



The Ecdysiast

Newsletter of The Crustacean Society

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Message from the President...

Dear TCS members,

Our last meeting in Galveston, June 9-13, was attended by about 60 registered participants, a good number of which were students and members from outside the USA. For a number of reasons, attendance was relatively low; however, the meeting still provided a great opportunity to network with colleagues, and to listen to some fascinating papers. We had another successful reprint/book auction, and now have a system in place to repeat this popular fund-raiser event. Tom Illife, Mary Wicksten, and their local helpers, are to be commended for their hard work and hospitality. A report on our Business meeting will appear in the next issue of JCB, and I encourage you all to read it as there are some important news about the state of TCS, the promising future of JCB, and other tidbits.

Many of you might wonder if the Hilton Hotel and nearby area where we met in Galveston suffered any damage from the hurricane. TCS field reporters have informed me that much of the TV coverage by the media was shot next door from the Hotel San Luis. There was debris cast up on Seawall Boulevard in front of the hotel, but only minor damage to the building. However, the sandy beach across the street is gone, and now the Gulf extends right up to the seawall. The Fort Crockett campus of TAMU-Galveston, behind the Hotel San Luis, is fine. Other beaches now are clay banks or have moved 40 m out in the Gulf. Nobody is eager to have a look at the marshes due to alligators in the grass. The Bolivar Peninsula, and from the western end of Galveston Island to Freeport were totally trashed—heavy beach erosion, unusable roads, smashed houses, dead animals, etc. Power was still out to that entire area as of the date of this writing (9/30/2008). Tom Illiffe, who lives on the island, had a foot of flood water in his house, which sat unattended for 10 days until the mayor let citizens return. He lost most of his furniture and appliances, and had to replace moldy carpets and sheetrock walls from the first floor. The University relocated all of the students and classes to the College Station campus for the rest of the Fall semester. On behalf of TCS, I wish continued progress in the recovery efforts of our friends in Galveston.

We have a couple of busy years ahead with important meetings jointly with SICB in Boston, USA (January 3-7, 2009,) Shinagawa Campus, Tokyo University of Marine Science and Technology, Japan (September 20-24, 2009) and the International Crustacean Congress in Qingdao, China (2010). Please check the TCS website (<http://www.vims.edu/tcs/>) for details and updates on these meetings. I hope to see many of you there. Also, please read the report in this issue (Page 6) by our SICB liaison Brian Tsukimura on the SICB meetings in Boston next January, where we are sponsoring the symposium: “The Biology of the Parasitic Crustacea” organized by Chris Boyko and Jeff Shields. TCS will have its Winter Business meeting at Boston, and will sponsor a social as well. The next SICB meetings will be in Seattle 2010, and if you are unable to attend Tokyo and China meetings, please think about symposia for Seattle. And while we are on the subject of meetings, we need proposals to hosts the TCS 2011 mid-year meetings, ideally somewhere in the USA after 2 years around the world. If you wish to host a meeting, or know who might, please get in touch with me or any of the TCS Board members.

continued...



As all of you know, TCS has become a solid, respected society of international stature that offers many benefits to its members. The impact factor of our Journal JCB continues to rise, and is a result of incredible hard work over the years by authors and our editorial staff, now under the able leadership of Fred Schram. Despite our success, and our solid finances, it is of concern that our membership continues to decrease. The latest data on membership provided to me last June indicate that we stand at 741 members (187 of these are institutions). Since 2006 we have experienced a 15.2% drop in the number of members. Fortunately our relationship with BioOne is producing enough income to offset the losses from a decrease in member fees. However, it is the members and network that 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. There are many strategies for recruiting, but one that is infallible is the personal approach to lobby our own colleagues who may not be members, or to talk to students so they join, participate in TCS events, and thus become involved. It is interesting to note that while TCS has 554 individual members, the CRUST-L list has about 850 subscribers. Can we close that gap to bring more CRUST-Lers into the TCS membership?

