



The Ecdysiast

Newsletter of The Crustacean Society

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Message from the President...

Dear TCS members,

“Konnichiwa”, greetings from Japan! (Konnichiwa means “Hello” in Japanese).

This is my first message to you as President of The Crustacean Society, and I hope to serve you well in the coming two years. The transfer of power became official when I received the red “Presidential Tie” from our esteemed Past-President, Dr. Rafael Lemaitre, at The Crustacean Society Summer Meeting in Tokyo, Japan, which was hosted by Carcinological Society of Japan. I would like to thank Rafa for his outstanding leadership and contributions during the past couple of years. The Tokyo Meeting was a happy marriage of the two crustacean societies, and many carcinologists from all over the world (over 340) attended this wedding reception! As Secretary General of the Organizing Committee and TCS President-Elect (at that time), I thank once again from the bottom of my heart, all attendees for having many excellent oral and poster presentations as well as useful discussions. The Proceedings volume is now being prepared, and it will be published within this year.

It was a longtime dream for us to hold the TCS Meeting in Asia. The idea of having TCS Summer Meeting in Japan arose 10 years ago when Dr. Jens Høeg (University of Copenhagen, Denmark) became TCS President. In the message from Jens on the web-site of TCS Tokyo Meeting, he stated “As the president of The Crustacean Society 1999-2001, my primary intention was to create tight cooperation with national carcinological societies around the world. Carcinological Society of Japan (CSJ) is one of the largest and most well functioning such entities, and I am delighted that the TCS and the CSJ are now announcing a joint meeting”.

Furthermore, Jens wrote on our newsletter ECDYSIAS when he became the TCS President, “The Crustacean Society is changing. I am the first non-U.S. president of the society. Even more, our next president (from 2002) will be Gary Poore from Australia. This in itself is proof of a society on the move.” I am the first Asian President, and I would like to say “The Crustacean Society is Changing more and more”. We have truly grown into an international society!

The fall election was over. We welcome two new officers; Dr. Fernando Mantelatto as Latin American Governor and Dr. Ole S. Møller as Secretary. Fernando has already contributed greatly to TCS, as he acted as a Chairperson of TCS Mid-year Meeting in Brazil which was a great success! Perhaps, most of you know Dr. Ole S. Møller from his excellent papers or have met him during his frequent attendances to TCS Meetings, ICC, or other conferences. Fernando and Ole succeed our two outgoing officers, Dr. Michel Hendrickx and Dr. Christopher Tudge. Our sincere thanks must go to Michel and Chris, both of whom have served TCS so well for so many years, and I thank Chris who will start his efforts as President-elect. Drs. Jianhai Xiang, Christopher Boyko, and Sherry Tamone will continue their valuable works as our Asian Governor, Program Officer, and SICB Liaison Officer, respectively. We welcome, or welcome back, these hard-working scientists to the TCS Board. And, in addition to current officers and governors, I still need advice, support and guidance from our past presidents, Drs. Rafael Lemaitre, Jeffrey Shields, Trisha Spears, Gary Poore, Jens Høeg and past officers, to make decisions on various activities of TCS.



As important as the above officers are to the smooth functioning of our society, I can honestly say that *Journal of Crustacean Biology* continues to flourish under the leadership of our Editor, Prof. Dr. Frederic Schram. His initiatives have ensured that JCB gets the best papers and greatest exposure. Another special thank is due to Dr. Diego Maruzzo who has kept our newsletter *Ecdysiast* going since last year. We also thank our knowledgeable treasurer, Mrs. Mary Belk. Because of her expertise, we hope to move TCS forward and increase the benefits that members receive.

As Rafa wrote in November 2008 issue of *Ecdysiast*, we have been facing a serious problem for continuing decrease of our membership. Since 2006, we have experienced a 15.2% drop in the number of members. The members and network make the Society worthwhile, and we all need to make an effort to recruit new, young members, or bring back any that have dropped their membership. Please download the TCS poster and membership forms from our website <http://web.vims.edu/tcs/>, and display it outside your lab, and display it at other scientific meetings you attend.

Finally, I urge all of you to start planning for our upcoming meetings, particularly the Seventh International Crustacean Congress to be held jointly with the Chinese Crustacean Society this June in Qingdao, China. The landscape of Qingdao is often described as the pearl on the crown of the Yellow Sea. Surrounded by the sea on three sides, Qingdao attracts many tourists with its charming seascape, sunshine and fresh air. Please visit the congress website <http://www.crustacea.org.cn/7th/index.html> and register now!

Sincerely,

Akira Asakura, TCS President



Board of The Crustacean Society Call for Nominations for Vacancies (2011-2012)

The Crustacean Society officers and governors serve for two-year terms, half being elected each year. The term of the President and President-Elect is limited to a single term, but governors and other officers may serve multiple terms. Nominations are now called for the following positions on the Board of The Crustacean Society for the period 2011-2012: **Treasurer, Secretary, North American Governor, European Governor, Indo-Pacific Governor.**

The Treasurer shall be in charge of funds, make necessary disbursements, direct and oversee fund-raising activities, and keep the financial records of the Society. The Treasurer shall present a statement of financial accounts, audited by the Financial Committee, at the time of the annual business meeting. The Treasurer chairs the Financial Committee.

