the page. There punch the blue button and fill in the form to opt-in to the emails that will be sent out to members. If you have been unsubscribed the system will not accept the unsubscribed email again. You may put in a different email and you will be back on the list. A confirmation email will be sent by the system. You need to open that email and activate your membership. If you get a response that you are already in the system then you have activated your membership. These are restrictions put on by any marketing email system to meet federal laws.

The main website for The Crustacean Society www.thecrustaceansociety.org has a new look. The Board decided that the temporary look that was on the site should be more professional. The change to a more professional look started in August and should now be complete. Please go look at the site if you have not visited it lately. The content is the same but the navigation is a bit different and the general look is new.

Respectfully Submitted
Mary Schug Belk, Executive Director, TCS

JCB language service

Before you submit a manuscript to JCB, and if you are not fully fluent or a native speaker of English, we recommend the following. American Journal Experts (AJE) provides professional language editing services to authors around the globe who wish to publish in scientific, technical, medical, and humanities journals. We urge authors who are not well versed in the English language to use this service to improve a paper's English and, therefore, its overall quality. Seeking this assistance is suggested before an article is submitted to JCB for peer review and certainly before it is finally accepted for publication.

AJE has over 500 editors from Harvard, Stanford, MIT, Berkeley, and Duke; these editors are native English speakers and subject-matter experts in a wide variety of fields. They will check your manuscripts not only for terminology and language specific to your field but also for proper English usage, grammar, punctuation, spelling, verb tense, and phrasing. In addition, AJE's professional editors will make sure the text reads naturally and the sentences are well constructed. The cost for this service is very reasonable. Visit AJE's website for more information, or to submit a document for their scientific proofreading service use this link: www.JournalExperts.com?rcode=JCB1.

When you are secure about your text, manuscripts then can be submitted on line through the new link: www.editorialmanager.com/jcb.

If you are not accessing JCB online because you do not have ID and Passwords you may contact Mary Belk at tcs1921@hotmail.com and she will have Brill send you a newcontact email. You must have your membership up to date. ID and Passwords will not be sent without current membership.

Recent Meetings...



**3-7th June 2012
Athens, Greece**



The Crustacean Society Summer Meeting (TCSSM) was held in Athens, 3-7th June 2012 and was jointly organised by the 10th Colloquium Crustacea Decapoda Mediterranea (CCDM). Our eminent speakers and delegates came from all over the world; we were indeed honoured to have them with us in Athens; the birthplace of democracy. We had about 235 presentations from 25 countries gathered here, making the conference a truly international one. The conference sessions were as follows:

Session A: Crustacean Biodiversity

- Integrating fossil crustaceans into the classification system, Threats (environmental climate change, pollution effects, over-exploited fisheries and threatened crustaceans, invasive species) and Taxonomy, Phylogeny and Biogeography

Session B: Larval Biology and Morphology

- Larval Morphology and Culturing decapod larvae-status and challenges

Session C: Behaviour and Ecology

- Crustaceans as ecosystem engineers

Session D: Physiology and Endocrinology

Session E: Exotic crustaceans

- Assessing establishment and impact in new environments and Life cycles

Session F: Advances in crustacean aquaculture research

- Nutrition, Reproduction and breeding and Novel technologies

Session G: Crustaceans diseases

- The biology of parasitic crustaceans and diseases of crustaceans and caused by crustaceans

Session H: Genetics, Genomics and Proteomics

- Crustacean sexual differentiation under changing environment and biotechnological applications

Session J: Fisheries

- Over-exploited species and Social impacts

COLLOQUIUM SESSION A: Mediterranean decapod biodiversity

- Marine and Freshwater

COLLOQUIUM SESSION B: Exotic decapods in the Mediterranean

Our keynote speakers were Professor Ehud Spanier, Professor Patrick Sorgeloos and Dr. Klaus Anger. Ehud Spanier is a full professor at The Leon Recanati Institute for Maritime Studies & Department of Maritime Civilizations, The Leon H. Charney School for Marine Sciences, Faculty of Natural Science, University of Haifa, Israel. For many years he was the head of the institute and the department. He obtained his B.Sc. in Biology and M.Sc. in Zoology from Tel-Aviv University and his Ph.D. in Oceanography and Marine Biology from the Rosenstiel School of Marine & Atmospheric Science, University of Miami, USA. He is a member of many international and national scientific societies, including the Zoological Society of Israel, the Israeli Society for the Study of the Sea and the Israel Society for Ecology and Environmental Quality Sciences, where he served as president for several years. He is currently serving on several national and international scientific and academic committees. Prof. Spanier, together with his many graduate students and scientific colleagues, has been studying ecology, behavior and behavioral ecology of marine fish and invertebrates, especially lobsters, with emphasis on slipper lobsters (but also spiny and clawed lobsters), ecology of artificial reefs, biogeography of marine organisms and biology of marine mammals. He is also the Israeli expert on dangerous marine animals. He has published over 100 scientific publications and 4 books.

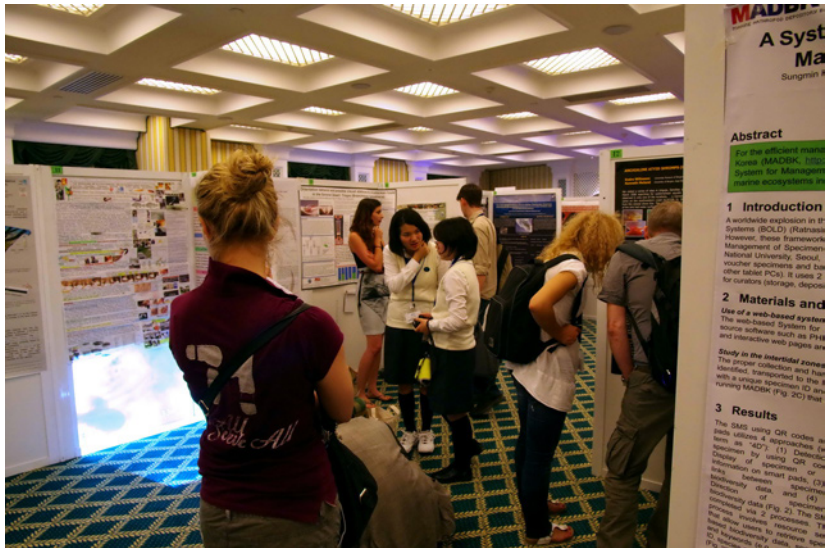
Patrick Sorgeloos (1975 PhD in marine biology) is professor of aquaculture and founding director of the Laboratory of Aquaculture & Artemia Reference Center (ARC) at Ghent University in Belgium. The ARC is active in aquaculture education at the Master and PhD level with more than 200 Master and 60 PhD alumni from all over the world. ARC's research focus is on fish and shellfish larviculture nutrition and microbial management through the interdisciplinary UGent Aquaculture Research Consortium. Patrick Sorgeloos is co-founder and board member of the European Aquaculture Technology & Innovation Platform, chairman of the ASEM Aquaculture Platform and past-president of the World Aquaculture Society. He received awards from universities and national/international aquaculture organisations in Europe, Africa, America and Asia.

Dr. Klaus Anger (1975 PhD in biology) holds a permanent researcher position at the Marine Biological Institute (BAH/



Recent Meetings...

AWI) on Helgoland Island. Cooperating with German and foreign universities, he has engaged in numerous teaching activities including the supervision of about 50 Master and 20 PhD projects. His investigations, carried out together with graduate students and scientific colleagues from various countries, comprise experimental studies of complex life cycles in decapod crustaceans and other benthic aquatic invertebrates, concentrating on aspects of larval morphology, growth, ecophysiology and “carry-over effects” persisting from the embryonic or larval phase through later life-history stages. Recent studies have focussed on the ontogeny of adaptative traits in Decapoda that have successfully invaded transitional zones between the sea, freshwater and land. He has published over 190 scientific papers and a book.



Recent Meetings...

The continuing success of the Crustacean Society and Crustacea Decapoda Mediterranea meetings is the result of several key ingredients

1. A high-quality scientific program covering most recent research and developments in carcinology
2. A mix of participants representing both applied researchers and basic scientists; both well established investigators and young upcoming talents.
3. An International Scientific Advisory Board covering a broad range of expertise in carcinology
4. A particular emphasis on innovating research from all areas of crustacean science including systematics, taxonomy, evolution, phylogeny, ecology, behavior, sociobiology, development and larval biology, physiology, symbiosis, parasitology, genetics, molecular biology, biogeography, fossils, taxonomy, palaeobiology, conservation and introduced species.
5. A focus on issues regarding safety, quality, health, nutrition and other themes related to crustacean farming.

