



# The Ecdysiast

Newsletter of The Crustacean Society

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## *Message from the President...*

Dear TCS members,

This past January I began my tenure as your new President for the next two years, succeeding Jeff Shields. His shoes, and those of previous Presidents who preceded him, will be hard to fill, but I am thankful and honored to have the opportunity to serve. It is customary for the incoming President to thank the outgoing, now Past-President, and the rest of the Officers (both current and past) for their hard work to advance the mission of TCS. I am pleased to continue with this tradition for it is because of their efforts and the support of the membership that TCS has been able to evolve from its modest beginnings as the “Crustacean Club” organized by a handful of carcinologists, to the vibrant and internationally recognized society that it is today, with nearly 650 members and a first class journal. Our voices can be heard today all over the world through our members and system of Regional Governors, and habit of organizing meetings in as many continents or countries as we can get away with (in the coming years at USA, Japan, and China; see detailed list in this issue). Crustaceans rule just about every place on this planet, so why not join them?

TCS has progressed rapidly in the last few years. First and foremost, there is JCB, our pride and jewel. We have been very fortunate to count with the invaluable services of outstanding editors. First it was the late Arthur G. Humes from 1981-1999, followed by Dave Camp from 2000-2005, and now Fred Schram who has made many improvements and has transformed even the color of the journal (silver, red, orange, yellow, and which will be next?). He has put together a team of associate editors that help him to assure the highest quality of papers through a meticulous peer-review process. In fact, as I was writing this missive (March) Fred informed me that JCB passed a milestone: the 3,000<sup>th</sup> manuscript submission was received since JCB first began, and even more new submissions came in after that!! The diversity of manuscript topics is increasing, with more ecology and physiology manuscripts coming in; and the number of nationalities of authors is also increasing. JCB has quickly moved into the 21<sup>st</sup> century. As past-President Shields has reported in the last few issues of the Ecdysiast, operations have been modernized, and submissions and peer-review are now done electronically through Allen Track, a nirvana stage for any editor; JCB is available online through JSTOR; and new revenues are being generated through our association with BioOne.

Virtually nothing works these days without money, and TCS is no exception. We are also fortunate to have Mary Belk at the helm of our Treasury. She carefully and wisely navigates our financial ship through stormy and calm seas, keeping us away from temptations to make sure our accounting numbers stay well in black deep seas, rather than run aground in red shallow reefs. We are now helping the cause of carcinology (e.g., offering fellowships, supporting students, sponsoring key meetings, competitions, making special awards, holding reprint auctions, etc.) as we have never done before.

Yet, TCS still faces many challenges, and there is always room for improvements. One of our past presidents once said that the first thing most presidents do when taking office is propose a change in the Constitution... However, I confess that is not among my top priorities—Jeff Shields has just presided over some much needed changes (see approved changes in Ecdysiast, vol. 26, no. 2:

*continued...*



6), and our Constitution is in good shape. Instead, as I look ahead to help TCS, I find that among good causes to pursue include finding ways to promote and support more taxonomic publications in JCB. There is stiff competition from rapid, online publication outlets that tend to attract taxonomic papers away from journals such as JCB. Finding creative ways to increase membership will continue to be one of the top issues in the TCS Board agenda. On the financial side, I find that TCS could explore the possibility of a giving campaign to support carcinological studies. This issue came to the forefront of the Board's agenda recently as result of a generous offer from founding member Larry Abele to donate his entire, phenomenal Crustacea library to TCS. TCS is well set up now to accept cash donations but not to handle donations such as Larry's library which would require storage, a cost-effective sale system, detailed accounting, and complying with US Internal Revenue Service tax requirements. Regrettably, we had to decline Larry's offer, and luckily his library found a good home at his school, Florida State University. Furthermore, most of his books and reprints were (or will be) scanned for easy consultation. In summary, I feel the President mostly needs to listen carefully, and engage the membership at large to address any fundamental needs as well as increase participation in all TCS affairs. I am always open to suggestions.

Abrazos a todos, and hope to see as many of you as possible next summer in Galveston,

Rafael Lemaitre  
President, The Crustacean Society



### 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 manuscript tracking page for JCB submissions (updated monthly). 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](mailto: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!





## The Crustacean Society Board Members, 2008

**President:**

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

**President-Elect:**

Akira Asakura  
Natural History Museum and Institute, Chiba, Japan  
Email: asakura@chiba-muse.or.jp

**Past-President:**

Jeffrey D. Shields  
Virginia Institute of Marine Science, Virginia  
Email: jeff@vims.edu

**Treasurer:**

Mary Belk  
San Antonio, Texas  
Email: mary\_belk@sbcglobal.net

**Secretary:**

Chris Tudge  
Biology Department, American University  
and Department of Zoology,  
National Museum of Natural History, Washington D.C.  
Emails: ctudge@american.edu;  
TudgeC@si.edu

**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 Hoeg  
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:**

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

**North American Governor:**

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

**Program Officer:**

Christopher B. Boyko  
American Museum of Natural History, New York  
Email: cboyko@amnh.org

**SICB Liaison Officer:**

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



The Ecdysiast is published twice yearly and mailed with the May and November issues of the Journal of Crustacean Biology. In addition, each issue, from May 1997 to present, is available to be downloaded as a pdf at The Crustacean Society's website (see <http://www.vims.edu/tcs/ecdysiast.htm>). 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:

Rachael A. King, Southeastern Regional Taxonomic Center, Marine Resources Research Institute, PO Box 12559, Charleston, SC 29422-2559, USA. Ph: 843-953-9794. Fax: 843-953-9820. Email: KingR@dnr.sc.gov

## Recent Meetings...

### Symposium on Decapod Crustacean Phylogenetics SICB (San Antonio) January, 2008

Decapod crustacean biologists from around the world converged in San Antonio, Texas, in early January 2008 to remember the Alamo and participate in a symposium titled "Advances in Decapod Crustacean Phylogenetics" as part of the Society of Integrative and Comparative Biology (SICB) annual meetings and TCS winter meeting. Jody Martin, Keith Crandall, and Darryl Felder organized the symposium with generous support from the National Science Foundation, The Crustacean Society, The Society of Integrative and Comparative Biology (including its Divisions of Invertebrate Zoology and Systematics and Evolutionary Biology), The American Microscopical Society, and The Society of Systematic Biologists. The symposium included keynote talks by leading carcinologists including Fred Schram, Gerhard Scholtz, Alicia Toon, Gary Poore, Christoph Schubart, Charles Fransen, Chris Tudge, K. H. Chu, Paul Clark, Megan Porter, Chris Boyko, and Peter Ng. In addition, there was a wide variety of contributed papers in two special linked sessions with contributors that included Dean Pentcheff, Akira Asakura, Regina Wetzer, Sammy De Grave, Neil Cumberlidge, Cheryl Morrison, Rodney Feldmann, Brent Thoma, Heather Bracken, Kristin Hultgren, Dale Tshudy, and many others; more than 60 authors from 12 countries were represented by presentations or posters. One highlight of the meeting was the awarding of the TCS Excellence in Research Award to Dr. Danièle Guinot, who was also in attendance. The meeting was followed by a workshop providing a forum for discussions on characters, methodologies, and worldwide activities in decapod phylogeny. The meeting and workshop were excellent opportunities for researchers to make great connections and embark on new collaborations. The resulting papers of the symposium will be published in a volume of Crustacean Issues.

Keith Crandall  
Jody Martin  
Darryl Felder



Jeff Shields, Chris Tudge, Chris Boyko and Gary Poore

### Student winners

The Crustacean Society (TCS) is pleased to announce the winners of the Best Student Paper and Poster Competition held during annual meeting of the Society for Integrative and Comparative Biology, January 2-6, 2007, in San Antonio, Texas. There were 32 high quality competitors. The Best Student Oral Presentation Award was presented to Michelle R. Phillips (University of Oregon, Eugene, USA) for her talk entitled, "Global transcriptional profiles are molt-stage dependent in the Dungeness crab, *Cancer magister*" (with co-authors N.B. Terwilliger & E.A. Johnson). The Best Student Poster Award was presented to Audrey McDonald (Colorado State University, USA) for her poster entitled, "Increased nitric oxide synthase expression in the activated molting gland of the land crab *Gecarcinus lateralis*" (with co-authors L. Martin, E.S. Chang, J.A. Covi & D.L. Mykles). 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

#### Global transcriptional profiles are molt-stage dependent in the Dungeness crab, *Cancer magister*

Phillips, M.R.<sup>1</sup>, N.B. Terwilliger<sup>2</sup> & E.A. Johnson<sup>3</sup> (<sup>1,3</sup>University of Oregon, Eugene, OR, USA & <sup>2</sup>University of Oregon, Charleston, OR, USA)  
phillipslayden@gmail.com

We have been using a functional genomics approach to investigate the molecular mechanisms that underlie the physiology of molting and environmental stress responses in the decapod crustacean, *Cancer magister*. The complex physiological transformations that occur throughout the crustacean molt cycle require precise temporal and spatial regulation. We used cDNA microarray analysis to examine gene expression profiles that vary as a function of the molt cycle from late pre-molt megalopa to 2<sup>nd</sup> instar juvenile. We observed distinct periods of coordinated expression in large suites of genes across the molt cycle that had not been recognized previously. We also identified 18 unique genes encoding cuticle proteins with differential expression during molting in *C. magister*. These genes are thought to be both structural and regulatory elements of the crustacean exoskeleton, and our expression data indicate that some cuticle proteins may play different roles during the molt cycle of *C. magister* than in other crab species. Additionally, our data support previous work on the hemolymph proteins hemocyanin and cryptocyanin indicating that these genes are independently regulated during molting. Further, our data also support a role for cryptocyanin in generation of the new exoskeleton in *C. magister*. Our results provide a broad overview of the complex transcriptional patterns that take place during the dynamic process of molting. This information is crucial for understanding and interpreting gene expression data in crustaceans and provides a foundation for future studies into other physiological responses.

