



The Ecdysiast

Newsletter of The Crustacean Society

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Message from the President...

Dear TCS members,

This will be my last missive to you as your President, and I have to say that I have really enjoyed serving you and the Society in this role. I am delighted to report that we have a vibrant society that continues to meet our mission: advancing the study of all aspects of the biology of the Crustacea. Over the last few years, the Society has undergone a transformation. We have updated our services to include electronic submission and reviewing capabilities, a new Internet subscription and business office web service, and full access to the journal via BioOne and JSTOR. I summarize these services below.

Manuscripts are now submitted online at AllenTrack, <http://jcb.allentrack2.net/cgi-bin/main.plex>. The status of your manuscripts can be tracked there, too. Subscriptions can now be purchased or renewed through our Business Office, <http://tcs.allenmm.com/>. You can also search for other members once you log in to this site. You can view an electronic copy of the journal at www.BioOne.org using your membership number and last name. You can also access earlier copies of the journal through JSTOR. Our newsletter, The Ecdysiast, will still be freely available on our Society website, www.vims.edu/tcs.

In April I gave a seminar on the state of our society at the annual BioOne Publishers meeting. As you'll see in a follow-up report, approximately 16% of our income comes from this organization. BioOne is our data aggregator hosting the online access to our journal. BioOne is a consortium of publishers, printers, and libraries that have established an academic business model to keep journal costs lower.

The Executive Officers of the Society have discussed several of items of business over the last six months. These include copyright permissions for pdf files, the distribution of pdf files, the formation and functions of the Awards Committee, the BioOne Publishers meeting, services provided by Allen Press, access to back issues of the Ecdysiast, and a donation to the Society. I elaborate on two of these: Copyright permissions can be granted on a case-by-case basis, this also applies to the availability of pdf files on personal websites. The Awards Committee has deliberated and selected two scientists for the Lifetime Achievement Award. The awards will be announced soon.

I would also like to reiterate some very exciting news. The Chinese Crustacean Society will be hosting the International Crustacean Conference VII in Qingdao, 2010! It will be an excellent meeting: the Chinese Crustacean Society has over 500 members; and Qingdao is a beautiful coastal city with all of the modern conveniences. Make your plans for Qingdao in 2010!

Sincerely,
Jeffrey D. Shields
President, The Crustacean Society



The State of the Crustacean Society

In April, I was invited to discuss the state of the Crustacean Society at the annual BioOne Publishers meeting in Washington, D.C. This gave me an opportunity to examine some patterns in our operations and publishing of the journal. A copy of my presentation, complete with figures and some analysis, is available at http://www.bioone.org/pdf/Meeting_2007_7.pdf. Below are some highlights.

The Society is a non-profit organization and holds the copyright to the journal. JCB is a significant profit center for our mission, even considering that our journal is less expensive than commercial equivalent. That is, members can afford to subscribe to the journal and therein lies one of our strengths. We can keep the cost of the journal low, maintain its high quality, and better fulfill our mission.

There have been significant changes to the publishing industry over the last 7 years. With the advent of electronic access to scientific journals, memberships in societies have declined, and ours is no exception. We have lost around 150 members and 60 subscribing libraries. Falling membership is our biggest concern. We have recovered from the lost subscribers by increasing our membership dues and cost of library subscriptions, but other expenses have been incurred, including increased costs in printing the journal. However, our membership in BioOne has made up for some of these expenses. Revenue from BioOne access has increased significantly over the last 4 years and now represents around 16% of our revenues. That is, memberships account for ~45% of our revenues, library subscriptions around 40%, and BioOne ~16%.

Over the last 7 years we have only had one year in which we did not make a profit, and that was primarily because of losses to investments concurrent with stock market declines. The Society has significant cash reserves, but one of our financial goals is to have endowments help with our operating costs. We're about half way to our goal of having \$1 million in an endowment.

We are approached annually by other printing firms that want to "help" us by taking over our operating costs for the journal. This would certainly be easier for the Executive Committee and Editor, and it would certainly make it cheaper for authors to publish in the journal as we could waive page charges. However, by keeping control of our journal, we keep its cost down, making it affordable to more scientists, and that is part of our mission: to promote the exchange and dissemination of [carcinology] information throughout the world.

I encourage you to download my presentation and see what is involved in operating a society and its journal. I found it enlightening!