The remarkable success of the series of Crustacean Society / Crustacea Decapoda Mediterranea meetings is evident from the progressive increases from one meeting to the next, in the number of participants and the number of countries represented. During the conference significant and innovative developments in carcinology were announced. The participants went away stimulated and bustling with ideas. My sincere thanks go to the Scientific Committee, to Chris Tudge and Chris Boyko for all their hard work on the scientific program. I would also like to thank the Organizing Committee for the great job that they have done to make this meeting happen in an enormously comfortable environment in which to enjoy it all. Finally, I would like to warmly thank our sponsors without whom the realisation of this event would not have been possible.

Best regards
Dr. Elena Mente
Steering Committee Chair
European Governor TCS

TCS 2012 Student Winners

The Crustacean Society (TCS) is pleased to announce the winners of the Best Student Paper and Poster Competition held during the Summer Meeting of the Society held in conjunction with the Colloquium Crustacea Decapoda Mediterranea, June 3-7, 2012, in Athens, Greece. There were 35 high quality competitors. The Best Student Oral Presentation Award was presented to **Magdalini Christodoulou** (Aristotle University of Thessaloniki) for her talk entitled, "Systematics and phylogeography of the genus *Atyaephyra* (Decapoda, Atyidae)" (with co-authors A. Antoniou, C. Arvanitidis, A. Magoulas & A. Koukouras). The Best Student Poster Award was presented to **Verena Kutschera** (University of Ulm) for her poster entitled "Pleon musculature in the Thermosbaenacea (Neocarida; Malacostraca)" (with co-authors P. Shütz, A. Maas & D. Waloszek). Each award consists of a certificate, the equivalent in Euros of 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
Program Officer

Systematics and phylogeography of the genus *Atyaephyra* (Decapoda, Atyidae)

Christodoulou, M.¹, A. Antoniou², C. Arvanitidis², A. Magoulas², & A. Koukouras¹
(¹Aristotle University of Thessaloniki, ²Hellenic Centre for Marine Research, Greece)
magchris@bio.auth.gr

Introduction. The genus *Atyaephyra* de Brito Capello, 1867 was first reported in the Mediterranean region (Sicily) almost 200 years ago. Since then, *Atyaephyra* has been found in various freshwater habitats of Europe, North Africa and Middle East. Despite its long history, a review of older and recent studies indicates that the taxonomic status of the genus *Atyaephyra* is still confusing and uncertain. Furthermore, recent information suggests that cryptic speciation could exist within the genus. The aim of this study is to clarify the taxonomic status within the genus *Atyaephyra* using both morphological and genetic data and to present their phylogenetic relationships.

Materials and Methods. Eight hundred fifty six specimens from throughout the known range of the genus in Europe and the circum-Mediterranean region (48 river basins) are examined both by means of morphology and genetics. In order to detect possible morphological differences among the various populations, a total of 135 features are examined. The investigation of the phylogenetic relationships is based on both mitochondrial and nuclear sequences (cytochrome oxidase I and 28S rRNA, respectively).

Results. The analysis of the morphological features has revealed new, non-overlapping or marginally overlapping distin-



Recent Meetings...

guishing features that can be used to discriminate the examined material into several different taxa. A key for the distinction of these taxa is build using the following features: (1) presence or absence of rostral teeth behind the orbit; (2) number of seta rows on basipodial lobe of maxilla; (3) number of spines on propodus of third maxilliped; (4) number of dorsolateral spine pairs on telson; (5) number of spines on merus of third and forth pereopods, (6) shape of male endopodite of first pleopod, (7) egg size, etc. The genetic data support the monophyly of Atyaephyra and suggest that there are multiple phylogenetic clades present in Europe and circum-Mediterranean area. Furthermore, good correspondence was found between the taxonomic entities defined on the basis of morphological characteristics and the different molecular phylogenetic clades.

Discussion. High genetic and morphological diversity was revealed among the populations of the genus *Atyaephyra* distributed in Europe, North Africa and Middle East. The distinction of the genus into several taxa based on morphological features and the phylogenetic clades revealed by genetic analysis, suggest the reconsideration of the taxonomic status of the genus. Furthermore, the geographic distribution of the major clades of the phylogenetic tree and its topology legitimate the formulation of a possible biogeographic scenario for the genus. The results of the present study stress the need of a more holistic approach by analyzing both genetic and morphological data in order to clarify the evolutionary history of *Atyaephyra* and help overcoming difficulties encountered by classical taxonomy.

Pleon musculature in the Thermosbaenacea (Neocarida; Malacostraca)

Kutschera, V., P. Shütz, A. Maas & D. Waloszek
(University of Ulm, Germany)
verena.kutschera@uni-ulm.de

Thermosbaenacea is a taxon of small-sized (eu)crustaceans not exceeding 5.2 mm in length. They were discovered in 1924 and, most likely, represent the sister taxon to Peracarida. Peracarids are so-called caridoids, for which a specific escape mechanism has been proposed. Also for thermosbaenaceans data on such 'caridoid escape reaction' is available. During this reaction, the pleon is bent rapidly ventrally. This results in a fast backward movement of the animal away from a possible source of danger. It is assumed that such a reaction is correlated to a specific arrangement of musculature in the pleon. The plesiomorphic condition are four even muscle strands throughout the trunk region. In those Malacostraca with a caridoid escape reaction, the muscle system consists, however, of two coiled muscle strands on the dorsal side extending almost throughout the whole pleon, and ventral muscles, which are segmentally arranged. Such an arrangement of musculature is, consequently expected to occur in Thermosbaenacea, but almost nothing is known about the anatomy of Thermosbaenacea, especially of the pleon. We, therefore, investigated the pleon of three species, *Thermosbaena mirabilis* Monod, 1924, *Tethysbaena argentarii* (Stella, 1951), and *Halosbaena tulki* Poore & Humphreys, 1992 via semi-thin sections. By this, we could document the arrangement of the musculature system and, based on these results, reconstruct the ground pattern situation for Thermosbaenacea.



L to R: TCS Program Officer Christopher Boyko, Magdalini Christodoulou, Verena Kutschera, TCS President Christopher Tudge. Photo by Ole Møller

Recent Meetings...

Freshwater Invertebrates of Southeast Asia: Biodiversity and Origin

30 July to 4 August 2012 was the Freshwater Invertebrates of Southeast Asia: Biodiversity and Origin (FISA) conference, held in Maha Sarakham, Thailand. Seventy three oral and poster presentations were enjoyed by 97 attendees from 18 nations. More than half the presentations (42) were on crustaceans, focusing on the Branchiopoda (24, with half on the cladocerans alone), Copepoda (13), Decapoda (3), Ostracoda (2), and Amphipoda (1). The conference proceedings will be published next year in *Freshwater Biology*, and will be edited by Dr. Kay Van Damme, Dr. La-orsri Sanoamuang, Dr. Maria Holynska and Dr. Thomas von Rintelen.

Initial key note speakers set the background with lectures on the geological history, geomorphology, botany, climate history, and biogeography of Southeast Asia. There were various field excursions to local and regional natural history museums, parks and aquaculture facilities. A second conference is planned to be held in another four years.

The FISA conference was hosted Dr. La-orsri Sanoamuang (Faculty of Science, Maha Sarakham University, and Department of Biology, Khon Kaen University) and Dr. Maria Holynska (Museum and Institute of Zoology, Polish Academy of Sciences). More information can be found at <http://202.28.32.130/workshop/index.php>. Photographs from the conference can be found at: http://202.28.32.130/workshop/index.php?option=com_content&view=article&id=70&Itemid=58.

Submitted by

D. Christopher Rogers

Kansas Biological Survey, Kansas University, Higuchi Hall

2101 Constant Avenue, Lawrence, KS 66047-3759 USA

Associate Editor, *Journal of Crustacean Biology*

Liaison, International large Branchiopod Society

Upcoming Meetings...

VII Brazilian Crustacean Congress, 11-14 of November 2012. Belém, Pará - Brazil.