## Recent Meetings...

### Increased nitric oxide synthase expression in the activated molting gland of the land crab *Gecarcinus lateralis*

McDonald, A.<sup>1</sup>, L. Martin<sup>1</sup>, E.S. Chang<sup>2</sup>, J.A. Covi<sup>1</sup>, and D.L. Mykles<sup>1</sup> (<sup>1</sup>Colorado State University, Fort Collins CO, USA & <sup>2</sup>Bodega Bay Marine Lab, Bodega Bay, CA, USA)  
audmcdon@simla.colostate.edu

z Molting in crustaceans is regulated by ecdysteroids produced in the Y-organs (YO) located in the lateral cephalothorax. Ecdysteroid secretion by the YO is suppressed in the presence of molt-inhibiting hormone (MIH), a neuropeptide produced in the X-organ of the eyestalk ganglia (EG). The binding of MIH to its cell surface receptor in the YO activates a signal transduction cascade, resulting in decreased production of ecdysteroids. Recent research indicates that the pathway may involve nitric oxide synthase (NOS), an enzyme which catalyzes the production of nitric oxide from oxygen and arginine and is known to be present in the YO. Additional research shows that the sensitivity of the YO to MIH varies over the molting cycle. To illuminate the role of NOS, we eye stalk ablated (ESA) land crabs, effectively removing the endogenous source of MIH and quantified NOS expression levels in the YO from intact and 1, 3 and 7 days post ESA animals. Total mRNA was isolated from excised YOs, and cDNA synthesized via reverse transcription. NOS cDNA was then quantified using real-time PCR. Results indicate a significant increase in NOS expression over seven days in the absence of MIH. Quantification of ecdysteroid levels in hemolymph by radioimmunoassay also indicates a significant increase in ecdysteroid concentration seven days post ESA. Supported by National Science Foundation. (IBN-0342982).

### Update on the Workshop on Marine Squat Lobsters

In the last Ecdysiast I reported on the workshop held in September 2007 at the National Institute of Water and Atmosphere, Wellington, New Zealand, involving ten taxonomists with an interest in the taxonomy of squat lobsters (Galatheidae, Chirostylidae and Kiwaidae). Their objectives were to compile taxonomic resources (species list, bibliography, electronic keys, electronic library) to publish on the web. The workshop was sponsored by Continental Margin Ecosystems (COMARGE), one of Census of Marine Life field projects. In the six months since the meeting a checklist and synonymy of the world's species in these families has been completed and is almost ready for publication. A bibliography in EndnoteX format has been compiled, totalling almost 1000 citations, that is accompanied by linked pdfs of 800 papers and relevant sections of books. Together these will provide an essential tool for anyone working on these abundant crustaceans. The next step is to build illustrated electronic keys to all the genera and families – progress on these is anticipated in 2008. I maintain a mailing list to which these resources will be distributed. Contact me if you wish to join.

Gary C. B. Poore, Museum Victoria  
gpoore@museum.vic.gov.au

## 2010 SICB

### Request for Symposia Proposals

The SICB Program Officers are requesting proposals for symposia for the (Jan 3-7) 2010 SICB meeting on the West Coast (either Seattle or Long Beach). As SICB Liaison, I hope to encourage members to organize a symposium for the 2010 meeting. This year TCS sponsored two symposia (“Advances in Decapod Crustacean Phylogenetics”, and “Recent Advances in Crustacean Genomics”) in San Antonio, TX in 2008. It would be great to have another strong presence in 2010. In 2009, Boston, MA, TCS will be sponsoring the symposium entitled “The Biology of the Parasitic Crustacean” organized by Drs. Jeffrey Shields and Christopher Boyko. You have the chance to ask speakers to talk about topics you find interesting, and it is a great way to make new friends and contacts.

You will enjoy working with Harold Heatwole, the Editor of “Integrative and Comparative Biology” (formerly called American Zoologist), in getting your symposium papers published together as a peer-reviewed volume that can be used for reference and seminars.

The SICB has revised the procedure for developing symposia, mainly to insure the involvement of the Divisions and to make the process easier and more straight-forward. The symposia at the 2010 SICB meeting will be broken into three groups: (1) divisional or co-sponsoring society symposia, (2) society-wide symposia, and (3) mini-symposia. Regardless of what type of symposium you are planning, please do not plan for more than 11 speakers or you may be in the awkward position of having to uninvite individuals.

Symposia acceptance can be enhanced with co-sponsorships from Divisions of the SICB. In addition, when the organizers apply for symposia sponsorship, the SICB will waive the registrations fees for the speakers. ‘Information on submitting symposia for the 2009 meeting in Boston is now a link on the home page of the SICB web site: (<http://www.sicb.org/meetings/2009/index.php3>) Deadline for submissions is August 17, 2008.

I am willing to assist any group in developing a proposal. In addition, please contact Chris Boyko ([cboyko@amnh.org](mailto:cboyko@amnh.org)) to coordinate the development of your proposal.

Brian Tsukimura  
SICB Liaison Officer for TCS  
Professor of Physiology, Department of Biology,  
MS#SB73 2555 E. San Ramon Avenue Fresno, CA 93740

Phone: (559) 278-4244 FAX: (559) 278-3963  
Email: [BrianT@CSUFresno.edu](mailto:BrianT@CSUFresno.edu)



## Upcoming Meetings...



### **TCS 2008 Summer Meeting Galveston, Texas June 9-13, 2008**

<http://www.tamug.edu/crustaceans2008/>

TCS is pleased to announce that registration is now open for our Summer Meeting in 2008 to be held from June 9-13 at the Hilton Galveston Island located on the Gulf of Mexico beachfront in Galveston, Texas. Electronic registration and submission of abstracts is available through the conference website at [www.crustaceans2008.info](http://www.crustaceans2008.info)

The Meeting will be hosted by Texas A&M University at Galveston. Galveston offers 32 miles of relaxing beaches, superb restaurants, top resort hotels, marvelous downtown shopping, numerous antique stores, incredible art galleries, fabulous entertainment and one of the largest and well-preserved concentrations of Victorian architecture in the country. Galveston is a small romantic island tucked deep within the heart of south Texas possessing all the charm of a small southern town and just 40 minutes south of Houston, the fourth largest city in the United States. Galveston is served by Houston Hobby Airport, a thirty-minute drive from Galveston, and George Bush International Airport, a 90-minute drive from Galveston. Nearby attractions include NASA's Johnson Space Center, Moody Gardens Rainforest and Aquarium Pyramids, and the just completed Schlitterbahn Galveston Island Waterpark. Galveston Bay, 30 miles long and 17 miles wide, contributes important commercial fisheries for shrimp, crabs and oysters.