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.

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).

Members of TCS may nominate themselves or another member, provided the nominee agrees in writing to the nomination. Nominations should include name, position, institution and e-mail address, plus a 200-word curriculum vitae, and be addressed to Chris Tudge, TCS President-Elect (ctudge@american.edu).

Voting for the election will be done electronically at <http://tcs.allenmm.com>. Ballots can be cast anytime after November 1, 2010. An announcement for the starting of ballots will appear in the November 2010 edition of 'Ecdysiast' and will also be sent through CRUSTSOC to remind people to vote. Voting will close on 25 December 2010.

Chris Tudge, TCS President-Elect

The Crustacean Society Board Members, 2010

President:

Akira Asakura
Kobe University, Japan
Email: asakura@people.kobe-u.ac.jp

President-Elect:

Chris Tudge
American University and National Museum of Natural History,
Washington D.C.
Email: ctudge@american.edu;

Past-President:

Rafael Lemaitre
National Museum of Natural History, Washington, D.C.
Email: lemaitrr@si.edu

Treasurer:

Mary Belk
San Antonio, Texas
Email: mary_belk@hughes.net

Secretary:

Ole S. Møller
University of Rostock, Germany
Email: ole.moeller@uni-rostock.de

Editor, Journal of Crustacean Biology:

Frederick R. Schram
University of Washington, Washington
Email: jcb@whidbey.com

Asian Governor:

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

European Governor:

Jens Høeg
University of Copenhagen, Denmark
Email: jthoeg@zi.ku.dk

Indo-Pacific Governor:

Shane Ahyong
National Institute of Water and Atmosphere,
Wellington, New Zealand
Email: s.ahyong@niwa.co.nz

Latin American Governor:

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

North American Governor:

Regina Wetzter
Natural History Museum of Los Angeles County, California
Email: rwetzer@nhm.org

Program Officer:

Christopher B. Boyko
Dowling College, Oakdale, New York
Email: cboyko@amnh.org

SICB Liaison Officer:

Sherry Tamone
University of Alaska Southeast
Email: sherry.tamone@uas.alaska.edu



The Ecdysiast is published twice yearly in May and November and it is available in electronic form at <http://www.vims.edu/tcs/ecdyasiast.htm>. 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:

Diego Maruzzo, Department of Biology, University of Padova, via U. Bassi 58/B, I-35131, Padova, Italy
voice: +39-049-8276238
fax: +39-049-8276230
e-mail: maruzzo@bio.unipd.it



JCB Editorial Report for volume 29 (2009)

It is time for a report for the *JCB* publication year just concluded: volume 29 (2009), the blue volume.

Submission number 3136 arrived right after the opening of the year 2009, and submission 3274 came in at the end of December 2009. Our Impact Factor rose on our output through 2008 to 1.109, up from 0.985 the year before. Our costs per page edged upward to \$96.81 in 2009 from \$93.38 in 2008. Total pages published were down to 619 from 764 in 2008, which probably accounted for the shift in costs.

The AllenTrack on-line submissions saw 139 entries into the system throughout 2009, but only 124 of these were new, workable submissions that were processed and proceeded to peer review and some kind of decision. [The difference arises from aborted attempts to upload a submission, or withdrawn or duplicate submissions.] In addition to these 124, currently we have 19 manuscripts out for review, 21 out for revision, 24 sent to production [30(2)], and 25 in a queue waiting for production [30(3, 4)]. Issue 30(2) will see first proof PDFs in a couple of weeks.

Of the 124 viable submissions in 2009, 35% were either summarily declined by me, or were rejected after peer review – higher than the 29% rejection rate of 2008. In addition to quality concerns, many of the rejections this year were because I felt the paper was better suited to another journal. I continue to believe that as our Impact Factor has risen, we attract more submissions but that the quality of each and every one of those is not necessarily better. Hence, the up-tick in rejections is a normal winnowing for quality and appropriateness.

The spread of articles in volume 29 is as follows:

Anatomy & Func. Morph.	12
Behavior	5
Ecology	15
Larvae & Development	5
Paleobiology	1
Physiology	10
Systematics, Evol. & Biog.	13
α -Taxonomy	5
Conservation	1
Short Communications	5
Commemorative	1
Book Reviews	1

A few of the highlights included, amongst others, a review of the development of phyllopodous limbs in leptostracans and branchiopods, exploration of the problems of COI sequences and implications for barcoding, an increase in genomics and population studies in general, the alarming spread of marmerkrebs to Madagascar, and description the hemolymph system in thermosbaeaceans. We had a nice even spread through the various disciplines, and while α -Taxonomy saw a drop, some of the papers in Systematics included new species descriptions within a broader context.