The Brazilian Crustacean Congress (BCC) has been organized every two years for more than a decade and for the first time will be held in the Amazon region. Located in a biologically exuberant ecosystem and a culturally diverse region, Belém is proudly hosting the 7th edition of the BCC.

Our scientific programme will include 10 specialist sessions, 6 short-courses and a range of social events including traditional Amazonian culture. Confirmed invited speakers include Dr. Wolfgang J. Junk, Dr. Richard G. Hartnoll, Dr. Stuart Jenkins, and Dr. Ralf Schwamborn. The congress is co-organized by the Museu Paraense Emílio Goeldi and the Federal University of Pará, and on behalf of the Brazilian Crustacean Society, we welcome all to Belém.

Please visit, <http://marte.museu-goeldi.br/viicbc/>

The Denton Belk Fund

The Crustacean Society would like to remind our readers that it is soliciting contributions to an endowed fund to honor the memory of Denton Belk, a founding member and past treasurer of TCS. The endowment will be used to fund scholarships for students performing large branchiopod research, a field in which Denton excelled and made significant contributions. Students will be able to use funds to support research costs and/or travel (either to scientific meetings or for research purposes).

Denton was exceptionally generous in his lifetime to students in need who expressed an interest and passion for large branchiopods. We feel it is a fitting tribute to our colleague and friend to continue this tradition in his passing. We encourage and appreciate your contribution!

Please note that you do not need to become a member of TCS to make a donation!

Personal checks (in U.S. Dollars) may be made out to "TCS – The Denton Belk Fund". Alternatively, contributions using Visa or Master Card can be made by printing out a copy of the membership application from the Society's website (<http://www.thecrustaceansociety.org>), indicating the amount (in U.S. Dollars) that you are willing to contribute on the appropriate line, and mailing the form to the Business Office at the address below.

Please send contributions to:

Business Office, The Crustacean Society

P.O. Box 1897, Lawrence, Kansas 66044-8897

U.S.A.

For additional inquiries, please contact Mary Belk (TCS Executive Director) by email: (tcs1921@hotmail.com)

Upcoming Meetings...

TCS winter meeting / Society of Integrative and Comparative Biology (SICB) January 3-7, 2013, San Francisco

The Crustacean Society winter meeting is held in conjunction with the Society of Integrative and Comparative Biology (SICB) and this year the meeting will take place from January 3-7, 2013 at the Hilton near Union Square in downtown San Francisco. Tadashi Kawai (co-editor of *Biology of Freshwater Crayfish*) will chair a special session on the Biology of Crayfish which features talks by Gerhard Scholtz, Zen Faulkes, Keith Crandall, Peer Martin, Christoph Chuchold, Antonio Garza de Yta, Teresa Feria, and Francesca Gherardi. The Special Session will take place on Monday January 7th from 8:00-12:00. The Special Session is being sponsored in part by TCS. Additionally there will be over 40 other talks and posters related to Crustacea. There are 12 diverse symposia and I would like to draw your attention to one symposium co-organized by Todd Oakley from the University of California Santa Barbara (Integrating Genomics with Comparative Vision Research of the Invertebrates) as there are multiple crustacean talks included. On a more social note, TCS in conjunction with the Division of Invertebrate Zoology and American Microscopical Society will host a social on Sunday January 6th in the evening from 6:15 until 9:15. The TCS business meeting will be concurrent with the social from 6:15-7:15. Last year it worked out well to grab a bit of food, attend the business meeting and then rejoin non TCS colleagues at the social. There will be the Libbie Hyman auction hosted by Division of Invertebrate Zoology also in conjunction with our social. Be prepared to bid on some exciting invertebrate treasures. We are very fortunate that Burke and Associates negotiated very reasonable room rates for San Francisco (\$129/night) which is quite inexpensive for this city. There are plenty of reasons to attend this meeting in addition to the great science. Extend your visit to San Francisco and walk over the Golden Gate Bridge, visit China town, spend a day at the De Young Museum in Golden Gate Park or browse the shelves at the City Lights Book Store in North Beach. Please plan on attending this year's winter meeting and dropping by the TCS booth to say hello. If you have any questions please feel free to contact me (sltamone@uas.alaska.edu).

Sherry Tamone
SICB Liaison Officer



ERNST MORITZ ARNDT
UNIVERSITÄT GREIFSWALD



Wissen
lockt
Seit 1456

14. - 17. März 2013

www.crusttag2013.uni-greifswald.de

Venue and journey. The meeting will be held in the lecture hall building of the historical campus. If you have not been to Greifswald already, the map provided should be adequate. There will be additional maps of Greifswald and vicinity on our homepage soon.

Program. Language of the conference is German, but contributions in English are also accepted.

Thursday, 14th
registration - 4pm
icebreaker - 6 pm

Friday, 15th
session 1 - 8:30 am
poster session - 6pm
there will be some snacks and drinks served at 7 pm

Saturday, 16th
session 2 - 8:30 am
public talk by Klaus Anger in the historic lecture hall - 6 pm
conference dinner - 7:30 pm

Sunday, 17th
a visit to the maritime and oceanographic museum in Stralsund (optional)

Registration. Please submit your registration and type of contribution (if any) via email to: crusttag2013@uni-greifswald.de
Early bird registration is open from: Oct 1st - Dec 24th
(registration will close Jan 15th, 2013)

students and phd students	€ 45
regular	€ 90
(€ 50 / € 100 after Dec 24th)	





Upcoming Meetings...

42nd Benthic Ecology Meeting March 20-24, 2013 Savannah, GA

The 42nd Benthic Ecology Meeting will be hosted by Georgia Southern University in Savannah, GA on March 20-24, 2013. We have contracted with the Hyatt Regency, located right on the waterfront in the heart of the historic district (<http://savannah.hyatt.com/hyatt/hotels-savannah/index.jsp?null>), for a special room rate of \$169/night with up to 4 occupants per room. We are still in the planning stages, but hope to have an event that will honor the long and successful tradition of BEMs. Again this year we will have the Beneath the Waves ocean film festival and will have a closing night banquet that you will not want to miss! Peter Petraitis has also agreed to revive the "Brevity is the Soul of Wit" special session that will restrict presenters to 5 minutes and 5 slides with 10 minutes for questions and discussion. Talks presented in this session should be topical and thought-provoking. Please contact Peter at ppetrait@sas.upenn.edu if you would like to be involved with this special session.

Stay tuned for more information on the meeting in the near future, including the release of the meeting website and registration costs and procedures. Till then, mark your calendars and plan to be in Savannah March 20-24, 2013!

13th International Congress of Invertebrate Reproduction and Development July 14 - 19, 2013 Detroit, MI, USA



ICIRD-2013 includes a special symposium, sponsored by TCS and organized by Chris Tudge (chair), Penny Hopkins, and Amir Sagi, on reproduction and development in crustaceans. TCS members are encouraged to attend at the lower "members only" registration fee. If you would like to present in the symposium, please contact Chris (ctudge@american.edu), Penny (phopkins@ou.edu) or Amir (sagia@bgu.ac.il). The conference web site is <http://icird.med.wayne.edu>.

Sponsorship opportunities

At Loligo Systems we feel strongly about the international scientific community. As such, we provide support to both junior and senior scientists alike. We are happy to provide support, in the form of sponsorship for:

- meetings
- conferences
- student prizes
- student travel grants

Please contact us for sponsorship opportunities: jh@loligosystems.com

Examples of previous and current events include:

2013

'Remodelling of physiological systems in response to environmental change' - Society of Experimental Biology (SEB) Annual meeting 2013. July 3-6th 2013, Valencia, Spain.

'Physiological Insights into Improving Fish Culture' - AquaCulture 2013. February 21-25th 2012, Nashville, Tennessee (USA).

2012

10th International Congress on the Biology of Fish - American Fisheries Society (AFS) Physiology Section 2012. July 15th-19th 2012, Madison, Wisconsin (USA).

Student prize sponsorship:

Posters:

1. Chad Walock, North Dakota State University
1. Heather Bergan, North Dakota State University
2. Leslie Erin Faught, University of Waterloo
3. Yusuke Ito, Tokyo Institute of Technology

Orals:

1. Warren Green, University of Windsor
2. Jacob Froehlich, University of Alabama
3. Louisa Harding, University of Washington

Fisheries Society of the British Isles (FSBI) - 2012. July 9-13th 2012, Norwich (UK).