Highlights of the conference include open sessions, in addition to special symposia on Symbiosis and Commensalism, Neurobiology, Peracarid Phylogeny and Subterranean Ecology. Guided field trips will include tours of a local salt marshes and a bay cruise on the Seagull II. For further information, see our website at [www.crustaceans2008.info](http://www.crustaceans2008.info) or contact [register@tamug.edu](mailto:register@tamug.edu)

Additional information for those planning on attending the Crustacean Society meeting in Galveston: Texas A&M University has a collection of over 60,000 crustaceans, with emphasis on the Gulf of Mexico and adjacent seas. Deep-sea crustaceans, decapods and barnacles are well represented. The collection is located in College Station, a three-hour drive northwest of Galveston. Anyone wishing to examine a particular group should contact Mary Wicksten. Specimens can be brought to Galveston for your examination. Loans can be arranged.

Interested in diving? The coastal waters off Galveston are too shallow and muddy for diving, but trips to the famous Flower Gardens Banks or oil platforms can be arranged. Trips to the Banks leave Thursday or Friday night at 10 PM and return around 5 PM,

Sunday. Cost is roughly \$500 and includes meals aboard ship. The Banks are a seven-hour cruise offshore and are for experienced divers only! No snorkeling is possible. All diving is weather permitting. The Banks are completely submerged with a minimum depth of 20 m. Water temperatures are around 20-25 degrees Celsius. The coral reefs of the Banks are among the most pristine in American waters and house a wide variety of fishes, corals, crustaceans as well as sea turtles, manta rays and the occasional whale shark. Please contact me as soon as possible if interested. Mary Wicksten, Biology, Texas A&M, College Station 77843-3258; [Wicksten@mail.bio.tamu.edu](mailto:Wicksten@mail.bio.tamu.edu)

### **Larval 2008 Lisbon, Portugal July 6-11, 2008 <http://larval2008.fc.ul.pt>**

The deadline for registration and abstract submission is April 30. The symposium programme was planned to cover a wide range of research areas on larval biology, however six more specific symposia were chosen. They are:

Larval behaviour, dispersal and mortality

(Organised by J. I. González-Gordillo and H. Queiroga  
Invited speakers: Alvaro T. Palma and Alejandro Gallego)

Molecular and geochemical markers for assessing larval dispersal

(Organised by L. Levin and R. C. Vrijenhoek  
Invited speakers: Stephen Swearer and Matt Hare)

Larval feeding Strategies

(Organised by R. Calado and K. Anger  
Plenary talk by R. Calado)

Eggs, embryogenesis and early larval life  
(Organised by B. W. Hansen  
Invited speaker: Richard Emlet)

Ontogenetic strategies in extreme aquatic environments  
(Organised by A. Hilário  
Invited speakers: Anna Metaxas and Sven Thatje)

Larval settlement: cues, behaviour response, and possible mechanism

(Organised by P.-Y. Qian and J. T. Hoeg  
Plenary talks by the session organisers)

For more information, contact Antonina dos Santos at [antonina@ipimar.pt](mailto:antonina@ipimar.pt), [larval2008@ipimar.pt](mailto:larval2008@ipimar.pt) or visit the website.

### **Seventeenth International Association of Astacology (IAA17) Kuopio, Finland August 4-8, 2008**

<http://iz.carnegiemnh.org/crayfish/IAA/>

Registration for the meeting is now open and more information can be obtained on the meeting website (<http://www.iaa17.net/>) or via links from the IAA website (<http://iz.carnegiemnh.org/crayfish/IAA/>).

## Upcoming Meetings...

### 1st International Congress on Invertebrate Morphology Copenhagen, August 17-21, 2008

<http://www.icim-1.dk>



#### Plenary speakers:

- Rick Harrison (Sylva, NC, USA):  
The Golden Age of Morphology and Introduction to  
"International Society for Invertebrate Morphology"  
Gerhard Scholtz (Humboldt Univ., Berlin, Germany):  
Embryology and homology  
Peter Holland (Univ. Oxford, UK):  
Genomes and development  
Mark Martindale (Univ. Hawaii, HI, USA):  
The developmental basis for metazoan body plan evolution

#### Symposia:

- Invertebrates as the stem group of vertebrates. Keynote speaker:  
Thurston Lacalli (Univ. Victoria, BC, Canada)  
Nervous systems. Keynote speaker: Ian Meinertzhagen  
(Dalhousie Univ., Halifax, Canada)  
Invertebrate eyes. Keynote speaker: Dan-E. Nilsson (Univ.  
Lund, Sweden)  
Palaeomorphology. Keynote speaker: Greg Edgecombe (The  
Natural History Museum, London, UK)  
Integrating morphology and molecules in the study of  
invertebrate evolution. Keynote speaker: Gonzalo Giribet  
(Harvard Univ., MA, USA)  
Spiralian development. Keynote speaker: Claus Nielsen (Univ.  
Copenhagen, Denmark)