When we look at the number of times various countries are represented amongst the authors of these submissions, we see a very international spread. Although the number of American authors increased from last year, the number of papers from the USA is down somewhat while those from outside the USA have increased

Argentina	1
Australia	18
Belgium	2
Brazil	16
Canada	13
China	5
Costa Rica	2
Czech Republic	2
France	2
Germany	10
Japan	22
Madagascar	1
Malaysia	1
Mexico	13
New Zealand	2
Portugal	5
Russia	1
Singapore	1
South Korea	1
Spain	4
Taiwan	6
Turkey	4
UK	6
USA	57

The New Year brings in the color green. We also are making another shift away from dealing with the vagaries of the world's postal systems and have gone to first proofs distributed by PDF in e-mail, which should allow savings in postage costs and lost production time waiting for the snail-mail to get the job done. We are also examining the issues related to possibly taking *JCB* to an on-line format, although no immediate switch is anticipated at this time.

Finally, I must thank my Associate Editors: Shane Ahyong, Antonio Baeza, Ray Bauer, Jen Buhay, Keith Crandall, Francesca Gherardi, Mark Grygier, Kari Lavalli, Christopher Rogers, Bernard Sainte-Marie, Gerhard Scholtz, Tom Simon, Sherry Tamone, and Martin Thiel. They have been of immense help in maintaining content quality.

Respectfully submitted,

Frederick R. Schram
General Editor, *JCB*

TCS Treasurer's Report

TCS has had a reasonable year based on the market and economic conditions. We made \$9,591.69. In April we set aside \$30,000 in a two year CD, with Wells Fargo so that we would get better interest. We have been able to pay all our bills and have not had to dip into savings. The worst thing is we are still loosing membership. We need to focus on adding membership. BioOne and JSTOR are now bringing in a nice income on papers accessed online. All of the indications I can find say we should be at the bottom of the recession and possibly recover by the end of 2010. We are sitting in a nice position to enjoy the upward movement of the market.

Financial Standing Dec. 31, 2009 for The Crustacean Society

	2009	2008
Charles Schwab Accounts	Total \$330,049.34	\$263,039.86
GDB Memorial Scholarship Fund (Wellington)	70,508.42	53,391.59
General Endowment Fund (Harbor Fund)	23,908.66	16,851.03
Vanguard Windsor II	215,199.08	159,209.52
Vanguard Index Growth	16,432.42	8,043.52
Investment Funds		
Harbor HY Bond Fund	3,157.63	2,412.34
Navellier Mid Cap Growth	0	22,706.29
Cash	842.95	425.57
Wells Fargo Savings & Ck & CD	83,322.63	62,187.50
Douglas County BK CD's	71,155.09	68,673.10
Douglas County BK Checking	23,157.54	46,762.42
Editor's office prepaid expenses	3,862.20	935.17
Treasurer's office prepaid expenses	1,500.00	0
Total TCS Funds Dec. 31, 2008	\$513,046.80	\$441,598.05
JCB Expenses	2009	2008
Editor's Stipend	15,000.00	15,000.00
BioOne Access	0	0
Allen Track	1,710.00	3,287.50
PDF files purchased	2,697.98	1,118.91
Printing, Distribution	62,676.79	72,833.31
Total	82,084.77	92,239.72

Expenses paid	2009	2008
Other officer Expenses	7,823.39	1,999.99
Society Operations	13,312.54	23,579.14
JCB	82,084.77	94,967.77
Editor's Office	6,152.97	2,613.85
Treasurer's Office	8,504.45	6,676.22
Newsletter	0	938.30
SICB Contribution	250.00	3,830.01
Awards	2,550.00	8,282.90
Summer Meeting	6,000.00	4,131.36
Banking Fees	2,349.10	1,939.44
Tax Preparation	0	1,675.00
Total Expenses	129,027.22	150,633.98

Income For	2009	2008
Money from Meetings	0	0
Contributions	930.00	530.00
General Fund	635.00	160.00
Endowment Fund	90.00	65.00
JCB	25.00	0
D Belk M Sch Fund	180.00	305.00
JCB	64,213.32	70,503.17
JSTOR	2,924.46	2,910.92
BioOne	31,701.00	31,872.00
Color Plates	3,560.36	2,764.40
Figures	0	4,151.00
Page Charges	23,470.00	26,823.00
Revisions	2,007.50	1,856.25
Single Issue Sales	550.00	100.00
Tables	0	0
Shipping	0	25.60
Library Subscriptions	25,642.10	27,259.45
Membership Dues	45,455.00	55,315.00
Membership Label Sales	0	0
Unrealized Loses on Invest.	67,009.48	(147,390.39) Not figured in
Bank and CD interest	2,163.49	3,493.77
Refunds	215.00	0
Total Income	205,628.39	157,101.39
Minus expenses	129,027.22	150,633.98
Difference	\$ 76,601.17	6,467.41
Without Investment gain	\$ 9,591.69	-150,633.98
With Investment loss		-140,922.98