We talk and boast a lot about JCB but this newsletter is also well done and important in our communications. Rachael King has done an outstanding job over the years in keeping the "E" spiffy, interesting, and well edited. I wish to extend a presidential thanks for her impeccable work and dedication. Regrettably, Rachael is soon moving on to greener pastures in the land down under, and she has requested a replacement as editor. We will need to scour the earth and dredge the oceans for a suitable candidate, but if you are interested or know somebody who is, please let the TCS Board know.

Finally, I cannot resist the temptation of placing a plug for our Museum. On September 27, 2008, the Smithsonian Institution's National Museum of Natural History opened a brand new hall dedicated to the oceans, called the Sant Ocean Hall. This is a spectacular exhibit with quite a few crustaceans, and which I invite you to visit personally when you travel to Washington D.C., or through the web site: http://ocean.si.edu/ocean_hall/

Una vez más, abrazos a todos, and hope that you will all get even more busy with research and manuscripts on crustaceans for JCB and the many meetings ahead,

Rafael Lemaitre
President, The Crustacean Society



TCS Board Elections, 2008

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 two years, but other officers and governors may serve multiple terms.

Five offices are now open for the period 2009-2010: **North American Governor, European Governor, Indo-Pacific Governor, Society Treasurer, Society Secretary.**

This year, voting for our upcoming election will be done electronically at www.tcs.allenmm.com.

An announcement will be sent through CRUST-SOC to remind people to vote. Ballots can be cast anytime after November 1, 2008. Brief biographies of the nominee or nominees for each office will be given on the website.

Voting will close on 28 December 2008.





The Crustacean Society Board Members, 2008

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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:

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Recent Meetings...

TCS Summer Meeting, Galveston

The summer 2008 meeting was held on June 9-13 at the Hilton Hotel across from the seawall at Galveston, Texas. During the meeting, we had warm and breezy weather with an occasional shower. We had a modest attendance of 59 participants from 11 countries. Keynote speaker was George "Buz" Wilson from the Australian Museum in Sydney, who spoke on a new analysis of isopod phylogeny. His and other talks on phylogeny and systematics generated a lot of valuable discussion among the participants. On Wednesday, a highlight was the talk on symbiotic pontonine shrimps from Vietnam, presented by our special guest speaker Dr. Ivan Marin of the A.N. Severtzov Institute of Ecology and Evolution in Moscow, Russia. There were presentations by Joe Goy on symbiosis in stenopodids; Mary Wicksten, on decorator crabs; and Marjorie Reaka on diversity and endemism in Indo-West Pacific stomatopods. Talks on Thursday morning turned to cave and subterranean species from Mexico and Texas, accompanied by films showing some of Tom Iliffe's study areas. There were numerous papers and posters on crustacean behavior and systematics, behavior and general ecology. Awards for the best student papers went to Tyler Olivier, University of Louisiana at Lafayette, for his co-authored talk "Juvenile swimming abilities in the amphidromous river shrimp *Macrobrachium ohione*: implications for postlarval migration to the upper Mississippi-Ohio River system"; and Carlos Santamaria, Texas A&M University at College Station, for his co-authored poster "Molecular systematics of bythograeid crabs" (See next column for more details).

Participants enjoyed a shrimp boil at the Ashton Villa, one of the historic old houses in Galveston, and a seafood banquet consisting of samples of shrimp, crab and fish prepared in various delicious ways at Gaido's. This restaurant is famous for its good food and a huge statue of a blue crab (*Callinectes sapidus*). After the banquet, everyone was ready to sit back and listen to David Thistle's talk on deep-sea harpacticoids. Visitors who stayed for another day checked the marsh at Sportsman's Road for *Uca*, other crabs, shrimp and isopods as well as a variety of coastal birds. Our most enthusiastic fanciers of *Uca* organized their own short trips to observe and collect the fiddler crabs at several locations in the area.

Submitted by Mary Wicksten, Department of Biology, Texas A&M University, College Station, Texas.



Galveston banquet participants.