For more detailed information see our home page at  
[www.snm.ku.dk/english/congresses/ICIM](http://www.snm.ku.dk/english/congresses/ICIM)

Registration and abstract forms are located at [www.ICIM-1.dk](http://www.ICIM-1.dk)  
For further information please contact ICIM-1@ics.dk

We would be very happy to welcome you in Copenhagen  
and we hope that you will present a paper. The abstract deadline is  
1 February 2008

Claus Nielsen (conference host)([cnielsen@snm.ku.dk](mailto:cnielsen@snm.ku.dk)), Peter  
Funch ([peter.funch@biology.au.dk](mailto:peter.funch@biology.au.dk)), Anders Garm ([anders.garm@cob.lu.se](mailto:anders.garm@cob.lu.se)),  
Jens T. Høeg ([jthoeg@bi.ku.dk](mailto:jthoeg@bi.ku.dk)), Reinhardt Møbjerg  
Kristensen ([rmkristensen@snm.ku.dk](mailto:rmkristensen@snm.ku.dk)), Jørgen Olesen ([jolesen@snm.ku.dk](mailto:jolesen@snm.ku.dk)),  
Martin Vinther Sørensen ([mvsorensen@bi.ku.dk](mailto:mvsorensen@bi.ku.dk)),  
Andreas Wanninger ([awanninger@bi.ku.dk](mailto:awanninger@bi.ku.dk)), Katrine Worsaae  
([kworsaae@bi.ku.dk](mailto:kworsaae@bi.ku.dk))

### IX CCDM Colloquium Crustacea Decapoda Mediterranea Torino, Italy September 2-6, 2008

Theme: Alien Decapods - Marine and Freshwater  
Co-chairs: Bella Galil and Francesca Gherardi

We invite abstracts for presentation in the theme Alien Decapods -  
Marine and Freshwater covering the full range of subject including  
the identity, distribution, and impact of marine and freshwater alien  
species, the dynamics of their invasion, and the possible means of  
prevention, control and mitigation.

Manuscripts of the presentations (oral and poster) will be  
published as the CCDM 2008 Proceedings in the monograph series  
"Atti di Convegni" edited by the Regional Museum of Natural  
Sciences of Torino. Standard international peer-review evaluation  
will be followed. Publication is anticipated by the end of 2009.

Abstracts should be presented on a single A4 page  
with 2 cm margins. Abstracts shall be submitted as Microsoft®  
Word files (\*.doc), the filename being surname\_abstract.doc (e.g.  
Smith\_abstract.doc). The surname must be the first author's. In  
case an author is first author in different abstracts, the surname  
must be followed by consecutive numbers (e.g. Smith1\_abstract.  
doc; Smith2\_abstract.doc; etc.).

The text should consist of: author's name (surname in  
bold), affiliation, mailing and email addresses, The name of the  
presenter must be underlined; presentation title (in bold), followed  
by the text (200-400 words). The Abstract submission should be  
left justified throughout, written in English, Times New Roman 12  
pt, single-spaced, with italics reserved for species names only.  
Please indicate clearly if an oral or a poster presentation are  
requested, the relevant session theme (with ref. to the list included in  
the Temporary Program), and, whether a student is the presenter.

Abstracts MUST be submitted by e-mail ([9ccdm.dba@unito.it](mailto:9ccdm.dba@unito.it))  
or by fax (+39 011 2364539). The receipt of the abstract  
will be acknowledged as soon as possible. The authors are kindly  
requested to contact the secretariat ([9ccdm.dba@unito.it](mailto:9ccdm.dba@unito.it)) in case  
they have no receipt notice of their abstract within 7 days after  
sending.

Authors are limited to two abstracts submissions as lead  
author whether for oral or poster presentation.

Deadline for submission of abstracts: 15 May, 2008

Notification of authors: 15 June, 2008

Deadline for submission of manuscripts for inclusion in  
the Proceedings: 31 October, 2008

Manuscripts will follow the standard international peer-  
review evaluation.

Oral presentations : 15 minutes long, including discussion  
(10 minutes presentation, 5 minutes discussion). Visual aids will  
be available: directly from PC, in form of Microsoft® Power Point  
files (\*.ppt); in which case, the presentations should be placed in a  
CD or a pen drive; overhead projector; VHS video recordings.

Posters : Posters are limited to H 140 cm x W 90 cm. The poster  
session will take place on Thursday afternoon September 4, 2008.



## Upcoming Meetings...

Student awards: Awards will be presented to the best oral presentation and the best poster presented by students. In order to be eligible for the competition, the student must be the sole or principal author, and the speaker at the Colloquium. A few grants (lodging at the Lingotto Campus) will also be made available. Requests of students applying for said grants will be considered on the basis of scientific merit, originality, and quality of the abstract, as well as country of origin.

Conference fees: 250.00 € (early registration, payable before 30 June 2008), 280 € (after 30 June 2008). Students 150.00 € (early registration, payable before 30 June 2008), 180 € (after 30 June 2008).