Respectfully submitted,
Jeffrey D. Shields,
President, The Crustacean Society

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.

rwetzer@nhm.org
Regina Wetzer, North American Governor



The Crustacean Society Board Members, 2007

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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/ecdyasiast.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, current research, meeting summaries (with photos!), new publications and any other crustacean news.

Send all material directly to the editor:

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JCB Editorial Report for 2006

There were a total of 120 submissions to JCB in 2006. Of these, 16 were rejected for one reason or another, a total of 23.3 %, and one was withdrawn. These include the final submissions under the old paper-and-post system now no longer functioning and the first few submissions in the new AllenTrack on-line system. The AllenTrack on-line system went operational on 1 November 2006, but only a few submissions occurred in that new system before the end of the year.

Volume 26 contained a total of 678 pages. Some 70 research papers by 190 authors spread themselves out through the various fields:

Anatomy & Functional Morphology	2
Behavior	4
Ecology	16
Larvae & Development	3
Paleobiology	3
Physiology	4
Systematics, Evol & Biog	4
α -Taxonomy	14
Conservation	1
Short Communications	3
Commemorative	1
Special Cobb/Lobster	15

In addition, there were 2 obituary/memorial pieces, and 7 book reviews.

When we look at the number of times various countries are represented amongst the authors of these submissions, we see that while the USA appears on 39 items, 56 items bear authors from countries other than the USA.

Argentina	2
Australia	2
Brazil	5
Canada	5
Chile	4
Denmark	3
France	2
Germany	2
Italy	1
Iran	1
Israel	1
Japan	8
Mexico	3
New Guinea	1
Portugal	1
Russia	1
Singapore	2
South Africa	1
Spain	1
Taiwan	4
UK	4
USA	39
Venezuela	1

Some new features appeared in 2006. Papers are now organized by subject field to facilitate reader perusal of the Table of Contents. Special featured sections were added to highlight Conservation of Endangered Species and Short Communications now present diverse items such as collection or study techniques, announcements of discoveries, short observations of living material, and the like. And of course, volumes will now be color coded to speed retrieval and recognition on the bookshelves of the world.

Volume 27 is seeing the publication of the last submissions under the paper-and-post system, with a few items submitted under AllenTrack. Volume 28 (2008) will be entirely composed of electronically submitted materials.

Finally, Dr. Sherry Tamone, University of Alaska Southeast in Juneau, has joined the Board of Associate Editors to assist with submissions in the field of physiology.

Frederick R. Schram,
General Editor, JCB

CRUST-SOC@VIMS.EDU

The Crustacean Society's Listserver

The Crustacean Society has an email list server that is only open to members of the Society. This list server is designed to provide you with timely official Society business and important society announcements. CRUST-SOC is moderated and closed and is not a forum for discussion. It is not meant to replace CRUST-L, because the latter is open to nonmembers and is for broader discussion 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.



Changes to the Constitution

Dear TCS Members, our constitution and bylaws have been updated four times over the last 26 years. However, I have noticed that they have needed some additional updating and revision to provide us with operational flexibility. The Executive Committee has reviewed my suggested changes to constitution and bylaws, and now it is time for us to vote to accept or reject them. To save space, I present just the proposed changes to the documents. I have placed both documents in their entirety on our website at www.vims.edu/tcs/constitutional_changes.htm.

Article 3, Section 1: Membership. Membership in the Society is open to individuals interested in crustaceans. Membership can be obtained upon written application to the Treasurer of the Society with accompanying payment of dues. Institutions may obtain subscriptions to the journal through the payment of the appropriate fees to the Treasurer of the Society.

Article 3, Section 2: Types of Memberships. The following memberships are recognized: Member, Student Member, Patron Member, Emeritus Member, and Founding Member. Other classes of membership may be created by action of the Board of Governors, hereafter referred to as "The Board". Institutional Journal Subscription and Foreign Institutional Journal Subscription are not categories of membership, but represent subscriptions to the Journal of Crustacean Biology.

Article 3, Section 3: Rights of Members.

Article 5, Section 1: Officers. The elected officers of the Society shall be the current Past-President, President, President-Elect, Treasurer, Secretary, Liaison Officer for the Society of Integrative and Comparative Biology (SICB) meetings, and Program Officer. An officer must be a member in good standing at the time of election and must remain in good standing throughout the term of office.

Article 5, Section 2: Term of Officers. All officers shall be elected for a term of two (2) years by a simple majority vote of those members voting in the election....