TCS Galveston, Best Student Awards

The Crustacean Society (TCS) is pleased to announce the winners of the Best Student Paper and Poster Competition held during the annual mid-year meeting of the Society, June 9-13, 2008, in Galveston, Texas. There were 7 student competitors, which is a large number given the total number of meeting attendants. The Best Student Oral Presentation Award was presented to **Tyler Olivier** (University of Louisiana, Lafayette, USA) for his talk entitled, "Juvenile swimming abilities in the amphidromous river shrimp *Macrobrachium ohione*: implications for postlarval migration to the upper Mississippi-Ohio river system" (with co-authors B. Moone & R. Bauer). The Best Student Poster Award was presented to **Carlos Santamaria** (Texas A&M University, College Station, TX, USA) for his poster entitled, "Molecular systematics of bythograeid crabs" (with co-authors L.A. Hurtado, S. Johnson & R.C. Vrijenhoek). 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

Best Student Oral Presentation:

Juvenile swimming abilities in the amphidromous river shrimp *Macrobrachium ohione*: implications for postlarval migration to the upper Mississippi-Ohio river system.

Olivier, T., B. Moon & R. Bauer (University of Louisiana, Lafayette, LA, USA)
tjo1457@louisiana.edu

The river shrimp *Macrobrachium ohione* is amphidromous, i.e., larval development takes place in coastal estuaries after which postlarvae (juveniles) make a mass migration upriver into the adult freshwater habitat. Swimming parameters (speed, duration) are being studied in migrating juveniles in the Atchafalaya River, a tributary of the Mississippi River in Louisiana. Such measures will help address questions about the timing and range of juvenile migrations. Methods and preliminary results are reported here. Juveniles swimming near the surface along the shore were recorded at night using camcorders and infrared (IR) illumination from battery-powered IR lamps. The period during the night when juveniles leave the bottom and swim upstream was measured with still images taken every 5 min throughout the night and by 2 sec video clips (interval video recording) recorded on separate camcorders at 5 min (09/04/07) or 10 min (08/18/08) intervals. For the two nights of observation, numbers of shrimps in the stills or clips were recorded and summed for every 30 min period. The interval video recording was the best method for quantifying the number of swimming juveniles because juveniles moving upstream can be distinguished from surface debris floating downstream. For both nights, the peak period of swimming (greatest number of individuals) was during the first few hours of darkness, with another minor peak near sunrise. On average, the shrimps spent approximately 2.5 h swimming per

Recent Meetings...

night. However, we have observed abundant swimming juveniles on other occasions in the early morning hours so these results are considered preliminary, with extended observations planned for this summer. Using Peak Motus motion analysis software, swimming speeds were measured over 1-2 sec periods sampled every 30 min during two nights in the summer of 2007 as well as from videos recorded in two previous years. Ground speeds of the swimming shrimp varied from 0.6-1.4 km h⁻¹ measured at river velocities of 0.5-1.3 km h⁻¹. A preliminary model based on hatching period, larval development, and juvenile swimming parameters was proposed to predict arrival times of migrating juveniles at a riverine location 150 km from the Atchafalaya Delta, the source of the juvenile migrators, and compared with observed arrival times in 2005-07. These data can also be used to estimate the time required for long distance migrations up the Mississippi River System (MRS). *M. ohione* populations were once abundant as far north as St. Louis, Missouri and into the lower Ohio River, but now are abundant only in the lower Mississippi and Atchafalaya Rivers in Louisiana. Various hypotheses are compared to explain the previously large populations of this amphidromous shrimp far upstream: (a) a long distance amphidromous migration to and from the Gulf of Mexico; (b) adaptation of northern populations to freshwater (abbreviated development); and (c) inland "larval" nurseries created by the formerly numerous saline springs in the upper Mississippi and lower Ohio Rivers. Support from NOAA LA Sea Grant R/SA-04 is acknowledged.