XVIth Congress of the Iberian Society of Limnology 2012. July 2-6th 2012, Guimarães (Portugal). <http://www.limnologia2012.com/>

Upcoming Meetings...

TCS-ALCARCINUS Summer Meeting

July 7-11, 2013
San José, Costa Rica



SUMMER MEETING
COSTA RICA
San José, 07-11 July 2013

The forthcoming Summer Meeting of The Crustacean Society (TCS), jointly hosted with the Latin American Association of Carcinologists (ALCARCINUS), will be celebrated between Sunday 07 and Thursday 11 July 2013 in San José, COSTA RICA. Located on the land bridge between North and South America, we sincerely hope that many colleagues around the world will participate in this event.

Recently, we have opened the conference webpage (www.crust-costarica2013.org), which at this point contains some basic information about the event and Costa Rica. Soon we will add important details about registration, abstract submission and invited conference speakers, and therefore we encourage you to visit routinely this webpage in order to find out what is new.

We have started organizing the following sessions:

Sustainable Aquaculture (by Elena Mente, Greece, and Chris Carter, Australia)
Molecular Phylogeny (by Rafael Robles, Brazil)
Ecology (by Luis Miguel Pardo, Chile)
Reproduction & Development (by Carola Becker, Germany)
Crustacean Fisheries (by Enzo Acuña, Chile)
Behaviour and Conservation Biology in Crustaceans (by Francesca Gherardi, Italy)

Photo by Ingo Wehrtmann



Photo by Ingo Wehrtmann

However, other topics are more than welcome, and anybody interested in organizing such sessions should contact the organizers of the event as soon as possible (ingowehrtmann@gmx.de).

Since this meeting is co-hosted by ALCARCINUS, we will have a "Latin American touch":

- 1) the conference speakers will be from Latin America or have a long-standing collaboration with Latin America;
- 2) although the preferred conference language will be English, we will open the possibility to present talks in Spanish or Portuguese, as long as the slides are in English. We sincerely hope that this policy will encourage our Latin American colleagues (especially young researchers and students) to present in Costa Rica the results of their novel and innovating research.

We are looking forward to welcome you to Costa Rica in July 2013 in order to enjoy interesting sessions with participants from all over the world. And last but not least, Costa Rica with its two coasts is a beautiful place well known for its impressive biodiversity, which offers innumerable options to visit the most diverse places.

Ingo Wehrtmann

Host – Summer Meeting Costa Rica 2013

TCS-Latin American Governor, ALCARCINUS-Treasurer
(ingowehrtmann@gmx.de)



Photo by Maria Martinez

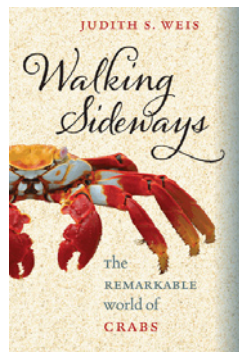


Photo by Julian Schneider



New Publications...

Walking Sideways The Remarkable World of Crabs

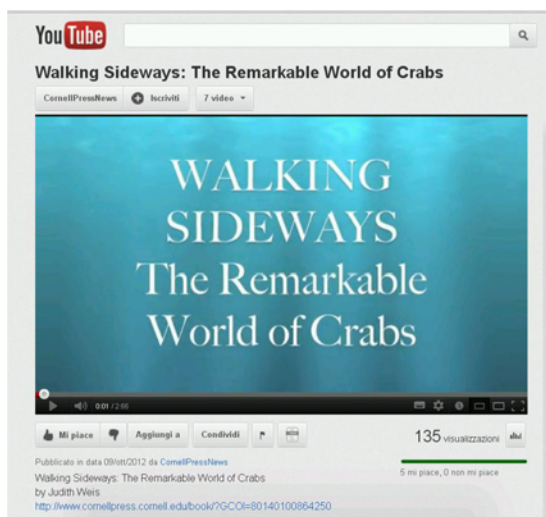


Judith S. Weis

Cornell University Press

<http://www.cornellpress.cornell.edu/book/?GCOI=80140100864250>

Cornell Univ. Press has put out a promotional video for this book. See link <http://youtu.be/EIKmfvzE8k0>



News from Liaison Officers...

Awards to the best student contributions during the VIII Alejandro Villalobos meet- ing

During the VIII Alejandro Villalobos carcinolgy meeting organised by the Universidad del Mar in Puerto Angel, Oaxaca, 1-6 October 2012, two awards were given on behalf of the Latin American Carcinology Association (ALCARCINUS) to best student's oral and poster presentations.

The best poster presentation was awarded to Eric Guillermo Moreno Juárez, of the Instituto de Biología, Universidad Nacional Autónoma de México, for the contribution "Crustáceos decápodos de Zongolica, Veracruz", and the oral award went to Jani Jarquin Gonzalez, of the Laboratorio de Sistemática de Invertebrados Marinos, Universidad del Mar, for the contribution "Cumáceos litorales (Crustacea: Peracarida) del Pacífico sur de México, con claves para las especies del Pacífico oriental tropical".

Michel E. Hendrickx
President of ALCARCINUS



Request for Donations to The Crustacean Society

The Crustacean Society is a non-profit, 501 © 3, organization and survives through raising funds from memberships, institutional memberships, meeting organizational activities and donations. Donation can come in several forms. We ask for donations with the payment of your membership, any time during the year, and in estate planning. Donations to TCS as general unrestricted gifts are the most flexible type of donation for the society and can be used for any purpose. Restricted funds can only be used for the purpose they are restricted for or for the time they are restricted to. Accounting regulations allow a slow disbursement of restricted funds into the general fund based on a discount rate the day of donation. Due to the disbursement regulations, a considerable amount is needed to fund one scholarship per year. Most donations are combined to achieve one scholarship.

The Crustacean Society would like to urge its members to please donate at any point possible. Remember supporting this society and the students in it, are very worthy goals. We are creating the next generation of crustacean scholars by your donations. We wish to urge members to consider mentoring as an important contribution to young science oriented students.

Thecrustaceansociety.com web site can accept donations by credit card over the internet. Checks can be mailed to Mary Schug Belk at 7180 S. Foster Rd., San Antonio, TX. 78222. Please make checks out to The Crustacean Society. Donations can also be made through Allen Press and your membership renewal procedure.

News from Liaison Officers...

30 Years of the “Sociedade Brasileira di Carcinologia” (1982-2012)

In February of 1982, when the Federal University of Rio Grande do Sul hosted the participants of the IX Brazilian Congress of Zoology in Porto Alegre, the scientific study of Crustaceans had already progressed a good way along a successful course as an area of specialization of Animal Biology. Up to 1982, discussions and scientific communications on crustaceans were part of the general programming of the successive Brazilian Congresses of Zoology, always occupying a prominent space because of the number and quality of the results presented and discussed. The growing number of scientific communications in the congresses and in scientific publications both within and outside Brazil, treating carcinological subjects, was revealing the existence of a continually increasing interest on the part of Brazilian and foreign zoologists in investigations on the lives of Brazilian crustaceans. That period of time saw the emergence and development of a specialty endowed with great economic importance, namely the search for alternatives and new technologies for the culture of freshwater and marine crustaceans for human consumption. It was in this context that the traditional national Zoological event welcomed the I Brazilian Symposium on Culture of Crustaceans, as part of the official program of the IX Congress. The large number of participating researchers and the quality of the presentations showed that the specialty of Carcinology and Culture of Crustaceans had already matured sufficiently to support the formation of an association, and more than this, to organize its own scientific meetings, bringing together specialists in the field. There, the Brazilian Society of Carcinology (SBC) was

created. By 1983, in Juiz de Fora, the new society was already fully established and active, and organized the II Symposium in the field.

During the succeeding ten years, the contributions of carcinologists continued to be presented during the congresses of the Brazilian Society of Zoology. Thus, with the accelerating growth and growing importance of the study of Crustacea in Brazil, it was to be expected that the interested community would begin to petition the governing body of the SBC to change the former “Symposia” to actual Congresses, held at separate locations and dates from those of the SBZ. Through this progression, we arrive in this year of 2012 at the VII Brazilian Congress on Crustaceans, to be held in November in the city of Belém, Pará.