Students are requested to enclose in the registration form a declaration by their Supervisor or University stating their status. Cancellations and refunds. cancellations received before July 31, 2008 will be refunded of 50% of the congress fee; refunds will be made after the Colloquium is held.

poster session will be held, which will be precluded by a public lecture. On Friday there will be an excursion to the newly built Ozeaneum in Stralsund, followed by a visit to a site near Stralsund, where thousands of Eurasian cranes rest on their migration South.

We hope the program will tempt you to come to the historic city of Rostock to hear about and discuss with us recent Advances in Crustacean Phylogenetics.

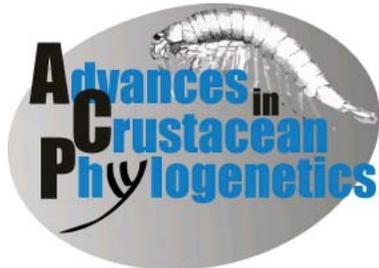
Organizers and Venue Stefan Richter, Christian Wirkner, Ole Sten Moller Universität Rostock, Allgemeine & Spezielle Zoologie Universitätsplatz 2, D-18055 Rostock, Germany Phone +49 (0)381 498-6261 FAX +49 (0)381 498-6262

Please visit our home page for further information [http://www.biologie.uni-rostock.de/zoologie/acp\\_home.htm](http://www.biologie.uni-rostock.de/zoologie/acp_home.htm)

### Project IMPASSE

<http://www.hull.ac.uk/hifi/IMPASSE/>

The project IMPASSE "Environmental impacts of alien species in aquaculture" was funded within the EU's Sixth Framework Programme for Research and Technological Development in order to address the EC's need for a thorough evaluation of the potential impacts of non-indigenous species in aquaculture. Its overall goal is to develop guidelines for environmentally sound practices for the introductions and translocations in aquaculture, guidelines on quarantine procedures and risk assessment protocols, and procedures for assessing the potential impacts of invasive alien species in aquaculture and related activities.



### The First International Symposium on Advances in Crustacean Phylogenetics Rostock, Germany October 7-11, 2008

Dear Colleagues, We would like to invite you to the first international symposium on Advances in Crustacean Phylogenetics. The symposium will take place from 7 - 11 October 2008 in Rostock. We are pleased to announce that 25 high profile international speakers have affirmed their attendance. They will provide us with a broad overview of the following topics:

- (1) The place of crustaceans within arthropods
- (2) The phylogeny of single sub-taxa
- (3) The contribution of certain character complexes to the phylogeny of Crustacea.

These talks are scheduled to take 30 mins, plus 10 mins discussion per talk, spread over the four days.

In addition, the conference is open for posters on all aspects of crustacean phylogeny.

The Crustacean Society will award the best student posters!

Alongside the stimulating scientific program, there will be space and time for individual discussions and social events. On Wednesday evening there will be a river cruise to the Baltic Sea, including an excellent fish buffet. On Thursday afternoon a general

### Management of Alien Species for Sustainable Development of Aquaculture and Fisheries (MALIAF) University of Florence (Italy) 5 and 7 November 5-7 2008

Among the actions required to disseminate the knowledge accumulated in the course of the 2-year project, IMPASSE foresaw the organization of the final international conference "Management of Alien Species for Sustainable Development of Aquaculture and Fisheries" (MALIAF) to be hosted by the University of Florence (Italy) between 5 and 7 November 2008.

Its main objective is to present IMPASSE's results to the scientific community, administrators, and stakeholders, but also to extend the discussion on the strategies needed to develop sustainable and profitable aquaculture and fisheries across the world.

The conference will be followed by the production of a proceedings volume gathering the main talks and contributions given.



## Upcoming Meetings...

MALIAF will provide a unique opportunity for many leading scientists engaged in research on invasive alien species to meet and share their knowledge with practitioners, stakeholders, and regulatory agencies. This will have a positive impact on the ongoing process, at the EU level, of developing regulations governing the use of alien species in human activities, including aquaculture. Specifically, MALIAF will contribute to strengthen cooperation at international, regional, transboundary, and local levels and to develop integrated actions to standardise guidelines or protocols for species movement, risk assessment, and quarantining. By suggesting strategies for an effective management of aquatic ecosystems and for a mitigation of the risks posed to organisms, communities, and ecosystems by alien invasive species, MALIAF will pinpoint means and opportunities that might ultimately improve the quality of life, assuring both human well-being and economic development of the society in general.

### Contacts

**IMPASSE Project coordinator:** Prof. Ian Cowx, Hull International Fisheries Institute,

University of Hull, Hull, East Yorkshire, HU6 7RX, UK

Tel: +44 (0)1482 466421

E-mail: [i.g.cowx@hull.ac.uk](mailto:i.g.cowx@hull.ac.uk)

Website: <http://www.hull.ac.uk/hifi/IMPASSE/>

**MALIAF Organiser:** Dr. Francesca Gherardi, Department of Animal Biology and Genetics, University of Florence, Florence, Italy

E-mail: [francesca.gherardi@unifi.it](mailto:francesca.gherardi@unifi.it)

The IMPASSE Consortium acknowledges the financial support of the European Commission, within the Scientific Support of Policies of the 6th Framework Programme (contract no: 044142).