Respectfully Submitted
Mary Schug Belk Treasurer, The Crustacean Society



Request for Proposals – SICB 2012

The SICB Program Officers are requesting proposals for symposia for the (Jan 3-7) 2012 SICB meeting in Charleston, South Carolina. As TCS Program Officer, I encourage members to organize a symposium for this 2012 meeting. Very successful TCS supported symposia were held at SICB 2008 in San Antonio, TX (Advances in Decapod Crustacean Phylogenetics) and SICB 2009 in Boston, MA (The Biology of the Parasitic Crustacea). A symposium on “Population Dynamics of Crustaceans” will be held at SICB 2011 in Salt Lake City, UT. As you can see, TCS does not sponsor a symposium every year at SICB, but we would be happy to do so, if members organize and put forth ideas.

Organizing a symposium does take some work (knowledge from personal experience) but it is a great way to bring together researchers on topics you find interesting and to make new friends and contacts. Please note that the standard number of individuals for a SICB symposium is 11, although less is acceptable, and that the society journal Integrative and Comparative Biology has the right of first refusal for publishing symposium proceedings. Symposia can be enhanced with co-sponsorships from Divisions of the SICB, and support from TCS. When speakers apply for symposia sponsorship, SICB will reimburse part of the registration costs. Information on submitting symposia for the 2012 meeting in Charleston is now a link on the home page of the SICB website: (<http://www.sicb.org/meetings/2012/callsymp.php3>). The deadline for submissions is August 16, 2010. Contact either myself (cboyko@amnh.org) or SICB Society Program Officer Brian Tsukimura (BrianT@CSUFresno.edu) to coordinate the development of your proposal.

Christopher Boyko
TCS Program Officer



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.vims.edu/tcs>).

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.



SICB student winners

The Crustacean Society (TCS) is pleased to announce the winners of the Best Student Paper and Poster Competition held during the annual meeting of the Society for Integrative and Comparative Biology, January 3-7, 2010, in Seattle, Washington. There were 36 high quality competitors. The Best Student Oral Presentation Award was presented to **Emily Grason** (Western Washington University, USA) for her talk entitled, "Non-consumptive effects in a marine food chain with both native and invasive species" (with co-author B. G. Miner). The Best Student Poster Award was presented to **Michael Rosario** (University of California, Berkeley, USA) for his poster entitled "Probing the evolutionary biomechanics of elastic energy storage in mantis shrimp" (with co-authors J. R. A. Taylor, & S. N. Patek). Each award consists of a certificate, US\$100 cash, and a one-year membership in The Crustacean Society, including subscription to *The Journal of Crustacean Biology*. TCS thanks those members who served as judges and all student participants.

Christopher B. Boyko
Program Officer

Non-consumptive effects in a marine food chain with both native and invasive species

Grason, E., & B. G. Miner (Department of Biology, Western Washington University, Bellingham, WA, USA)
grasone@students.wvu.edu

Top-down effects by predators are important in structuring marine ecosystems, and predators control prey densities and distributions via consumptive and non-consumptive effects. However, in food chains with invasive species, the magnitude of non-consumptive effects is not yet well studied, and might be different from chains with native species due to different evolutionary histories. In particular, invasive species might not have evolved inducible defenses or offenses to native predators, which should reduce or eliminate non-consumptive effects. We tested whether predator effluent from a native crab altered the avoidance behavior and feeding rates of two invasive oyster drills (the marine whelks *Urosalpinx cinerea* and *Ocinebrina inornata*) to determine if non-consumptive effects occur in this system. In both species of drills, individuals increased their avoidance behavior three to five-fold and decreased their feeding rate by 48% - 77% in response to chemical cues from native rock crabs eating conspecific drills. This suggests that rock crabs could help preserve a commercially and ecologically important resource (oysters) through both a consumptive- and non-consumptive trophic cascades. However, the existence of an avoidance response may grant the drills a refuge from predation that prevents the crabs from acting as an effective biotic control. The specificity of the non-consumptive effects was further explored with experiments that attempted to determine what elements of the cue were eliciting a behavioral change. Cue response specificity is particularly relevant in invasive species, as it may help managers predict how novel species will likely incorporate into native communities.