Article 5, Section 3: Election of Officers of the Society. An election for the offices of President-Elect, Program Officer and SICB Liaison Officer shall be held in the last three months of odd numbered years. Elections for the offices of Treasurer and Secretary shall be held in the last three months of even numbered years. Elections shall be by means of a postal or e-mail ballot published with the newsletter and made available to the membership at least sixty (60) days before the election is concluded and ballots are counted. The closing date for return of ballots to the officer in charge shall be on or about December 31.

Article 5, Section 4: Vacancies In Elected Offices. In the event of a vacancy in the office of Past-President the office shall remain unfilled until the current President's term expires....

Article 5, Section 5: Removal from Office. Should an elected officer, for reasons of incompetence or malfeasance, fail to fully or professionally discharge duties of the office, the Board may vote by either of the means specified in Article 7, Section 1 to issue a request for resignation. Should the officer not comply with such a request after a reasonable period of time, the Board may act to remove the officer by a three-fourths (3/4) majority mail or email poll of the full Board membership. The resultant vacancy shall be filled as specified in Article 5, Section 4.

Article 6, Section 1. Board of Governors. The voting members of the Board shall consist of the current Past-President, President (Chair of the Board), President-Elect, Treasurer, Secretary, Program Officer, SICB Liaison Officer, Journal Editor and the regional Governors, one each to represent North America, Europe, Asia, South America and the Australasian* regions, respectively. As appropriate, regional Governors may be elected to the Board to represent other regions (e.g., Africa, Southeast Asia)....

Article 6, Section 3: Terms of Regional Governors.Regional Governors may serve two consecutive terms. In the event that regional Governors are elected from other regions, their elections will be held in odd-numbered years.

Article 7 Meetings, Section 1: Board of Governors. The Board shall meet at least once a year as part of an annual meeting. If announced in advance, an electronic meeting can suffice as an annual meeting....

Article 7, Section 2: Annual Meeting. The Society shall meet at least once a year. Officers and Governors are expected to attend when possible.

Article 12 Amendments: This Constitution may be amended by a two-thirds (2/3) majority of those members voting at any annual meeting of the Society or in a mail or email ballot....

Article 13: Bylaws: The Society may enact Bylaws for interpretation and implementation of this Constitution. Bylaws may be adopted, amended, or repealed by a two-thirds (2/3) majority of those voting at any annual meeting of the Society or in a mail or email ballot....

Changes to the Bylaws

Bylaw 1: Types of Membership. b. Student – a person enrolled as a student at an institution of higher learning. .

Bylaw 4: A. Past-President. The office of Past-President shall be filled by the immediate Past-President of the Society. The Past-President shall assume primary responsibility for promotion of the Society's journal to institutions and for solicitation of appropriate book offerings for the Society membership. The Past-President shall receive and compile nominations for the Excellence in Research Award and liaise with the Program Officer regarding other awards.

* It has been pointed out that it should be Oceanian or Australasian as opposed to Indo-Pacific



Changes to the Constitution

B. President.The President shall succeed to the office of Past-President upon the expiration of the President's term.

C. President-Elect. The President-Elect shall solicit nominations for offices and governorships from the membership and present nominations to the Board for consideration to adopt a slate of candidates....

D. Treasurer.The Treasurer chairs the Financial Committee.

F. Program Officer. The Program Officer shall be responsible for arranging or coordinating all symposia, workshops, conferences and similar activities in which the Society takes part. The Program Officer chairs the Awards Committee and liaises with the Past-President regarding the Excellence in Research Awards.

G. SICB Liaison Officer. The SICB Liaison Officer shall represent the Society at SICB meetings and will serve as liaison between SICB and the Society's officers. The SICB Liaison Officer shall liaise with the Program Officer to arrange symposia and workshops at SICB meetings.

Bylaw 6: Duties of Regional Governors: Regional Governors shall serve to represent the best interests of membership in all activities of the Board. In addition they shall serve to actively promote the Society through recruitment of Society members and Institutional subscriptions to the Society's journal in their respective regions. Regional governors are expected to attend regional carcinology-related meetings, advertise and promote the Society at these meetings, and promote relations between regional societies and the Crustacean Society. Governors are expected to file a yearly report to the Board of Governors (or the Society newsletter) on their activities (e.g., meetings attended, awards given, new members, important liaison issues).