During the last 30 years of activity, the SBC implemented a variety of initiatives related to the objectives that guided the creation of this body, in addition to holding seven national congresses and accumulating important accomplishments. An “SBC Information Bulletin” was developed, later changed to “Carcinforme.” A specialized scientific journal, “Nauplius” was created, which is attaining a position of growing importance on the national and international reference scene. A roving central administration was established, with the governing boards...”

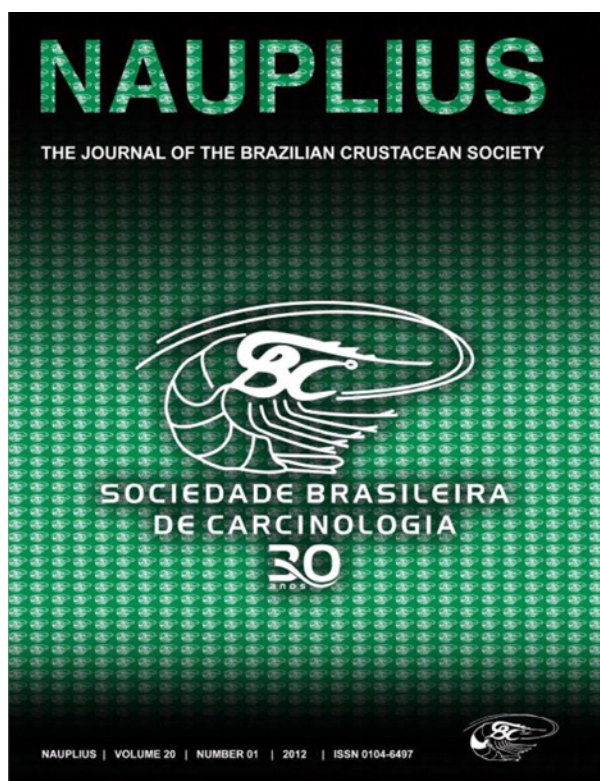
Read more at Nauplius journal 20(1):i-ii, Preface: <http://www.crustacea.org.br/index.php?id=3&subid=1&lang=en>

To celebrate the 30th anniversary of the SBC, Nauplius published a commemorative edition, volume 20(1) in August, and will launch at the VII Brazilian Crustacean Congress, in Belém, Pará (<http://marte.museu-goeldi.br/viicbc/>), a special issue, 20(2), in honor of Prof. Petrônio Coelho. Visit us at www.crustacea.com.br and follow us on Facebook www.facebook.com/SBCarcinologia !

Our sincere thanks to everyone who built and maintained the SBC active and strong during these 30 years!
Cheers!

Paula Beatriz de Araujo
President

Fernando L. Mantelatto
Editor Nauplius





News from Regional Governors...

More news from the SLR (Squat Lobster Roadshow)

Squat lobsters' role in the COSMOS

A new project for 2012-2013, led by Dr Tim O'Hara of Museum Victoria, Australia, shares Cosmos Prize funds awarded to the Census of Marine Life by the Commemorative Foundation for the International Garden and Greenery Exposition, Osaka, Japan. The project, called *Mapping the World's Oceans*, will develop a global map of seabed fauna to guide deep-sea biodiversity management, and will enhance the uptake of CoML data through the Ocean Biogeographic Information System.

Tim, an echinoderm and mapping specialist, and Gary Poore, who has been coordinating international research on squat lobsters and is also at Museum Victoria, have engaged colleagues – from Australia, Sweden, Japan, Brazil, Spain, USA and New Zealand – to scout collections from the South Atlantic, Western Africa, North Indian Ocean and the central Pacific regions to plug geographic gaps in brittle star and squat lobster datasets.

Their statistical analyses will build on earlier work for the Australian Marine Biodiversity Hub that developed habitat models for 267 species of brittle stars, mapped them across one-eighth of the globe, and identified a lateral pattern to their distribution in the Indo-Pacific region. The project also builds on Karen Schnabel et al.'s (2011) biogeographic analysis in the book *The Biology of Squat Lobsters*. A key aspect of this research has been the use of consistent verified taxonomy that allows far better analysis of distributions than has hitherto been possible with marine invertebrates. The team will also apply a new approach to identifying groups of species with similar environmental profiles and modelling their distribution, that was developed in CERF Hub research led by Piers Dunstan of CSIRO.

The project aims to improve the spatial management and conservation of oceans around the world, to frame the way we think about the spatial distribution of deep-sea fauna, and to support further biogeographic investigation, such as examination of patterns of marine species richness and beta diversity across the globe.

The group is accumulating datasets for squat lobsters from about 40 institutions and will visit museums in the US in September-October 2012. If you know of large datasets and have not been contacted please contact Gary.

A workshop will be held to confirm the appropriate mapping methodology for the project after the International Deep-Sea Biology Symposium in December 2012 at Wellington, New Zealand.

See <http://www.nerpmarine.edu.au/news/stars-and-lobsters-drive-global-guide-seabed-fauna>



Joanne Taylor, Encyclopedia of Life (EoL) Rubenstein Fellow



Jo Taylor commenced her 2012 Rubenstein Fellowship in July this year. Over the coming months, she endeavors to provide images and profile pages for around half the known species of squat lobsters to the Encyclopedia of Life. To facilitate the upload of data and images, Jo has built a Lifedesk which you are welcome to view at <http://squatlobsters.lifedesks.org/>



Should you wish to participate by providing images or data consider becoming a member of the Squat Lobsters Lifedesk or contact Jo directly.

Gary C. B. Poore (gpoore@museum.vic.gov.au)

Joanne Taylor (jtaylor@museum.vic.gov.au)

News from the North American Region

Notes: The Public Library of Science (PLOS ONE) has published a series of articles on the global diversity of marine groups, based on the work of those involved with the World Register of Marine Species (WoRMS). The series includes 5 papers on crustaceans (and more are planned to be submitted):

Global Biodiversity and Phylogenetic Evaluation of Remipedia (Crustacea), by Marco T. Neiber, Tamara R. Hartke, Torben Stemme, Alexandra Bergmann, Jes Rust, Thomas M. Iliffe, Stefan Koenemann. <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0019627>

Diversity of the Monstrilloidea (Crustacea: Copepoda), by Eduardo Suárez-Morales. <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0022915>

Diversity of Tanaidacea (Crustacea: Peracarida) in the World's Oceans – How Far Have We Come?, by Magdalena Blazewicz-Paszkowycz, Roger Bamber, Gary Anderson. <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0033068>

The Global Diversity of Parasitic Isopods Associated with Crustacean Hosts (Isopoda: Bopyroidea and Cryptoniscoidea), by Jason D. Williams, Christopher B. Boyko. <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0035350>

Global Diversity of Marine Isopods (Except Asellota and Crustacean Symbionts), by Gary C. B. Poore, Niel L. Bruce. <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0043529>



News from Regional Governors...

Meetings:

Society for Integrative and Comparative Biology (SICB) Annual Meeting 2013

January 3-7, 2013, San Francisco, CA
<http://www.sicb.org/meetings/2013/>

13th International Congress on Invertebrate Reproduction and Development

Includes a symposium on: Crustacean reproduction and development (organized by Penny Hopkins, Amir Sagi, and Chris Tudge)
 14-19 July 2013, Wayne State University, Detroit, MI, USA
<http://icird.med.wayne.edu/>

88th Annual Meeting of the American Society of Parasitologists

June 27-30, 2013, Loews Hotel Le Concorde, Quebec City, Quebec
<http://amsocparasit.org/node/79>

American Society of Limnology & Oceanography, Aquatic Sciences Meeting 2013

17-22 February 2013, New Orleans, LA, United States
<http://www.aslo.org/meetings/aslomeetings.html>

Annual Meeting of the Canadian Society of Zoologists

13-17 May 2013, University of Guelph, Guelph ON
<http://www.csz-scz.ca/meetings.html>

98th Ecological Society of America Annual Meeting 2013

4-9 August 2013, Minneapolis Convention Center, Minneapolis, MN
<http://www.esa.org/minneapolis/>

Evolution 2013

(the joint annual meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN))
 21-25 June 2013, Snowbird, UT
<http://www.evolutionarysociety.org/meetings.asp>

22nd Biennial Conference of the Coastal and Estuarine Research Federation

3-7 November 2013, San Diego, California, USA
<http://www.erf.org/cerf2013>

American Society of Naturalists

Conference entitled "Next generation naturalists: new perspectives on integrating evolution ecology and behavior"
 13-15 January 2014, the Asilomar Conference Center, CA
<http://www.asnamnat.org/node/302>

Jason D. Williams
 TCS North American Governor

Spotlight on...