Probing the evolutionary biomechanics of elastic energy storage in mantis shrimp

Rosario¹, M. V., J. R. A. Taylor¹, & S. N. Patek² (¹University of California, Berkeley, CA, USA; ²Department of Biology, University of Massachusetts, Amherst, MA, USA)
michaelvrosario@gmail.com

Structural and biomechanical variation in elastic energy storage mechanisms is fundamental to the rich evolutionary diversity of fast movements. Mantis shrimp (Crustacea: Stomatopoda) power their fast and powerful predatory appendages with an exoskeletal compressive spring. Here we compare the mineralization patterns of the spring and elastic energy storage mechanics across 10 species of mantis shrimp, including species with hammer-like, spear-like and intermediate raptorial appendage forms. Using computed tomography to visualize mineralization patterns, we found that the primary spring is conserved across all species, but its size, length and articulations vary considerably. A materials testing machine was used to measure the maximum compression force of the spring and the spring constant. We found that spring constants were nearly overlapping across species, even with a 200-fold range in body mass; however, body size scaling relationships varied across taxa. For example, three taxa exhibited no correlation between spring mechanics and body size while *Gonodactylaceus falcatus* exhibited a significant positive correlation between body size and maximum compression force and a non-significant association with spring constant, and *Gonodactylus chiragra* showed no correlation between body size and maximum force and a significant negative correlation with spring constant. This variation in spring form and mechanical behavior suggests that different prey capture strategies may indeed be associated with evolutionary variation in the underlying power-amplifying springs.

The Crustacean Society Website

The Crustacean Society website, <http://www.vims.edu/tcs>, provides our members with information on meetings, society news, business, instructions for the *Journal of Crustacean Biology*, the *Ecdysiast*, and other helpful links. Features include: (1) membership applications and benefits to members; (2) society poster and page for recruitment (great pics!); (3) fliers and official info for upcoming meetings; (4) downloads such as an official copy of Martin & Davis (2001) *Classification of the Crustacea*; and of course (5) the line for the online submission to the *Journal of Crustacean Biology*. This website is designed to serve you and your diverse interests. If you have an idea, item, link, or information of general interest, please forward it to jeff@vims.edu for inclusion in our website. We're also looking for participants to help in maintaining this site; step up if you're interested!



Upcoming Meetings...

7th International Crustacean Congress (ICC7) June 20th-25th, 2010 Qingdao, China

It is our great pleasure to announce and invite you to attend the 7th International Crustacean Congress (ICC7), to be held on June 20-25, 2010 in Qingdao, China. The meeting is organized on behalf of International Crustacean Council and hosted by the Chinese Crustacean Society. The Conference will cover all aspects of crustacean research, including taxonomy, phylogeny, ecology, zoogeography, biochemistry and physiology, genetics and molecular biology, fisheries and aquaculture etc. The meeting will be comprised of plenary lectures, poster sessions, symposia and general sessions. Please be on the watch for further information regarding registration, accommodations and post-meeting tours through the following website: <http://www.crustacea.org.cn>.

The abstract submission deadline extends to 15 May 2010.

We look forward to meeting colleagues from all over the world and to offer an interesting and productive environment with plenty opportunities for a fruitful exchange of ideas. For inquiries, please contact Dr. Fuhua Li by email icc7qd@gmail.com

Ruiyu Liu
President Emeritus, Chinese Crustacean Society
Chinese Academician
Professor of Institute of Oceanology
Chinese Academy of Sciences
7 Nanhai Road, Qingdao 266071
P.R. China

Jianhai Xiang
President, Chinese Crustacean Society
Professor of Institute of Oceanology
Chinese Academy of Sciences
7 Nanhai Road, Qingdao 266071
P.R. China



To everybody passionate about crayfish!

We are delighted to announce the opening of the website

<http://eucrayfish2010.conference.univ-poitiers.fr/>

for the conference

European Crayfish: Food, Flagships and Ecosystem Services to be held in Poitiers, France (26th 29th October 2010)

at which we will also have the pleasure of hosting the EIFAC crayfish working party discussions.

Papers may be submitted through the conference organizers to the online journal KMAE (Knowledge Management of Aquatic Ecosystems: <http://www.kmae-journal.org/>) for publication in a special issue dedicated to this conference.

Registration deadline (regular: end June; late: 20th September)

A good number of sponsors gives us the opportunity to offer low registration fees (including social dinner and field trip) for both permanent colleagues and students.

Please disseminate the information to any interested scientists and managers in your European country, because we can seat up to 110 participants.

Hoping you will be enthusiastic to join us.

All the best

Catherine Souty-Grosset

Contact: eucrayfish2010@ml.univ-poitiers.fr



Upcoming Meetings...

International Senckenberg Conference Biology of Freshwater Decapods Frankfurt am Main, Germany December 8-12 2010

Dear Colleagues,

This is the first circular for the international symposium on the Biology of Freshwater Decapods. The symposium will take place from 8 to 12 December 2010 in Frankfurt at the Senckenberg Research Institute and Natural History Museum.

Now is a good time to focus the attention of the scientific community on freshwater crabs, crayfish, and shrimps, because of the upsurge of interest in recent years that has resulted in significant advances in the taxonomy, ecology, and evolution of this group. In addition, recent Red List conservation assessments indicate that significant numbers of species around the world are threatened with extinction by destruction of freshwater habitats, overuse of water, pollution and diversion of drainages, and over-harvesting for human consumption. The result is that we are rapidly losing a good part of the biodiversity of the freshwater realm worldwide, and trends indicate that this situation is becoming increasingly serious.