A. Financial Committee. The Financial Committee shall consist of the Treasurer, who shall serve as Chair, and two members appointed by the Treasurer and approved by a majority vote of the Board. The Financial Committee shall prepare the annual budget for submission to the Board, audit all financial statements and shall advise the Board in all financial matters affecting the Society.

B. Editorial Committee. The Editorial Committee shall consist of the Editor, who shall serve as Chair, and Associate Editors deemed necessary by the Editor and approved by the Board. The Editorial Committee shall be responsible for management of the Society journal and all other scholarly publications of the Society.

C. Awards Committee. An Awards Committee of the Program Officer, the Past-President and four (4) other members of the Society shall be appointed by the Society President to evaluate student presentations for special recognition by the Society, and to periodically nominate a distinguished crustacean biologist to be recognized for a Lifetime Achievement Award or for the Excellence in Research Award for contributions to the field. Additional awards may be made as deemed appropriate by the Awards Committee. Nominations by the committee or its nominees, and the substance of all awards to be presented, shall be reported to the Board within two (2) weeks of an award being made and published in the next issue of the Society journal, newsletter and website.

Bylaw 9: Divisions: ...Expenses of the Division shall be paid from the treasury of the Society within limits of the amount allotted for this purpose in the annual budget of the Society and from funds received from special projects. No officer or member of a Division shall have authority to incur any expense in the name of the Society, except as above specified.

Constitution and Bylaws of 1981, as amended by the Board of Governors on 29 December 1984, 27 December 1991, December 1995, and 31 May 2003 and approved by members.

Published in the Journal of Crustacean Biology 1(2): 293–297, 1981; revised version published in Ecdysiast 5(2), August 1986; changes published in JCB 12(2): 331, May 1992; and changes published in Ecdysiast 15(1), May 1996 and Ecdysiast 22(1), April 2003.

Jeffrey D. Shields, President, President, 4 September 4, 2007

CRUST-L@VIMS.EDU

the Discussion List for Crustacea

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

Recent Meetings...

During the last COLACMAR meeting in Florianopolis, Brazil, in April 2007, members of the ALCARCINUS (Latin America Association of Carcinologists) met to discuss some issues related to Association developments. Members from seven countries attended the conference, which made it a very productive meeting where decisions were made concerning future orientation of ALCARCINUS. The by-laws of the Association are currently being reviewed and should be ready for submission during the next meeting in Coquimbo, Chile, in October 2007 (TCS Summer Meeting). The ALCARCINUS provisional board (Fernando Mantelatto, Brazil; Ingo Wehrtmann, Costa Rica; and Michel E. Hendrickx, Mexico) is currently supported by delegates in nine other countries.

Michel E. Hendrickx
Laboratorio de Invertebrados Bentonicos,
Unidad Academica Mazatlan, ICML, UNAM



Addenda to my communication of May 2007 (Ecdysiast Vol 26, No. 1, pg. 10)

On special request of our Director, Dr. A. Gracia G., I feel that it is pertinent to add the following to my May 2007 contribution to Ecdysiast (Vol. 26-1): support for handling the ALCARCINUS list and for use of equipment in my laboratory (as TCS governor and ALCARCINUS member) are courtesy of the Universidad Nacional Autonoma de Mexico (UNAM), Instituto de Ciencias del Mar y Limnologia, through its institutional budget.

Sincerely

Michel E. Hendrickx
TCS Governor for Latin America



Recent Meetings...

The 13th International Colloquium on Amphipoda

20-25 May, 2007

The 13th International Colloquium on Amphipoda (www.blki.hu/13thICA) was organized in the Balaton Limnological Institute of the Hungarian Academy of Sciences (www.blki.hu), on the shore of Lake Balaton, the largest lake of central Europe, by Ilona B. Muskó, between 20 and 25 May 2007. The Colloquium was one of several events celebrating the 80th anniversary of the Institute.

Nearly 50 participants from 21 countries, including Norway, Australia, Canada, USA, Russia and Spain, attended the Colloquium. Altogether, there were 26 oral and 24 poster presentations, with active discussions. Two workshops were also held. The Program can be seen on the Colloquium homepage under "Programme".