Dear members of The Crustacean Society

TCS recently received a request for support of the research activities of a TCS member and colleague, Dr Ronke Lawal, in Nigeria, Africa. An edited version of her letter is below. If you can provide any support to help Ronke and/or her students please do so. Ronke's contact is: Dr Ronke Lawal (aolawalare@gmail.com) and contact her directly if you can be of assistance to her.

Chris Tudge, TCS President

Dear colleagues in TCS/Crust-L,

I wish to sincerely seek your kind assistance from my University (University of Lagos, Nigeria). As you have noticed, I have not presented any oral or poster presentations at TCS meetings for sometime now. This is primarily due to the status of our research from a fundamental lack of resources here in Nigeria. The only way to improve this state of affairs is by international collaboration, and this cannot happen without working contacts and direct assistance.

I would like to respectfully ask for some assistance for myself and both my undergraduate and postgraduate students. Your assistance could be with help in the provision of any teaching/research materials (such as textbooks or journals; both hardcopy or electronic), used microscopes, camera lucidas, micro-oculars etc. Your assistance in any form, no matter how small, will make a big difference. Additionally, the provision of bench space in your lab for my students for 3months, 6months, or a year would be of inestimable value to selected students.

Any assistance you can provide to me and my students is very much appreciated and I hope you will look kindly upon my request.

Yours sincerely and thank you!
 Ronke

Keith Crandall changing jobs help recognize a member's achievements

Keith Crandall is now Director - Computational Biology Institute at George Washington University.

Congratulate Keith!

A little about Keith's company. Keith now works at George Washington University. Since June 13, 2012, 64 members have started a new job at George Washington University. Previously at University of Texas at Austin, Keith went from a company with 10,000+ employees to a company with 5,000-10,000 employees. Keith changed companies but stayed in the Higher Education industry.

Spotlight on...

On TCS, SICB and big meetings

In January 2012 I attended the SICB/TCS meeting in Charleston, where I participated in the Barnacle Symposium. It's been a while since I last was at SICB, but I was reconfirmed, if ever needed, how important SICB is to me and to the TCS. Firstly, this Barnacle Symposium (organized by John Zardus) was everything a taxon specific meeting should be, and placing it at a SICB venue was indeed the right decision. Talks ranged from field ecology, over state-of-the-art population biology methods using genomic techniques, molecular level taxonomy, larval biology (my humble self), phylogeny, zoogeography, and mathematical evolutionary ecology. It was fantastic. I met people I knew and was brought up-to-date on their field. But even more importantly, I met barnacle scientists I either did not know or who used methods and approaches, which were novel and exciting to me (and many that challenged my wits to capacity or beyond).

Get me right: I am at heart an organism level biologist. I started as an experimental morphologist, although I have also dabbled in many of the fields listed above. But I do normally lose attention as the whole organism fades away, and I am never more at ease than when looking down a microscope or seeing whole animals alive. Now, this is exactly why meeting colleagues in other, but adjacent, fields is important to me. It refreshes me in my own approach while also prompting me to seek inspiration and collaboration with colleagues that work differently from me. And is there anything more rewarding than when such colleagues attend one of your talks, and you discover that they can use your results in their own work. Call this cross disciplinary exchange if you will.

So my message to us carcinologists, and not least members of the TCS, is this: Do attend big and cross disciplinary meetings like the SICB. Do not be scared that most of the talks and symposia are not exactly in your field. Go and get inspired, and talk and be listened to! Those meetings may not be quite as cozy and "get together" as smaller ones, but let us not forget that SICB meetings are just as much TCS as are any other activities we have in our fine Society. I, for one, was reconfirmed that they have a lot to offer for anyone working in morphology/phylogeny/natural-history (and I am not ashamed to be a natural historian!). Last but not least, as the perhaps most important message: Our students will at SICB get a true and vibrant feeling for what goes on in zoology today.

Jens T. Høeg

One time TCS president and present "barnacle addict"



TCS Fellowship Winners

The TCS Graduate Student Fellowship was awarded to four finalists in 2010, six finalists in 2011 and 2012. Congratulations to the award winners listed below.

2012

Randall Bendis, Pittsburgh PA, 15260, rjb26@pitt.edu, \$1500, Systematics/biogeography

Michael Bok, Dept. Biological Sciences, Univ. Maryland, Baltimore County, Baltimore, MD 21250, mikebok@gmail.com, \$1500, Ecology/Behavior

Cassie Dresser, Mount Pleasant, MI 48858, dress1cm@cmich.edu \$1500, Pop genetics/Physiology

Leanne Elder, Department of Biological Sciences, Kingston, Rhode Island 02881, leab83@my.uri.edu, \$1500 Pop genetics/physiology

Kathryn Feller, Dept. Biological Sciences, Univ. Maryland, Baltimore County, 1000 Hilltop Circle, Baltimore, MD 21250 kate.feller@gmail.com, \$1500, Larvae/Development

Nikos Lessios, Tempe AZ, nicolas.lessios@asu.edu, \$1500 Belk Fellowship

2011

Kristy Deiner, UC Davis, Dept. Animal Science, Davis, CA 95616

Benjamin Hutchins, San Marcos TX

Adiel Klomp maker, Kent, Ohio

Tyler Olivier, Lafayette, LA

Nicole Rivera, Univesitatsstrasse 31, 93040 Regensburg, Germany

Jessica Hua, Pittsburgh, PA

2010

Richard Milner (The Australian National University, advisor Patricia Backwell) received the fellowship in ecology for investigations into coalition defense in fiddler crabs.

Adriana Radulovici (University of Quebec at Rimouski; advisor Bernard Ste. Marie) received the fellowship in systematics for application of barcoding techniques to investigate the amphipod fauna of eastern Canada.

Timothy Astrop (The University of Akron, advisor Stephen Weeks) received the Belk Memorial fellowship for exploring inferences in the morphometry of modern Branchiopoda for application to fossil forms.

Martin Schwenter (University of Rostock; advisor Stefan Richter) received the Belk Memorial fellowship for studies on the molecular ecology of Spinicaudata.

The Crustacean Society sponsors several fellowships in support of graduate student research. Fellowships can be used to purchase supplies, travel for research, participation in off-campus research experience or training, or to take a specialized course of study to advance the awardee's knowledge and skills. Scholarships are awarded annually and may be received only once per awardee. For details go to <http://www.thecrustaceansociety.org>. Deadline is 15 February annually.



Minutes of The Crustacean Society...

Minutes of the Board Meeting of The Crustacean Society

Held at the joint TCS Summer meeting / 10th Colloquium Crustacea Decapoda Mediterranea, Athens, Greece, 3 – 7 June, 2012

The meeting was called to order at 3:21 pm in the Kalliroe I conference room at the Royal Olympic Hotel.

Present: Jason Williams, Chris Boyko, Chris Tudge, Brian Tsukimura, Elena Mente, Ole Møller, Fred Schram, Ingo Wehrtmann, Mary Belk, Gary Poore

Absent: Diego Maruzzo, Joanne Taylor, Shirley Lim, Sherry Tamone, Shane Ahjong

Ad I: Reports from the Regional Governors and the Liason Officers

Ingo Wehrtman gave a report on the status of the preparations for the meeting in 2013 in Costa Rica. The meeting has now received backing from the university and will also achieve status as being of “national interest” to increase the ease of attaining funding etc. The meeting is preliminary set for the second week of July 2013, and it is going to be an official “Alcarcinus” meeting as well. Ingo is proposing a session to contain talks held in Spanish but using English slides to make it easier and more available for the many Spanish speaking South American students / colleagues.

Jason Williams (NA Gov) reported on the contacts he has had with the LOs he is responsible for: Large Branchiopod Working Group LO Chris Rogers has been active in soliciting members for TCS and is attending a conference in Thailand on aquaculture (<http://202.28.32.130/workshop/>).