We are inviting you to Frankfurt in an attempt to bring together recognized specialists on freshwater decapods and others with an interest in this group, to take stock of the state of the art of the discipline and to discuss the future challenges posed by numerous multidisciplinary scientific questions and problems.

The four-day conference will include presentations and posters that focus on all aspects of freshwater decapod biology including taxonomy (both classic and molecular), biogeography (including historical aspects), paleontology, parasitology, evolution, and ecology. However, we do not encourage contributions that use freshwater decapods only as model organisms, or those that deal with aquaculture because there are already a good number of specialized congresses in these areas (but contributions that draw biological information from aquaculture experience would be welcome).

Please feel free to distribute this announcement to colleagues and suitable lists.

Scientific Organizing Committee:
Michael Türkay, Senckenberg Research Institute Frankfurt
Neil Cumberlidge, Northern Michigan University
Peter Ng, Singapore National University

New Publications...

Crustacés de la Réunion IRD Editions, France by Joseph POUPIN

This book presents an inventory of the crustacean (decapods and stomatopods) of the island of Réunion. Species were collected and photographed during a field work undertaken from March 28 to April 17, 2008. The observations were made in 16 stations located on the west coast of the island. The coast and the shallow waters of the lagoon were sampled with specimens deposited in the Muséum d'Histoire naturelle of Saint-Denis, Réunion and in the Museum national d'Histoire naturelle, Paris.

This inventory was supplemented by the identification of species from photographs taken during the ANR-Biotas research program of the University of Réunion and those transmitted by local underwater photographers. A few deep-water specimens, deposited at the aquarium of Saint-Gilles or photographed during a pot fishing survey made in October-November 2008, between 200-600 m, were also studied.

These new observations at Réunion were complemented by a bibliographic compilation of the crustaceans species already reported from the island, including a history of the main sampling events and a documented checklist of the local species.

In total, 483 species are reported from Réunion, including 64 new records. Approximately 180 species are illustrated in color and presented by main habitats: terrestrial, estuaries, sandy bottoms, rocky or coral bottoms, symbiotic associations, and deep sea. A zoogeographical analysis shows that most of the crustaceans of Réunion are distributed throughout the Indo-West Pacific region, with a few species endemic to the western Indian Ocean.

An Internet database was constructed in parallel with this research project for future updates of the inventory. Accessible at <http://biodivreunion.free.fr/>.

The book, 29.7x21 cm, 140 pages, is in French. It is richly illustrated and very accessible to foreign readers. It can be ordered at: IRD Éditions-Diffusion, 32, avenue Henri-Varagnat, F - 93143 Bondy cedex. Tél. : 33 (0)1 48 02 56 49 - Fax : 33 (0)1 48 02 79 09, diffusion@ird.fr. Order form is also available at this link (<http://biodivreunion.free.fr/pdf/reunion-order-form.pdf>). (28 Euros, plus postage).





Current Research and on-line Publications...

SCALPELLID PEDUNCULATED BARNACLES

As part of a study on the reproductive ecology and evolution of scalpellid barnacles I would appreciate to receive notification on any such samples. I am especially interested in collections that provide enough specimens for studying population parameters and in samples fixed for DNA extraction. But all samples are of potential interest. My interest extends also to "scalpellid" related taxa such as Calantica, Scillaelepas etc.

Contact:

Jens T. Høeg, Ph.D., D.Sc., CICS
Comparative Zoology
Department of Biology, University of Copenhagen
Universitetsparken 15, DK-2100 Copenhagen, Denmark
pho. +45 28751247 fax +45 35321200, jthoeg@bio.ku.dk

PERACARID DATABASE

My online Peracarida databases, bibliographies, and taxon lists were recently revised at <http://peracarida.usm.edu/>.

I am eager to correct errors that exist in these materials; if users find items that requires my attention, I would appreciate learning of them so that I can make the appropriate modifications. Taxa featured at the site are the Lophogastrida, Stygiomysida, Mysida, Cumacea, and Tanaidacea.

Gary Anderson

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 regular link: www.jcb.allentrack2.net.

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.vims.edu/tcs>), 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 Treasurer) by email: (marybelk@att.net)



Obituary

Klaus J. Müller (1923–2010)