The Colloquium was largely successful due to the excellent presentations and the nice social events: the Get-together Party on the 20th, the Welcome Reception on the 21st, the Excursion to the Lake Balaton Highland, Keszthely, and the Kis-Balaton Water Protection System (followed by a wine tasting in Badacsony!) on the 23rd, and the Congress Dinner on the 24th (with a museum visit and a short organ concert in the 950 year old Benedictine Abbey in Tihany). During the Congress Dinner, after the fine Hungarian dishes, several kinds of Hungarian dances were demonstrated and almost all the participants danced thereafter. Photos can be viewed on the homepage photo album. The beautiful surroundings (and the possibility of swimming in Lake Balaton during the breaks) also contributed to the excellent atmosphere of the Colloquium. More information can be seen on the Colloquium homepage.



Recent Meetings...

THE PETROBRAS-CENPES ASELOTA & DELTA WORKSHOP RIO DE JANEIRO, MAY 2007

During 15-18 May 2007, peracarid crustacean enthusiasts met at the Museu Nacional / Universidade Federal do Rio de Janeiro (UFRJ; Brazil) to learn about isopods in the suborder Asellota, in conjunction with developing applications for DELTA (Description Language for Taxonomy). The workshop was led by Cristiana Serejo (Museu Nacional/UFRJ) and George D. F. (Buz) Wilson (Australian Museum, Sydney). Our workshop received financial support from the Petrobras Center of Research (Centro de Pesquisas da Petrobras - CENPES), PETROBRAS. Participants came from Brazil and Argentina: Universidad de Buenos Aires (Argentina), Instituto Oceanográfico da Universidade de São Paulo, Museu Nacional/UFRJ, Universidade Federal de Pernambuco and Universidade Santa Úrsula. The workshop included lectures on the systematics, ecology and distribution of deep-sea Asellota. As part of the DELTA survey, everyone developed a database application for one genus in the family Paramunnidae (*Abyssianira*). This database included a complete interactive identification key using the DELTA application INTKEY, including hot-linked images in the key. Other DELTA output developed during workshop included automatic description, with tips for formatting the database, standard paper keys for inclusion in publications, and generating data files for phylogenetic analysis. As part of the hands-on Asellota study, we used specimens collected during the Campos Basin Deep-Sea Environmental Project OCEANPROF, coordinated by Helena Passeri Lavrado, UFRJ, and Ana Paula Falcão, CENPES/Petrobras. These specimens came from numerous box corer samples, taken during February and August 2003 on the continental slope in Campos Basin, (21°48'S - 22°48'S). Specimens were identified using both interactive keys in INTKEY, an older paper key to the isopod families, and "show and tell" discussion to identify the specimens. We concluded that existing INTKEY databases and keys are not well designed for the diverse fauna off Brazil, so future efforts will include developing a key that will assist environmental projects in the South Atlantic deep sea. Nevertheless, by the end of the workshop, everyone could identify the major taxa of deep-sea Asellota and could confidently go back to their laboratories to generate their own DELTA applications.



ASELOTA WORKSHOP PARTICIPANTS (image at left). Front: Luana Lins, Felipe Santana, Ana Maria T. de Souza, Daniela Sittrop, André Resende de Senna, Ingrid A. da Costa, Brenda Lia Doti, Ana Maria Setúbal Pires Vanin. Rear: Jesser Fidélis de S. Filho, Ricardo Paiva, Buz Wilson, Cristiana Serejo, Helena Passeri Lavrado, Elaine Albuquerque, Petrônio Alves Coelho (photographer: Mônica de Moura).



Recent Meetings...

Shrimp, Snow crabs, Sexual Selection and Sancocho.....

The 11th International Congress on Invertebrate Reproduction and Development (ICIRD) was recently held at the Smithsonian Tropical Research Institute (STRI) in Panama City, Panama on August 6-9, 2007. Many crustacean biologists were in attendance and a significant proportion of the papers and posters were on crustaceans. I attended the meeting and represented TCS and thought it fitting that I report on the event to the greater membership. TCS was also a co-sponsor of the meeting.

It was an intimate meeting (~100 delegates) spread over the three days with a unique symposium event on each day and regular session papers in between.

The 3 symposia were:

1. The Environmental Signals Controlling Invertebrate Reproduction & the Impacts of Pollution
2. Mechanisms of Sexual Selection in Invertebrates
3. Parasite Manipulation of Invertebrate Reproduction & Development

The regular papers were divided into several areas including Reproductive Morphology, Pheromones & Hormones, Fertilization & Gametogenesis, Life Histories, Reproductive Cycles & Patterns, Genetics & Reproduction of Invertebrates, and Larval Biology & Reproduction.