Best Student Poster Award:

Molecular systematics of bythograeid crabs

Carlos Santamaria¹, Luis A. Hurtado¹, Shannon Johnson² and Robert C. Vrijenhoek² (¹Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX & ²Monterey Bay Aquarium Research Institute, Moss Landing, CA)
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Members of the family Bythograeidae Williams 1980 are endemic to hydrothermal vent environments worldwide. The family is represented by four monotypic genera (*Segonzacia*, *Cyanagraea*, *Allograea*, and *Gandalfus*) and two polytypic genera (*Bythograea* and *Austinograea*). *Segonzacia mesatlantica* occurs along the mid-Atlantic ridge, *Cyanagraea praedator* along the East Pacific rise, *Allograea tomentosa* along the East Pacific rise south of the Easter microplate, and *Gandalfus puia* along the Kermadec Ridge in New Zealand. The polytypic genus *Bythograea* is restricted to the eastern Pacific and comprised of six named species: three of which occur along the East Pacific Rise (*B. microps*, *B. laubieri*, and *B. vrijenhoeki*); two occur along the Galapagos Rift (*B. intermedia* and *B. galapagensis*; although they may represent a single species); and one occurs on both the East Pacific Rise and Galapagos Rift (*B. thermydron*). The polytypic genus *Austinograea* is restricted to the Indo-Pacific region, and represented by four named species: *A. williamsi*, from the western Pacific; *A. yunohana* from the Philippine Sea Plate; *A. alayseae*, from the southwestern Pacific; and *A. rodriguezensis*, from the western Indian Ocean. Despite their abundance at hydrothermal vents, phylogenetic relationships among bythograeids, their affinities to other brachyurans, and the

evolutionary age of this group remain unknown. Consequently, we sequenced a suite of mitochondrial and nuclear genes from most of the named bythograeid species representing all the known genera. DNA sequences were analyzed with Bayesian and maximum likelihood methods to reconstruct phylogenetic relationships, using as outgroups many brachyuran taxa. Our results suggest that majid or xanthid crabs may be the closest living relatives of bythograeids. Phylogenetic relationships within the Bythograeidae revealed two main well-supported clades. One clade is composed of species in the genus *Bythograea*, whereas the second clade is composed by the remaining genera. The *Bythograea* lineages were divided into two pairs of closely related sister-species: *B. vrijenhoeki* – *B. laubieri* and *B. thermydron* – *B. galapagensis*. Specimens of *B. microps* and *B. intermedia* (which may correspond to *B. galapagensis*) were not available for molecular analyses. In contrast, phylogenetic relationships among members of the second main well-supported clade were not as well resolved. The results, however, clearly suggest that *Gandalfus puia* is a member of the *Austinograea* clade, questioning, therefore, the validity of this genus name. Nonetheless, the relationships among *Segonzacia*, *Cyanagraea*, *Allograea*, and *Austinograea* (+ *Gandalfus*), in the second main clade, were uncertain. Additional genes are needed to better resolve relationships within this clade. In addition, one specimen identified morphologically as *A. affinity williamsi*, is genetically distinct from *A. williamsi*, from which has an allopatric distribution. Finally, molecular clock analyses are being conducted to explore the evolutionary age of bythograeids.

IAA17, Finland

The International Association of Astacology recently held its 17th biennial international symposium in Kuopio, Finland back in early August. The society is now accepting crayfish-related manuscripts for publication in its journal, *Freshwater Crayfish*. Publication in *Freshwater Crayfish* is open to any author, as long as the manuscript is about freshwater crayfish. The journal publishes peer-reviewed short (3-7 pages) and medium-length (8-15 pages) original scientific contributions about crayfish from various scientific disciplines including: aquaculture, behavior, biology, conservation, diseases, ecology, genetics and physiology, among others. See <http://iz.carnegiemnh.org/crayfish/IAA/fcindex.htm> for additional information on the journal and access to previous article abstracts.

Manuscripts must be submitted electronically through the societies' online manuscript submission website located at <http://iz.carnegiemnh.org/FCeditor/>. Detailed instructions and stylistic recommendations are available to authors via direct download from the website. The deadline for submitting manuscripts will be Sunday, November 30th. If you have any questions about the appropriateness of a particular manuscript for the journal, please contact the Managing Editor, Japo Jussila (Japo.Jussila@uku.fi) or myself.

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Upcoming Meetings...



Society for Integrative and Comparative Biology (SICB) 2009 Boston, Massachusetts

We hope to see everyone in Boston, MA for the SICB meeting January 3-7, 2009. Early Registration deadline is November 30, 2008.