Klaus Jürgen Müller died peacefully on March 12, 2010 in his home in Bonn, Germany. With Klaus Müller, we have not only lost a carcinologist with a strong paleontological background, but also a pioneer in the field of evolution and phylogeny of Crustacea. Klaus Müller was born on February 6, 1923 in Berlin. He studied geology and paleontology at the universities of Berlin and Tübingen from 1946 to 1951. He received his doctor's degree in 1951, and became assistant professor in Berlin in 1960. Four years later he received a call to Bonn, where he was full professor for micropaleontology until his retirement in 1988. Klaus Müller had not only contributed a lot to science, but also took much care of the education of students. He had always tried to find microscopic material in exceptional preservation that makes a deep insight into palaeobiology and systematics possible. This was, for example, silicified and phosphatized material. Klaus Müller's main research topics were the phosphatic conodonts, minute fossils possibly belonging to early craniote chordates, and the bivalved shields of so-called phosphatocopines, supposed ostracodes, but which later turned out to be the sister group to Eucrusea, i.e. far away from the ostracodes. Klaus Müller met his own requirements in the mid 1970ies when he discovered a new, formerly unknown type of preservation in material from Sweden. This includes fully three-dimensionally preserved arthropod fossils that have even their limbs, setae and other delicate external details still in place. It became known as the 'Orsten' type of preservation and has been dated to the late Cambrian, the time between approx. 510 and 490 Mio years BP. Most of the arthropods turned out to be crustaceans of various kinds of evolutionary levels, minute forms that may have lived in the meiofauna. Not astonishingly, many larval stages could also be discovered in the material, which added substantially to the knowledge of the development of features also during growth. It is not only that Klaus Müller had discovered the material himself during own fieldwork, but he had also developed a treatment process to isolate the specimens. Accordingly, Klaus Müller changed direction of his research and came into carcinology. In 1979 he first published a few specimens documented by scanning electron microscopy. There he hinted at the significance of the material for studies touching a number of subjects of carcinology. The German Science Foundation was as interested in Klaus Müller's research and funded his work on 'Orsten' fossils (and even later the continuation of the work in Ulm). This allowed him to expand his workgroup by more people who helped him with processing of the material and isolating the specimens. He was also able to hire the biologist Dieter Waloszek, who supported him as an assistant in the scientific work, adding more documentation methods, such as scientific drawing and three-dimensional clay modeling. Subsequent work on the material revealed more and more that the Cambrian Crustacea Klaus Müller had discovered have a significant bearing on assumptions on early crustacean evolution and phylogeny. Some species display characters that are present in extant Crustacea but others that are not. Klaus Müller and his team revealed which characters evolved gradually from the stem species of Crustacea to specific nodes inside the Crustacea. With this they could draw an evolutionary scenario that is not sole-

ly based on assumptions but, in particular, on evidence provided by once living species. Even after his retirement in 1988, he continued to collaborate in producing publications about the 'Orsten', supporting expeditions in order to find more 'Orsten'-type material, and generously handing over the material to the Ulm team to continue research on the 'Orsten'. Klaus Müller became Foreign Fellow of the Royal Swedish Academy of Sciences in 1986. In February 2003, just 5 days after Klaus' 80th birthday, the Pander Society honored him with the Pander Medal for his "significant and sustained contribution to the study of conodonts". In 2005, Klaus and a number of other scientists dealing with 'Orsten' material and being interested in arthropod and crustacean phylogeny have founded the international C.O.R.E. group (Center for 'Orsten' Research and Exploration). This group aims at demonstrating that the combination of zoological and paleontological expertise enlarges the knowledgebase of paleontological data significantly (see the website for more information). In 2009 the German Paleontological Society dignified Klaus Müller for his lifework and his outstanding research in the field of micropaleontology with an honorary membership. Klaus Müller authored more than 120 publications, 50 of which deal with Crustacea, the last one being from 2008. Since the late 1980ies more 'Orsten' fossils could be discovered in different areas around the world, such as in the UK, in Australia, in Canada, in Poland, in Siberia, and eventually in China – one of Klaus Müller's great hopes and dreams. When Klaus Müller died, he was very busy in studying gemstones, a passion that had always accompanied his scientific career. Thank you, Klaus, for a splendid time together with you.

Andreas Maas, Dieter Waloszek & Joachim T. Haug, University of Ulm
<http://www.core-orsten-research.de>

Condolences can be addressed to: Dr. W. Globig, Kabelweg 19, 53859 Niederkassel, Germany



Klaus J. Müller in 1993 on the Isle of Öland, Sweden



Spotlight on...

Lost, missing or destroyed: What happened to historic collections?

I serve as a reviewer for various proposals and curator of marine invertebrates at my university's collection. I often am asked where someone can find older holotypes and specimens mentioned in the literature. There seems to be a lack of information on collections that definitely have been destroyed or those for which numerous specimens are lost or missing. I offer the information I can contribute and hope that other correspondents will add to this or offer corrections. I would be glad to hear that some of these specimens have been located.

Collections of the Chicago Academy of Sciences (manuscripts and specimens of William Stimpson, including material from the North Pacific Exploring Expedition, 1853-1856): destroyed in Chicago fire, 1871. See Deiss and Manning, 1981, "The fate of the invertebrate collections of the North Pacific Exploring Expedition, 1853-1856", *History in the Service of Systematics*, Society for the Bibliography of Natural History, London, 79-85. Lost specimens also included some material on loan from the Smithsonian Institution.