Of the 91 papers and posters presented, 30% (31) were on crustaceans. Two crustacean presentations won awards, with Paula Rodgers from the USA winning the best student poster award and Carola Becker from Germany being runner up in the best student oral presentation.

Our STRI hosts were very generous with their facilities; with the meeting being held at the Earl S. Tupper Research & Conference Center in downtown Panama City, a reception at the coastal Punta Culebra Nature Center and field trips to a nearby rainforest canopy crane in Panama City's Metropolitan Nature Park, and a 3 hour guided rainforest walk in the Barro Colorado Nature Monument, which is a refuge island in the middle of the Panama Canal. All the social events and trips were well attended and lauded by the delegates.

My personal highlights included:

1. Learning a new term "apophallation" - where banana slugs chew off a mating partner's penis during hermaphroditic mating to ensure mating as a male (ouch!).
2. Catching up with some spermatologists I hadn't seen for 13 years....AND just talking about sperm!
3. Discovering the Panamanian specialty soup, "Sancocho" - a tasty broth with chicken, corn, yucca and sometimes, even yam.
4. Finding a great brew pub was only 5 minutes walk around the corner from the hotel.

5. Seeing howler monkeys, anteaters, sloths, toucans, trogons and leaf-cutter ants for the first time. So cool!

A few of low points were:

1. Seeing Jens Hoeg swoon at the banquet when a third person exclaimed that they thought the cirripedes were paraphyletic. He recovered by the next day just fine.
2. Catching a whiff of the rich aroma of the exposed mudflat at low tide on the promenade bordering the Pacific Ocean in Panama City.
3. Getting bitten by bed bugs (or worse?) in the last days at the hotel.

Respectfully submitted by Chris Tudge (TCS Secretary)

Workshop on Marine Squat Lobsters

During the week 3-7 September 2007, ten crustacean taxonomists with varying experience with the taxonomy of squat lobsters met at the National Institute of Water and Atmosphere, Wellington, New Zealand. 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). CoMargE (<http://www.ifremer.fr/comarge/en/index.html>), launched in April 2005, is one of 14 Census of Marine Life (CoML, <http://www.coml.org/>) field projects and is dedicated to the description and understanding of biodiversity patterns on continental margins. One of COMARGE's objectives, as with other deep-sea CoML field projects, is to foster the development of taxonomic expertise through workshops and exchange of taxonomists. Squat lobsters are dominant, numerous and highly visible crustaceans on seamounts, continental margins, many shelf environments, coral reefs at all depths, and at hydrothermal vents. Their abundance has stimulated considerable taxonomic research especially over the last two decades resulting in hundreds of new species being described and the older large genera subdivided into smaller ones.

During the five days of the workshop each participant shared the results of their work in presented papers:

Shane Ahyong, New Zealand - Anomuran phylogeny - the story so far.

Keiji Baba, Japan - The genus *Uroptychus* Henderson, 1888 from the Indo-Pacific

Adriana Bermúdez Tobón, Colombia (with others) - Galatheididae and Chirostylidae from Colombian waters (Crustacea: Decapoda: Anomura)

Patricia Cabezas, Spain - Application of molecular tools for the study of the taxonomy and systematic of the family Galatheididae



Recent Meetings...

Chiawei Lin, Taiwan - Galatheoids in Taiwan seas

Enrique Macpherson, Spain - Taxonomic status of the species of *Munidopsis* and *Munida* and allied genera - geographic scope and main gaps :

Martha S. Nizinski, USA - State of knowledge of galatheoid taxonomy, diversity, and ecology in the western North Atlantic :

Gary C. B. Poore, Australia - Australian squat lobsters: taxonomic history and prospects :

Celso Rodrigues, Brazil - The family Galatheidae (Crustacea: Decapoda: Anomura) on the Brazilian coast

Karen Schnabel, New Zealand (with Keith Probert, Niel Bruce) - Deep-sea downunder, species richness, habitat and distributional patterns of New Zealand squat lobsters (Chirostylidae, Anomura, Crustacea)

Most of the work during the week was devoted to compiling resources to share with future workers through the web. A hierarchical list of the world's species, almost 900 species, was completed by building on a database compiled over recent years by Baba and Macpherson. The list with synonymies and distribution information will be completed and submitted for publication by November 2007. With a little more work the list will be suitable to upload to marinespecies.org, the site dedicated to accumulating a list of all the world's marine species.