<http://www.sicb.org/meetings/2009/index.php3>

The meeting will be held in the Westin Boston Waterfront Hotel. TCS will have a booth in the exhibition area (#20), please come by and visit with Jeff Shields, Akira Asakura, Mary Belk, Chris Boyko and me. There are many crustacean papers at the SICB in Boston and TCS is sponsoring a symposium "The Biology of the Parasitic Crustacea" organized by our own Chris Boyko and Jeff Shields. This symposium will held on Sunday, January 4, with a Complementary Session to the symposium on Monday morning.

The TCS Winter Business Meeting will be held on Monday, evening, January 5, at 5:15 PM. TCS will be sponsoring a social with the Divisions of Invertebrate Zoology, Systematics and Evolutionary Biology, and Ecology and Evolution, , January 5 at 6:30 – 8:30 PM. Please see the SICB program to confirm the rooms.

We have no symposia for the 2010 meeting in Seattle (see page 7). I encourage discussions for symposia at SICB, particularly for those who are unable to attend the TCS Summer meeting in Shinagawa, Japan in 2009 and the International Crustacean Congress in Qingdao, China. If you have ideas, please contact Chris Boyko or myself to assist you in developing the proposal that will be due August 2009.

Submitted by Brian Tsukimura
SICB Liaison Officer

The Crustacean Society Summer Meeting in Tokyo, Japan. September 20-24, 2009

Tokyo University of Marine Science and Technology, Shinagawa, Tokyo

REGISTRATION NOW OPEN !

Dear Colleagues,

It will be our great pleasure to welcome you to Tokyo, Japan, for The Crustacean Society Summer Meeting, jointly held with the 47th Annual Meeting of the Carcinological Society of Japan, 20-24 September 2009. This is the first TCS Summer Meeting held in Asia and a happy marriage of the two crustacean societies. A three-day period has been scheduled for the meeting, and we invite contributions in all areas of crustacean biology, including systematics, evolution, ecology, behavior, development, physiology, symbiosis, genetics, biogeography, fossils, fisheries and culture. The Organizing Committee will make every effort to provide excellent facilities for a comfortable and enjoyable meeting. Tokyo, the capital of Japan, offers you many varied attractions and the charms of a big city, including modern city life, ancient temples, shrines, and gardens, museums and art galleries, and diverse cultural events. I am very much looking forward to meeting many old friends and making new ones in Japan, and to learning what is new in crustacean science.

Keiji Baba
President, Carcinological Society of Japan

Electronic registration including submission of abstracts for general sessions open now at the meeting web-site<<http://www.soc.nii.ac.jp/cs4/TCSFirstPage1.html>> (this site is searchable by Yahoo or Google with three keywords "TCS", "Tokyo" and "2009", or you can go to this site from TCS Official web-site. Please visit this site for general information and check back often, as it will be updated regularly. For general sessions, we invite contributions in all areas of crustacean biology.

Deadline of abstract submission and early registration: 30 April 2009.

Keynote addresses (tentative title):

William Newman (Scripps Institution of Oceanography):
Molecular genetics and the evolution of invertebrates, especially the arthropods and barnacles

Christopher Tudge (American University): Phylogeny of Anomura

Upcoming Meetings...

TCS Japan 2009...

Symposia and organizers:

1. Life history migrations of freshwater shrimps: ecological and adaptive significance: Raymond T. Bauer (Univ. Louisiana) & Hiroshi Suzuki (Kagoshima Univ.)
2. Integrative biology: crustaceans as model systems: Antonio Baeza (Smith. Trop. Res. Inst.)
3. Reproductive behavior of decapod crustaceans: Keiji Wada (Nara Women's Univ.) & Satoshi Wada (Hokkaido Univ.)
4. Phylogeography and population genetics in decapod Crustacea: Christoph D. Schubart (Univ. Regensburg)
5. Speciation and biogeography in non-decapod crustaceans: Christoph Held (Alfred Wegener Inst. Polar Mar. Res.)
6. The new perspective on barnacle research: Toshiyuki Yamaguchi (Chiba Univ.)
7. Crustacean chemoreception: identification of cues and their applications: Charles Derby (Georgia St. Univ.) & Miguel V. Archdale (Kagoshima Univ.)
8. Ecology and behavior of peracarids: progress and prospects: Martin Thiel (Univ. Católica Norte) & Masakazu Aoki (Tsukuba Univ.)
9. Current status of fisheries and biological knowledge of snow and Tanner crabs genus *Chionoecetes* in the world: Hiroshi Motoh
10. Symbiosis in crustaceans: diversity and evolutionary trends: Susumu Ohtsuka (Hiroshima Univ.)
11. Diversity and ecology of thalassinidean shrimps: Gyo Itani (Kochi Univ.)
12. Impacts of human exploitation on large decapod resources: Taku Sato (Fish. Res. Agen.)
13. Conservation biology of freshwater crayfishes - new challenge starting from Japan, eastern Asia: Tadashi Kawai (Hokkaido Wakkanai Fisheries Experimental Station)

Akira Asakura, Secretary General, The Crustacean Society Summer Meeting

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Local Host Organization: Carcinological Society of Japan
Web-site: <http://wwwsoc.nii.ac.jp/cs4/Eng/index-e.html>

Respectfully submitted, Akira Asakura

2010 SICB

Request for Symposia Proposals

The SICB Program Officers are requesting proposals for symposia for the (Jan 3-7) 2010 SICB meeting in Seattle. 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 Crustacea". 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.

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

Brian Tsukimura
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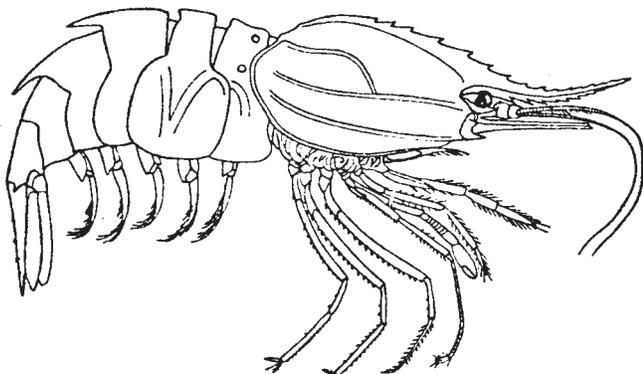
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Items of Interest...

Exploring the deep water off the west coast of Mexico

In June 2008 the XII research cruise TALUD, aimed at studying the deep-water benthic fauna off the west coast of Mexico, was organized by the research station of the Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México (UNAM), in Mazatlán, Mexico. Scientists from the Instituto Nacional de la Pesca (Fishery Institute) and the Universidad Autónoma de Sinaloa participated together with the staff of UNAM. The 11 days cruise included sampling the benthic fauna from ca 700 to 2300 m depth with a benthic sledge and the infauna (including meiofauna) using a box core. A autonomous CTD equipped with an oxygen probe was used to obtain environmental data within the water column. Pelagic micro-necton samples were also obtained at night to a maximum depth of ca 1500 m. The R/V El Puma of UNAM, a 50 m research vessel based in Mazatlán, was used during all these operations. Target groups include polychaetes, mollusks, echinoderms, crustaceans and fishes. Previous cruises included the southern and central Gulf of California. Including this twelfth cruise, many of the decapod crustaceans collected by the R/V Albatross in 1892 have been captured again during the TALUD survey and some species turned out to be rather abundant compared to the few specimens trawled and reported by W. Faxon in 1893 and 1895. Dominant species include several species of deep-water shrimp (e.g., *Heterocarpus affinis*, *Benthescymus tanneri*), the Glyphocrangonidae *Glyphocrangon spinulosa*, the Galatheididae *Munidopsis depressa*, and the Nephropidae *Nephropsis occidentalis*. Species of *Munidopsis* also dominated samples in some localities. So far over 40 species of decapod crustaceans have been recognized in benthic and pelagic samples. Cruise XIII in October 2008 will explore the northern edge of the El Carmen depression. The TALUD project is the only sustained effort in Pacific Mexico to study the deep-water fauna.