Collections of the California Academy of Sciences (type material of Lockington and Harford): destroyed in fire of 1906. Any illustrations (which did not accompany the published descriptions) also were destroyed. There is no evidence that any duplicates or voucher specimens from the collections were sent elsewhere.

Collections of the U.S. Fish and Wildlife Service (USF&W) vessels *Oregon* and *Oregon II* in the Gulf of Mexico, Caribbean and western Atlantic, 1950's-1960's: these massive collections, taken by trawls, were divided among the U.S. National Museum, Texas A&M University (TAMU) and the USF&W laboratory at Pascagoula, Mississippi. Carideans at the U.S. National Museum of Natural History (USNM) probably remain there. Texas A&M University has a large portion of the midwater carideans and Pandalidae. Linda Pequegnat studied the galatheids, but these specimens, although catalogued at TAMU, did not remain in our collections. Some of the Galatheidae were sent to the USNM. Other galatheids and many of the carideans were sent back to the U.S. Fish and Wildlife laboratory, where they seem to have been destroyed by neglect. These specimens included some cited by J. Thompson (Ph.D. dissertation, TAMU, 1963).

Collections of midwater crustaceans and other invertebrates of R.V. *Velero IV* of the University of Southern California in 1960's off California and Baja California, Mexico: specimens of certain lobster larvae, carideans and sergestids remain at the Natural History Museum of Los Angeles County but the majority of the material never was sorted and has since been destroyed.

Collections of decapod crustaceans from Dubai, United Arab Emirates, by Thomas Bright of Texas A&M University, 1981: identified and catalogued into the TAMU collections but many specimens are missing. Some definitely were sent out on loan but never returned, others currently are out on loan, and a large portion is missing. Efforts to locate these missing specimens so far have been fruitless.

Collections at Texas A&M University at Galveston: my students and I went through the collections several years ago and gradually transferred all "interesting" decapods to the main campus here in College Station. Included are specimens taken during a study of benthic fauna off the Mississippi River delta to Alabama, collections from offshore salt domes and nearshore fauna from off Galveston. Decaying material, specimens with no data or large series of common crustaceans either were discarded or used for teaching. Most of the specimens taken during large-scale sampling were preserved originally in 10% formalin and were unsuitable for genetic analysis.

As of this writing, TAMU also has a very large series of minute amphipods, cumaceans, etc. taken in box cores, but we have neither the time nor the "man-power" to sort and catalog the material. The older specimens at TAMU-Galveston are sorted in small vials by project or station, not by species, and are very difficult to access. Data for their stations and species lists are not readily available. Our catalog for all crustaceans remains largely in hard copy in hand-written entries, in chronological order by date of accession, on green lined paper. Efforts to transfer the data to digital format are proceeding very slowly, for there are no funds or personnel available to do the work. Specimens taken by the cruises of the R.V. *Alaminos* and more recent collections recently were re-shelved by major taxon and in alphabetical order by family, genus and species. We can locate material quickly by looking at the shelves. All holotypes were sent to the USNM, as were all decapods taken by trawl during the Deep Gulf of Mexico Benthos project (DGoMB) in 2000-2004.

Mary Wicksten, Department of Biology, Texas A&M University, College Station, TX 77843-3258





Spotlight on...
30 years of The Crustacean Society
all past presidents





New TCS pins are available

We are selling them at all meetings for US\$2.50 each or 3 for US\$6 from now onwards. There will be no on-line ordering or posting (to save costs). The blue pin is a regular TCS membership pin with the date the society was established on it (1980). The red pin is the special 30th anniversary issue with 1980-2010 dates on it. Both pins are the same price.



Become a Member NOW

There are many benefits to being a member in The Crustacean Society:

Members receive savings on page charges in the Journal of Crustacean Biology (JCB).

Members receive online access to JCB through www.BioOne.org and electronic access to back issues of the journal through JSTOR!

Members receive complimentary pdf files of their publications in JCB.

Members can receive the Journal at a great price, essentially at cost!

Members receive lower registration fees at SICB and regular TCS functions.

Members receive biannual mailings of the society's newsletter, the Ecdysiast.

Members receive breaking news on CRUST-SOC, a members-only list for the society.

Student members are eligible for two different fellowships for research or travel.

Students are also eligible for Best Student Paper and Poster awards at several scientific meetings (e.g., SICB, TCS, ECC, ICC).

Students receive the journal at an excellent price, below cost!

But best of all, members enjoy the camaraderie of their fellow crustaceophiles!

If you are a NPR listener, you know the bi-annual pledge drive drill. Just like supporters of NPR, you'd be surprised how many of our crustacean colleagues are not members. In your lab, are your crustacean colleagues members of this venerable society? Are the students? How about your crusty colleagues outside your institution? Encourage them to become a member today. Print out the membership form (<http://www.vims.edu/tcs/form.html>) and leave it on their chair.

If you don't need another copy of JCB in your lab, sign up for membership without the journal – only \$35 – and such a bargain.

Regina Wetzer
TCS North American Governor
rwetzer@nhm.org