### **Brazilian Crustacean Society Meeting Gramado, Rio Grande do Sul State, Brazil, November 10-13, 2008**

On behalf of the Sociedade Brasileira de Carcinologia it is a great pleasure for me to invite you to participate in our V CONGRESSO BRASILEIRO SOBRE CRUSTÁCEOS (5<sup>th</sup> Brazilian Crustaceans Congress), which will be held in Gramado (Hotel Serra Azul), Rio Grande do Sul State, Brazil, from 10<sup>th</sup> to 13<sup>th</sup> November 2008.

The scientific program at the Congress will cover all of the major disciplines of Carcinology, including Morphology, Physiology, Ecology, Biology, Systematics, Taxonomy and Farming and Growing Crustaceans. In addition we are highlighting special themes that will run through each day anchored by a Plenary Lecture by a world expert in that field, and featuring a Symposium and Workshop on that theme. In addition, we welcome your current work as a submitted paper or poster. Sessions of submitted papers - will run daily during the Congress.

Gramado is undoubtedly one of the most beautiful cities in the South Brazilian highland. The warm hospitality of the people, excellent food and wine and vivid cultural life attract thousands of visitors every year. Its pleasant weather also makes Gramado one of the most popular meeting venues in Brazil.

I hope that the mixture between the rich and challenging scientific atmosphere of the Sociedade Brasileira de Carcinologia, and the never ending attraction of the city and the nearby landscape of Gramado will convince everyone to attend this Congress. The Organizing Committee and I are certain that you will find the meeting both enriching and enjoyable, and look forward to seeing you in Gramado in November 2008.

Dr. Ludwig Buckup

Federal University of Porto Alegre, RS, Brazil.

Email: [buckup@ufpr.br](mailto:buckup@ufpr.br)

### **The Crustacean Society Summer Meeting in Japan and the 47th Annual Meeting of the Carcinological Society of Japan September 20-23, 2009**

#### **Tokyo University of Marine Science and Technology, Shinagawa, Tokyo**

<http://www.soc.nii.ac.jp/csj4/TCSFirstPage1.html>

#### **Call for plans of special symposia**

The meeting consists in the morning of Plenary Symposia, and in the afternoon of Special Symposia and a General Session for contributed papers. We welcome proposals for organizing the afternoon special symposia in any subject of crustacean biology. Your proposal should include the title of the symposium, names, institutions and departments of all speakers, and e-mail address of the organizer(s). Send your proposal to the Secretary General, Organizing Committee.

#### **Call for papers**

Contributed papers for the general session are also welcomed for any subject of crustacean biology. Registration will open in September 2008.

Contact: Proposal for plans of special symposia as well as any questions and inquiries about the meeting should be directed to Akira Asakura, Secretary General, The Crustacean Society Summer Meeting and the 47th Annual Meeting of the Carcinological Society of Japan

E-mail: [asakura@chiba-muse.or.jp](mailto:asakura@chiba-muse.or.jp)

Senior Researcher, Crustacea, Zoology Department

Natural History Museum and Institute, Chiba

955-2, Aoba-cho, Chuo-ku, Chiba, 260-8682 JAPAN

Tel: +81-43-265-3274 Fax: +81-43-266-2481

continued...

## Upcoming Meetings...

Organizing Committee: Keiji Baba (Chairman), Professor Emeritus, Kumamoto University. Akira Asakura (Secretary General), Natural History Museum and Institute, Chiba. Katsuyuki Hamasaki, Tokyo University of Marine Science and Technology, Tokyo. Keiji Wada, Nara Women's University. Michio Imafuku, Kyoto University. Kooichi Konishi, National Research Institute of Aquaculture, Fisheries Research Agency. Seiichi Watanabe, Tokyo University of Marine Science and Technology, Tokyo Carcinological Society of Japan.

### 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: ([mary\\_belk@sbcglobal.net](mailto:mary_belk@sbcglobal.net))

## Items of interest...

### The California Academy of Sciences Invertebrate Zoology collections are on the move!

The IZ research collections at CAS are moving from the temporary facility in downtown San Francisco where they have been kept for the last four years to a new building in Golden Gate Park. The transfer of millions of dried and liquid preserved specimens across town requires careful planning, packing and organizing. Although we've just recently begun the physical move of specimens, planning and preparation has been on going for many months. The curatorial staff is working with trained collection handlers, students and docents as well as professional movers to safely bring our research materials to their new home.

The new building, designed by renowned architect Renzo Piano, will offer more space for the collections, new laboratory facilities for specimen prep, SEM and molecular work.

Although the Invertebrate Zoology collections will not be accessible during the packing and move period through June, we anticipate that the department will be "open for business" in early July for research visitors and loans.

The exhibits area will open to the public on 27 September 2008. Prior to that date, research visitors will have access to the research collections and lab, but will not be allowed on the public floor.

For specific information regarding collection access, please contact Bob Van Syoc ([bvansyoc@calacademy.org](mailto:bvansyoc@calacademy.org)), IZ Collection Manager at CAS.

Visit <http://www.calacademy.org/academy/building/> to learn more about the new building design.