Renate Matzke-Karas (International Research Group on Ostracoda) announced the launch of a new web-page (<http://www.irgo.uni-koeln.de/>). JW noted that the Crustacea have been well-represented in PLoS ONE with a collection of papers resulting from the World Register of Marine Species (WoRMS). These papers include one on monstrilloid copepods (Suárez-Morales, 2011), one on Remipedia (Neiber, 2011), one on parasitic isopods (Williams & Boyko, 2012), and an additional paper coming out on isopods (by Poore & Bruce). Once Mark Costello finishes the introduction, the WoRMS collection will be formally established in PLoS ONE. JW also reported on his own activities in attending school meetings and other public outreach events. He also mentioned the need for making the membership sign-up form more easily available to the Board members, as well as creating a “Dear Colleague” letter for use in soliciting new members that highlights benefits including grant opportunities for students. Ole Moeller suggested placing such simple forms on the Discussion Board homepage for easy access.

Gary Poore reported on behalf of Joanne Taylor (JT) on the Australian activities. For the first time in a long while, there is a position open as Curator at the Western Australia Museum, and the Australian government is now commissioning a new research

vessel / ship (“Investigator”), to be finished in 2014. JT is now an “Encyclopedia of Life Rubinstein Fellow” enabling her to continue working on Squat Lobsters (The “Squat Lobster Roadshow”). Tim O’Hara (Museum Victoria, Australia) and his team have been awarded substantial funds from the Census of Marine Life COSMOS Prize fund for a project to “Map the fauna on the seafloor”. This project seeks to map biogeographic assemblages for two major taxonomic groups, brittle-stars and squat lobsters. A post-doc position to be based at Melbourne will be advertised soon.

Elena Mente (European Governor & meeting host) gave a short summary of the challenges faced during the planning of the TCS meeting in Athens; quite a few cancellations had been received and it had been difficult for them to fill the required number of rooms at the conference hotel (similar problems as the Hawaii meeting had last year).

Ole Møller reported on the recent activities in the newly begun planning of the next meeting of the German carcinologists (CrustTag2013), which will take place in Greifswald, NE Germany (14. – 17. March, for details see: www.crusttag2013.uni-greifswald.de). The main host will be Prof. Dr. Steffen Harzsch. Prof. Harzsch is currently the LO of the group, but he has expressed his wish to withdraw from the post to OSM. A new LO for the German group is thus needed, and OSM is currently contemplating a few possible candidates (this issue has since been resolved by OM).

Fred Schram presented his JCB editors report (see separate entry).

Ad II-IV

The finance committee has been discussing how to revamp the society’s finances. It has been decided that the Finance Committee will be meeting four times a year (physically or via Skype conferences) to keep a close eye on the budgets. Treasurer Brian Tsukimura gave a detailed overview of the books of the society (as worked out together with ED Mary Belk), and a longer discussion on the separate points ensued. In summary, TCS has been living off the assets (the investment) and not the membership dues, and we have consistently lost money on the printing of JCB, as the “Membership w/ hard copy” rate has not been raised enough to cover the cost (see details in the available budget). Currently, the JCB is not breaking even (i.e., not covering the costs), but the outlook is positive, especially as the previously existing problem with uncollected page charges is now eliminated and the income generation is picking up. It was decided to make printed copies of the journal an optional choice for all membership types (tick box on the membership sign-up form), while keeping the on-line version included for all. The board agrees and wants to underline that the student memberships are to be kept at a very low cost, as these members are the lifeblood and future of the society. In general, a much tighter budget control will be initiated, and a “projected budget” will be done at the beginning of each fiscal year, and will serve as guideline for the follow-up budget meetings of the finance committee through the year. This will ensure that any major deviations can be acted upon quickly thus minimizing budget transgressions.

Minutes of The Crustacean Society...

Ad V

As an answer to the budget deficits of the recent years a concerted effort has been undertaken to actively counteract the negative trend.

A: it was moved and the vote was carried to increase the dues as follows:

Member online & print: currently: \$125, new: \$145

Patron member, from currently \$150 to \$175.

B: Being a very heavy budget post, the officer travel reimbursements will be revamped and generally cut back along these lines. From now on, the Business as well as Board meetings will take place at the TCS Winter meeting (at the SICB meeting). Currently, most Exec officers are in the US and this will cut the cost significantly. Not all summer meetings will include board meetings. All Business meetings will be held in connection with some kind of (small) social event, as this has proved very successful. The President will be the only officer to have all meetings reimbursed, but it was made clear that he/she is expected to attend all meetings (Summer, Winter, ICCs, SICBs), as he/she is the main public face of TCS. However, it is important that we do not forget the symbolic value of the “perk” of having paid travel expenses as an incentive for filling the offices of the society. A capped sum of US\$1000/year/officer for travels was decided upon, to have a planning basis for the projected budgets. This sum can be split on two meetings if wanted.

C: The measures to increase the membership numbers are beginning to show effect, but must be kept up, e.g. homepage improvements, and so on.

D and E: At the moment, the student awards are coming out of the general funds, which is not tenable. Ways of increasing the donations to TCS were discussed, as this possible source of income for the society has been neglected in the past. The possible ways of making donations to TCS will now be much more prominently placed in the Newsletter, on the homepage and possibly also in the Journal. Especially important to solicit donations from patron members,

Chris Boyko suggested that the society set up a so-called “Crowdfunding” project. There are several different ways of arranging such (typically internet based) fundraising drives, but the homepage called “Rockethub” was presented as one of the possible ways of doing this. Via this homepage, colleagues have already been able to collect not inconsiderable funds for rather “exotic” projects. Different strategies were discussed, primarily focusing on making the financing of student travel grants / awards the primary “selling point”. Chris Boyko will look more into the matter and more info / examples of projects can be found at www.rockethub.com.

The detailed review of the society’s books had revealed that a fund named “JCB Support Fund” had been more or less overlooked and neglected, and now only contained \$175. The Board decided to transfer the funds from the JCB Support fund to the Student Scholarship fund and possibly disband the former fund altogether, and a “Zoomerang / SurveyMonkey” vote will be carried out in the nearest possible future (post hoc comment: has been done and the motion to transfer the fund and disband the fund has

been carried). Chris Boyko also suggested having TCS USB-flash drives made, as merchandise, to compliment the pins being sold now. Other merchandise items should also be considered.

Gary Poore offered to look into having a full copy of JCB scanned and made digitally available, at least to the Board Members. GP would have the necessary local resources to do so, but in order to avoid copyright issues with Brill, BioOne and JSTOR, the copy cannot be made freely available to the general public.

Others:

Ad I

On the issue of homepages: Kareen Schnabel has been continuing her preparatory work on the matter of switching TCS to a new and professionally designed homepage. She has taken in an offer from a company to design and set up a homepage of ca. AU\$1000. Several members of the board considered this to be on the very low side and figures of up to 7000 US\$ were mentioned as realistic by some members. The general consensus was for Kareen Schnabel to continue her preparatory work and Secretary Ole Møller agreed to assist and advice Kareen in the process. He stressed the importance of such a homepage being made the right way the first time, and thus making sure that the stability and usability is 100%, not just for the visitors but also for the person from TCS who is going to support and run it. It was also discussed in general, how to keep the new homepage maintained. The board did not make a final decision on the point, but it was agreed that the job should be given to someone outside the board (possibly a student or other member with sufficient computer skills) but kept under the auspices of a board member. However, due to the current financial situation of the society, there will be no funds available for this project before 2013 at the earliest.

Ad II-V

Some of these points had already been covered in the earlier parts of the meeting, so a more general discussion ensued. Some specific points were made: a list of possible officers is to be made in the near future and kept on the Discussion Board (Exec Committee level). A general discussion on the future symposia and the strategies involved in both planning and successfully attaining funding for them took place.

The meeting was adjourned at ca. 19:00 hrs.

Respectfully submitted
Ole Sten Møller
TCS Secretary





TCS Board Election, 2012

Board of The Crustacean Society Nominations for Officer Vacancies (2013-2014).

The following have been nominated for positions on the Board of The Crustacean Society for the period 2013–2014:

Secretary:

Ole Sten Møller (incumbent) – Universität Rostock. Institut für Biowissenschaften. Allgemeine und Spezielle Zoologie.

Write in nomination: _____

Treasurer:

Brian Tsukimura (incumbent) – Professor of Biology, Department of Biology, California State University, Fresno, California.

Write in nomination: _____

European Governor:

Elena Mente – Assistant Professor, University of Thessaly, School of Agricultural Science. Department of Ichthyology and Aquatic Environment, Fytoko street, GR 38446 N. Ionia Magnisias. Volos, Greece.