Michel E. Hendrickx
TCS Latin American Governor and Chief Scientist of the TALUD Cruises



CRReefs Australia Expeditions 2008–2010

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CRReefs (www.creefs.org), a Census of Marine Life field project (<http://www.coml.org>), is to fill knowledge gaps about which species live on the world's coral reefs. CRReefs Australia is conducting a series of field trips to Heron Island and Lizard Island, southern and northern Great Barrier Reef respectively and Ningaloo Reef, on North West Cape, Western Australia. Each site will be visited once in each year. Each expedition has had about 20 personnel; at the end of year one and three expeditions there has been 34 participants comprising 23 scientists (including four PhD students) from 11 institutions, with 10 support personnel.

Primary focus for crustaceans has been on peracarid crustaceans, principally the Isopoda and Tanaidacea, and to a lesser degree Cumacea (Great Barrier Reef Amphipoda are being treated under a separate Australian Museum project). In practice all 'small macro-crustaceans', including phyllocarids, decapods and stomatopods are being collected and preserved in ethanol. So far the results have been exciting.

Lizard Island and Heron Island each have about 60 recorded species of marine isopod. There are virtually no records of isopods from Ningaloo. Two weeks of collecting at Lizard Island (shallow water only, with few samples beyond 2 m) yielded more than 90 species of isopod, with an expected 30 or so new species and several records of genera not previously known from Australia such as *Afrocerceis* (Sphaeromatidae), presently recorded only from Kenya and *Lynseia* (Limnoridae) known only from southern Australian waters. At Ningaloo 80 species of isopod were collected, but only a small number (<10) could be immediately identified as named species, and there is a probability that the majority of these species are new. Of interest is that the Asellota constituted 53% of the isopods collected at Ningaloo compared to 26% at Lizard Island.

Some isopod families and genera are already showing high diversity, such as for the genus *Joeropsis* (Joeropsidae), a genus not previously reported from Australian coral reefs, with 18 species from Ningaloo and shallow water at Lizard Island. With further collecting at deeper sites and outer reef slope this figure will increase.





Items of Interest...

The Tanaidacea present a similar story, though coral-reef tanaidaceans are almost totally unreported. Fifty-five species were collected at Lizard Island and 38 from Ningaloo. Given that only 11 species of tanaidaceans are known from Queensland and no species have been recorded from Australian coral reefs it is expected that the level of novelty will be high, in excess of 50%. There have also been some large range increases of hitherto regional genera, such as the first occurrence of *Mirandotanais* from beyond Antarctic waters and the first record of *Metatanais* from beyond Japan, and several specimens of *Tanzanapseudes* (previously known from the Madagascar and Tanzania in the Western Indian Ocean and Bora Bora, Society Islands).

CReefs Australia Project is organised by the Australian Institute of Marine Science (AIMS) and generously sponsored by BHP Billiton in partnership with The Great Barrier Reef Foundation, the Australian Institute of Marine Science.

Information about personnel, projects and the field trips can be found at:

<http://www.aims.gov.au/creefs/index.html>

<http://www.aims.gov.au/creefs/latest-field-trip.html>

SE Wisconsin Ephemeral Pond Project

In 2008, the Milwaukee Public Museum (MPM) participated in the Wisconsin Ephemeral Pond Project, a mapping program sponsored by the Wisconsin Department of Natural Resources (WDNR) and the Southeastern Wisconsin Regional Planning Commission with the goal of updating the Wisconsin Wetland Inventory in a 5-county area of southeastern Wisconsin. The MPM Crustacea Collection includes voucher specimens of adult anostracans documenting staff fieldwork in the state from 1971 to the present. In 2008, selected localities from the targeted region that were fairy shrimp collection sites in prior years were re-visited for re-documentation. These collecting localities were re-located, sampled during April-May to see whether fairy shrimp were again present, and sited with GPS locality data. The re-documentation information was compiled in an Excel file and the dataset shared with WDNR monitoring personnel. This supplements our recent research on cyst bank sampling which used core samples from dry pond basins to identify a potential reserve capacity of such lands to produce anostracans under future favorable conditions, reported online at http://dnr.wi.gov/org/es/science/publications/PUB_SS_588_2006.pdf. The eventual aim of the WDNR Project is to enlist citizen monitors to assist in identifying, inventorying and monitoring ephemeral pond habitats statewide.