### Chronicle of a Change Foretold: a new name for the most famous South American crab

Paraphrasing the title of a novel from by the Nobel laureate Gabriel García Márquez (Chronicle of a Death Foretold), the name of the very well known Southwestern Atlantic estuarine crab *Chasmagnathus granulatus* finally changed. In December 2006, a thorough paper by Sakai, Türkay & Yang appeared in the *Abhandlungen der Senckenbergischen Naturforschenden Gesellschaft*. These authors examined all the species included in two genera (*Helice* and *Chasmagnathus*, erected by De Haan in 1835 on the basis of Japanese species) worldwide, "in order to get meaningful natural groupings on the basis of phylogenetically important characters". As one of the consequences of the research, they proposed that the South American crab should be renamed as *Neohelice granulata*. This change was not unexpected, on the contrary, it has circulated as a rumor among "chasmagnathologists" during the last few decades.

## Items of interest...

The first scientific report of *N. granulata* was probably a note by Alcide d'Orbigny in the handwritten catalogue of his collections, where he mentioned an "Ocyode à grosses pattes" (ocyode with big legs). On the left border of this note, there is a list of localities where this crab was found: Montevideo, "Plata", Bahía Blanca, Bahía San Blas and Rio Negro. These names remained unchanged, except the second (that should correspond to Bahía Samborombón, in the Argentine coasts of the Rio de la Plata). On the other hand, D'Orbigny described the coasts of Bahía Blanca estuary. This is one of the largest intertidal mudflats in the Southwestern Atlantic and burrows of this semiterrestrial crab occupy an extremely large proportion of its area. It is likely that the Bahía Blanca estuary harbors the largest population of this species.

*N. granulata* was formally described, illustrated and named by Dana (1851, 1852) on the basis of specimens collected on "marshes of Lake Peteninga, near Rio Janeiro, Brazil" by the United States Exploring Expedition during the years 1838-1842. Milne Edwards (1853) reproduced this description in the "Mémoire sur la famille des Ocyodiens". The type specimen was lost. Rathbun (1918) gave a detailed redescription of this species on the basis of specimens from Brazil and Uruguay, under the name of *C. granulata*. In her monographic study of the grapsoid crabs of America, she also stated that the range of this species reached "San Matías Bay, Patagonia". In spite of the disagreement in gender between the generic and the specific names introduced by Rathbun, the species remained mentioned as *C. granulata* during most of the XX century. However, some authors have used *C. granulatus*, mainly during the last few years.

The present distribution of this burrowing and semi terrestrial crab ranges from Marica Lagoon (Rio de Janeiro, Brazil) to Riacho San José (Chubut, Argentina). This species inhabits vegetated and non-vegetated areas in the intertidal zones of many estuaries, coastal lagoons and salt marshes along the coasts of Brazil, Uruguay and Argentina. It has been studied from many different points of view (ecological, physiological, ethological, toxicological) and has even been selected as a model for the research of learning and memory. For example, the paper from Sakai et al. (2006) included 69 papers published from 1990 to 2004 dealing with *C. granulatus/C. granulata*, averaging 4.6 papers per year. On the other hand, a search of papers in the database Scopus (period 1988-2007) showed that *N. granulata* is the third most studied crab, after *Callinectes sapidus* and *Carcinus maenas*.

If there were a Hollywood for crabs (a Crablywood..?), *Chasmagnathus (Neohelice) granulatus (granulata)* would surely be a Latin Star.

Dr. Eduardo D. Spivak  
Departamento de Biología  
Facultad de Ciencias Exactas y Naturales Universidad de Mar del Plata  
Casilla de Correo 1245 7600 Mar del Plata, Argentina  
espivak@mdp.edu.ar

## News from ALCARCINUS

The ALCARCINUS (Association of Latin America Carcinologists) officially started its membership January 1, 2008. During the TCS Summer Meeting in Coquimbo, Chile, last details for officially starting ALCARCINUS were set. An interim board has been designated with active period of 6 or 12 month. Ballot will be held in June and in December this year to confirm or replace board members according to status. The elected board members will then be in function for a 2-years period. The ALCA-List, in use for several years now, will keep working as an informal link between all persons with interest in crustaceans in the region (328 members to date).

Aside from the fantastic TCS Meeting that we all enjoyed in Coquimbo-La Serena last October, ALCARCINUS held its third meeting since 2003 (in Viña del Mar, Chile) with the largest attendance to date (39 colleagues from nine countries).

In addition to the Board Members, several delegates have now been designated in countries where there are a significant number of carcinologists but no Board representatives. Delegates will essentially assist in recruiting members and distributing literature on Crustacea that is made available through the association to libraries in the region.

### BOARD MEMBERS

President: Michel E Hendrickx (Mexico)  
Vice President: Fernando Mantelatto (Brasil)  
Treasurer: Ingo Wehrtmann (Costa Rica)  
Secretary: Laura Lopez (Argentina)  
Vocal 1: Marcelo Scelzo (Argentina)  
Vocal 2: Juan Bolaños (Venezuela)  
Vocal 3: Jorge Lopez (El Salvador)  
Vocal 4: Matilde Cornejo (Ecuador)  
Vocal 5: Luis Miguel Pardo (Chile)

### DELEGATES

Nestor Campos (Colombia)  
Ana Reboledo (Uruguay)  
Albertina Kameya (Peru)  
Humberto A. Garcés B. (Panama)  
Manuel Ortiz Touzet (Cuba)

ALCARCINUS will work to consolidate relationships among carcinologists in Latin America and, at the same time, support close contacts with The Crustacean Society.

Michel E. Hendrickx  
TCS Latin American Governor



## 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 of Crustacea. For suggestions, contact [jeff@vims.edu](mailto: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.



## 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](http://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](mailto:rwetzer@nhm.org)