Elena Mente is an Assistant Professor at the University of Thessaly in Greece and an Honorary Research Fellow at the University of Aberdeen, UK. Her PhD research on crustacean physiology at the University of Aberdeen was funded by a European Commission Training and Mobility Fellowship. Her research interests lie in aquatic animal nutrition and physiology with a main focus on decapod crustacean physiology and nutrition. Her publications include edited volumes, chapters in books and research papers in many peer-reviewed journals. She has also published two books on titled '*Reproductive Biology of Crustaceans*' and '*Nutrition, Physiology and Metabolism of Crustaceans*'. She has been a member of the coordinating team for a European Commission funded project on aquaculture and coastal, economic and social sustainability project (AQCESS). She was the European Governor of the Crustacean Society in 2010-2012 and organised and chaired the 2012 Crustacean Society Summer meeting in Athens. In addition, she is a member of the European Aquaculture Society (EAS) Board and also an expert at the European Scientific, Technical and Economic Committee for Fisheries (STCEF) (reserve list). She has received several grants on issues of organic aquaculture and nutrition and reproduction of Norway lobster.

Steffen Harzsch – Professor, Cytologie und Evolutionsbiologie, Zoologisches Institut und Museum, Universität Greifswald, Soldmannstrasse 23, D - 17487 Greifswald.

I received my PhD in 1995 from the University of Bielefeld, Germany, with a thesis on the development of the nervous

system in zoea and megalopa larvae of selected Brachyura. After postdoctoral posts in Wellesley College/Massachusetts and the University of Ulm, studying embryonic neurogenesis and neurophylogeny of crustaceans and other arthropods, I obtained my habilitation in 2001 and continued at Ulm, where much of my research is centered around the question: what can structure and development of the arthropod nervous system tell us about arthropod phylogeny? In 2006, I moved to the Max Planck Institute for Chemical Ecology in Jena, Germany, as group leader in neuroanatomy in Bill Hansson's group. My work in Jena focused on the crustacean olfactory system during the evolutionary transition from sea to land and in the course of these studies I had opportunity to work on the giant robber crab, *Birgus latro*, on Christmas island/Indian Ocean. I studied not only the brain structure of this remarkable beast but also coordinated a telemetric study on these animals behavior using GPS transponders. I was on Christmas Island, just this past October to study *Birgus latro* again!

In 2008, I secured tenure as professor in Cytology and Evolutionary Biology at the Zoological Institute of the University of Greifswald/Germany, dating back to 1456. Here, I am able to maintain a fruitful collaboration with Stefan Richter's group in nearby Rostock, as well the Gerhard Scholtz group in Berlin, Jens Høeg's lab in Copenhagen as well as colleagues in Lund, Stockholm and Helsinki. Fortunately, my labs here in Greifswald are not as old as 1456 and my department uses methods such as immunofluorescence, confocal laser-scan microscopy, 3D reconstruction, TEM and SEM to analyze the nervous systems of crustaceans and myriapods in an evolutionary context. We also try to integrate ethological aspects wherever possible and maintain a strong collaboration with Bill Hansson's group in Jena. A list of my publications can be found here: <http://www.mnf.uni-greifswald.de/institute/fr-biologie/zool-institut-museum/cytologie-und-evolutionsbiologie/ag-leiter.html>

Write in nomination: _____

North American Governor:

D. Christopher Rogers – Kansas Biological Survey, Kansas University, Higuchi Hall, 2101 Constant Avenue, Lawrence, KS 66047-3759 USA

D. Christopher Rogers is a crustacean systematist and ecologist at the University of Kansas in both the Kansas Biological Survey and the KU Biodiversity Institute. Christopher specializes in the Branchiopoda and freshwater Malacostraca. He has more than 50 peer-reviewed publications. Christopher has been a TCS member and sometimes supporting member since 2000. He is currently TCS liaison to the International Large Branchiopod Society and has served as an associate editor for JCB since 2005. Christopher is currently vice president of Southwest Association of Freshwater Invertebrate Taxonomists and, in the past, served as a member of the International Union of Conservation and Nature (IUCN) Species Survival Commission, Invertebrate Steering Committee and the Inland Waters Crustacean Specialist Group.



TCS Board Election, 2012

Christopher is an active member of several entomological, carcinological and conservation oriented organizations, and has worked with local, state and federal policy makers in the US, Australia, Brazil, Mexico, Chile, and the Marianas Islands on various water quality and conservation issues. Christopher has lead or helped organize taxonomic workshops for the Southwest Association of Freshwater Invertebrate Taxonomists.

Jason Williams (incumbent) – Associate Professor at Hofstra University, New York

Since May 2011, I have served as the North American Governor for the Crustacean Society. During that time I have regularly attended TCS meetings and helped promote the society. I would enjoy the opportunity to continue this work and expand the reach of the society, especially with a new generation of students. My studies on crustaceans began as an undergraduate at Franklin and Marshall College. Afterwards I went to the University of Rhode Island, earning a M.S. in Zoology and a Ph.D. in Biological Sciences. I am currently an Associate Professor at Hofstra University and my research focuses on the symbioses between crustacean hosts (mainly hermit crabs) and their symbionts such as boring barnacles and parasitic isopods. I have published over 35 peer-reviewed papers on these topics and was awarded the Douglas Nolan Award for academic achievement in the sciences (University of Rhode Island) and the Lawrence A. Stessin Prize for outstanding scholarly publication (Hofstra University). My work has been funded by the National Science Foundation, the Sigma-Xi Scientific Society, and the Lerner-Gray Fund for Marine Research.

Write in nomination: _____

Indo-Pacific Governor:

Joanne Taylor (incumbent) – EOL Rubenstein Fellow, Collections Online content coordinator Museum Victoria, Australia

Joanne commenced her career in Marine Science as a Research Assistant in the Crustacea Department at Museum Victoria in 1994. She completed a PhD in 2003 under the supervision of Dr Gary Poore (Museum Victoria) and Prof. David Macmillan (The University of Melbourne) focused on the taxonomy of the amphipod family Phoxocephalidae. As Collection Manager of the Marine Invertebrates Department at MV (2001–2009), Jo conducted research on the crustacean fauna of Australia whilst managing the vast collection. Over this period she supported the research activities of a wide network of local and international colleagues through the provision of specimens and data for loan and exchange.

Since 2009, Jo has ventured into the wonderful world of squat lobsters. In the role of Comarge Research Fellow she teamed up with international colleagues to co-edit the award winning book *The Biology of Squat Lobsters*, whilst also publishing taxonomic papers and producing interactive delta keys to species. She has an

ongoing interest in the phylogeny of the family Munidopsidae and is currently working with colleagues to resolve the classification of this fascinating group.

In 2011, Jo received a Smithsonian funded Rubenstein Fellowship to publish species pages and images for squat lobsters on the Encyclopedia of Life, one of the world's largest aggregators of biodiversity information. Jo is currently kept very busy juggling her Rubenstein Fellowship with her work as sciences content coordinator for many of the Museums online projects including apps and websites. Jo has very much enjoyed representing the Indo-Pacific region as TCS governor for the past 2 years attending TCS conferences in Qingdao and Hawaii. She will be participating in the TCS Summer meeting in Costa Rica 2013 as a member of the scientific committee.

Write in nomination: _____

The Secretary shall keep the Society calendar of events, advise officers of deadlines, record minutes for all Board and Annual meetings, issue notices for meetings of the Board and the Society, conduct the correspondence of the Society and Board, be responsible for mailing ballots, and present a written yearly summary of the Society's activities to the Membership. The Secretary shall compile and edit the Society newsletter, or shall supervise this activity if it is delegated by the Secretary to a newsletter editor.

The Treasurer oversees the financial affairs of The Crustacean Society.

Regional Governors shall serve to represent the best interests of membership in all activities of the Board. In addition they shall serve to actively promote the Society through recruitment of Society members and Institutional subscriptions to the Society's journal in their respective regions. Regional governors are expected to attend regional carcinology-related meetings, advertise and promote the Society at these meetings, and promote relations between regional societies and the Crustacean Society. Governors are expected to file a yearly report to the Board of Governors (or the Society newsletter) on their activities (e.g., meetings attended, awards given, new members, important liaison issues).

Voting for the election is done electronically at

<http://www.thecrustaceansociety.org/>

Ballots can be cast anytime after November 1, 2012.

Voting will close on 31 December 2012.

Shane Ah Yong, TCS President-Elect