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New Publications...

Copepoda marine fauna of the Iberian Peninsula and adjacent areas

VIVES, F. & SHMELEVA, A. 2007. Crustacea, COPÉPODOS MARINOS I. Calanoida. FAUNA IBÉRICA. VOL.29, 1152 pp. MUSEO NACIONAL DE CIENCIAS NATURALES, C.S.I.C., MADRID. ISBN 978-84-00-08515-5. Price: €75

The lack of monographic books on Copepoda marine fauna of the Iberian Peninsula and adjacent areas, written in Spanish, is now covered with this excellent publication.

This is the first volume on marine Copepoda of the Iberian-Balearic region that Fauna Iberica dedicates to the study of this group of crustaceans. The monograph contains descriptions of 111 genera and 520 species of the Order Calanoida. Careful diagnoses of these species with corresponding figures and very good identification keys for families, genera and species are included. The book also covers up-to-date issues on world marine Calanoida distributions including the Iberian–Balearic region.

In addition to the specific parts about the Order Calanoida, this volume contains comments on copepod morphology, anatomy, physiology, reproduction, post-embryonic development, behaviour, and other aspects of their biology. The book also provides a comprehensive list of publications for marine copepods.

Researchers and students, not only Spanish speakers, but from every country, will welcome this highly recommended reference.

Florentina Álvarez-Marqués, Departamento de Biología de Organismos y Sistemas (Área de Zoología) Universidad de Oviedo, Catedrático Rodrigo Uría, s/n, 33071 Oviedo. SPAIN.

New Ostracod CD-ROMs

From the “Kempf Database Ostracoda” a new set of supplements is available. This set complements the publication series “Index and Bibliography of Marine Ostracoda” and consists of part 11 (Index A, Supplement 2), part 12 (Index B, Supplement 2), part 13 (Index C, Supplement 2), and part 14 (Bibliography E).

The objective index of the living and fossil marine Ostracoda now comprises over 55,000 taxa (genera and species, inclusive of homonyms and synonyms).

The published bibliographies of that series are now covering over 10,000 comprehensive literature citations.

More information is available from:

Prof. Dr. Eugen Karl Kempf

Uesdorfer Str. 61,

D – 50226 Frechen

Germany

E-mail: kempf@uni-koeln.de

Web sites: <http://ostracoda-on.tripod.com>, <http://www.kempf-world.net>



The Crustacean Society Graduate Student Fellowships and Scholarships



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

The Denton Belk Memorial Scholarship in Graduate Studies (\$1500); The Crustacean Society Fellowship in Graduate Studies (3 awards of \$1000 each in the areas of (1) crustacean ecology and/or behavior; (2) crustacean population genetics and/or physiology; and (3) crustacean systematics, biogeography, and/or evolution.

Go to <http://www.vims.edu/tcs/> for the application form (See “Student Information” on side bar)

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

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

Currently enrolled graduate students working on either a MS or PhD degree may apply by completing and sending the appropriate application form (see next page) and required documentation (CV, letter of support, and candidate’s statement) to:

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

For questions: jeff@vims.edu

DEADLINE FOR SUBMISSION: February 15th, 2009

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



The 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@hughes.net)

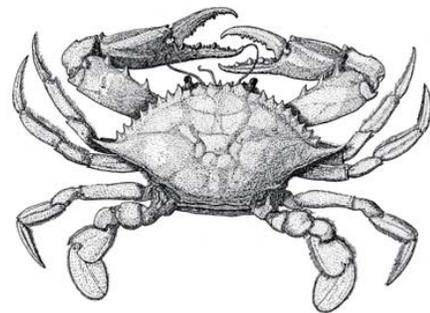
CRUST-SOC@VIMS.EDU

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, 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.



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 for inclusion in our website. We're also looking for participants to help in maintaining this site; step up if you're interested!



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