A bibliography of 877 citations in Endnote format was completed and pdfs of about 80% of these were linked to the bibliography. It will be submitted to the ATOL: Decapoda website.

During the workshop, updated dicotomous keys to species for most of the world's 40 genera were created. Good progress was also made on translating some of these to interactive keys in DELTA format. This objective requires considerably more work, but a promising start was made to electronic keys to families, all genera, and to species of smaller genera. Participants in the workshop are optimistic that these can be completed within a year and published in various media.

Finally, the workshop provided an opportunity for those using molecular tools for taxonomic and phylogenetic research questions to compare successes and failures.

My thanks go to all those who participated, to NIWA for hosting the meeting and to CoMargE for financial support.

Gary C. B. Poore
Museum Victoria, Melbourne, Australia
Member, International Steering Committee, CoMargE

Recent Expeditions...

Mapping benthic ecosystems on the deep continental shelf and slope in Australia's South West region

CSIRO Marine and Atmospheric Research (CMAR) joined with taxonomists from Australian museums on a series of cruises along the entire western margin of Western Australia beginning in December 2005. The objectives are to understand the evolution and biogeography of the region and to support implementation of the SW Regional Marine Plan and Commonwealth Marine Protected Areas program. Principal Investigators are Alan Williams and Rudy Kloser (CMAR) and Gary Poore (Museum Victoria).

Part of the work is devoted to swath-mapping and video-survey of what is essentially an unexplored coastline. The edge of the continental margin was covered in a series of transects and focus areas at the shelf edge and slope depths. During the December 2005 cruise, almost 200 benthic samples were taken between 32°S and 21°S. Another cruise took place in June-July 2007 using similar methods further north, from 21°S to the northern limit of the western edge of the continental margin.

The program concentrates on the taxonomy and distribution of the larger invertebrates, decapod crustaceans, sponges, echinoderms, corals, and larger molluscs. Grabs samples for smaller macroinvertebrates were also taken

All decapods from the southern cruise (6091 individuals) have now been sorted and first identifications made. Many more species than anticipated were found, 520 in all. The suborders are represented as follows: Achelata (5 species), Anomura (124 species), Astacidea (4 species), Brachyura (227 species), Caridea (88 species), Dendrobranchiata (44 species), Polychelata (5 species), Stenopodidea (1 species), and Thalassinidea (22 species).

Few of the species are from the relatively well-known southern Australia fauna, but instead the list includes new records of tropical species plus numerous new species. Some of the presumed new records may well turn out, on further examination, to be new taxa. The new species number at least 200, 40% of the total. The percentage of taxonomically difficult species is much higher than anticipated. A report detailing the results is in preparation.

The collection complements those made in the Western Pacific by the MUSORSTOM cruises. I invite any taxonomist with an interest in working up any of the taxa to contact me.

Collections from the northern cruise will be identified over coming months. First impressions are that diversity is not as high, but more new taxa can be expected.

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



Recent Research and Initiatives...

A revision of the hermit crabs of the family Diogenidae (Anomura, Paguroidea) from the Mexican Pacific

Among the hermit crabs from the Mexican Pacific the family Diogenidae is the best represented; however, many species are little known because their original description is very short and often illustrated poorly or not at all. Sometimes, type locality is unknown. In January 2005, Manuel Ayon Parente began a research project on the hermit crabs of the family Diogenidae from the Mexican Pacific as part of his PhD studies. The material examined to date includes 2100 specimens from (in Mexico): the Collection of Benthic Invertebrates, ICML, UNAM, in Mazatlán; the collection from ITESM, Guaymas, Sonora (now transferred to Mazatlán); the collection of the Universidad de Guadalajara, Melaque, Jalisco; and the National Collection of Crustaceans, ICML, UNAM, Mexico D.F. In addition, material (in the USA) from the Los Angeles County Museum of Natural History, selected specimens from the Museum of Comparative Zoology, Harvard University, and the hermit crabs from the University of Arizona, Tucson, were also examined. Fresh material was collected and examined from field trips in 2004-2007 in the subtidal and intertidal zone from the coast of Sonora, Sinaloa, Nayarit, Jalisco, Colima, Michoacan and Oaxaca, in Mexico.

So far, the revised material accounts for 46 species. Nineteen of these are new to science. The most well-represented genus is *Paguristes* Dana, 1851 with 17 species, four new to science. The genus *Stratiotes* Thomson, 1899, which is characterized by the presence 12 pairs of gills, is represented by 6 species, five new to science. The *Dardanus sinistriipes* Stimpson, 1859 complex comprises five species. A new genus, so far monotypic, close to *Stratiotes* will be proposed. An analysis of the phylogenetic relationships within the genus *Paguristes*, based on morphological characters, and a key to the genera and species of the Diogenidae known from the area will soon be proposed. An illustrated catalogue with all species from Pacific Mexico, including a revised description for each, data related to synonymies, examined material, ecology and distribution, is being completed. Special attention was given to description of the mouth appendages, which are often never described.

And, of course, we thank our colleagues Ramiro Roman C., Oscar Flores V. and Rafael Lemaitre (members of Manuel Ayon Parente's Committee), and Patsy McLaughlin for a constant, generous assistance.

Manuel Ayon Parente
Posgrado en Ciencias del Mar y Limnología, ICML, UNAM and
Unidad Académica Mazatlán, Instituto de Ciencias del Mar y
Limnología, Universidad Nacional Autónoma de México.

Michel E. Hendrickx
Unidad Académica Mazatlán, Instituto de Ciencias del Mar y
Limnología, Universidad Nacional Autónoma de México.

Assembling the Tree of Life: Decapoda – Making decapod literature available

Sponsored by the U.S. National Science Foundation, The AToL: Decapoda project (<http://decapoda.nhm.org>) is a multi-year, multi-institutional effort to resolve higher-level relationships within the Decapoda. Of course, such an effort demands that we assemble the systematic literature on the decapods. Rather than taking the standard approach and filing those papers into tidy little boxes in the investigators' libraries, we are making the information available to the community.

Our first efforts in that direction are at: <http://decapoda.nhm.org/references>. What we are making available is a (growing) database of decapod literature references, accompanied by pdf copies of the original papers wherever possible. The reference list can be examined directly on the website or downloaded as an Endnote-compatible library. We are aiming to make the reference text "definitive" by reviewing the references against paper or pdf originals of the works and then "certifying" the references in the database when that has been done.

Our hope is that this information will make it significantly easier for researchers around the world to pursue systematic questions within the Decapoda. We invite you to make use of what we have produced thus far. Please advise us of problems and suggest additions that will make the resource more useful to you.

Dean Pentcheff, Regina Wetzer, and Joel Martin
Natural History Museum of Los Angeles County
900 Exposition Blvd., Los Angeles, CA 90007
dean@crustacea.nhm.org

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!



Upcoming Meetings...

SICB 2008 Symposia

San Antonio, Texas

January 2-6, 2008

Advances in decapod crustacean phylogenetics

TCS is sponsoring a symposium titled "Advances in Decapod Crustacean Phylogenetics" as part of the January 2008, SICB meetings in San Antonio, Texas. The symposium is being organized by Jody Martin, Darryl Felder, and Keith Crandall, and is an outgrowth of their decapod crustacean "Assembling the Tree of Life" grant funded by the National Science Foundation. (Additional PIs on that grant are Nikki Hannegan, Rod Feldmann, and Carrie Schweitzer.) In addition to TCS, the symposium is being sponsored and partially funded by the Society of Comparative and Integrative Biology (SICB), two Divisions within SICB (the Division of Invertebrate Zoology and the Division of Evolutionary and Systematic Biology), and the American Microscopical Society. Additional funding has also been requested from the Society of Systematic Biology and from NSF. The symposium will be followed by a contributed paper session to include related talks on decapod phylogeny and, if additional funding is secured, a post-meeting workshop on decapod crustacean phylogenetic advances and techniques. A volume to include the published proceedings of the symposium and contributed paper session is also being planned. For additional information, contact Jody Martin at jmartin@nhm.org.



TCS 2008 Summer Meeting Galveston, Texas – June 9-13, 2008

TCS is pleased to announce that our Summer Meeting in 2008 will be held from June 9-13 at the Hilton - San Luis Resort, Spa and Conference Center located on the Gulf of Mexico beachfront in Galveston Island, Texas. 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. It possesses all the charm of a small southern town and is located 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 marsh and a bay cruise on the 53 ft. research vessel Earl L. Milan. For further information, contact Dr. Tom Iliffe, iliffet@tamug.edu



8th Larval Biology Symposium

Lisbon, Portugal

July 6-11, 2008

<http://ipimar-iniap.ipimar.pt/larval/index.html>

The symposium is being organized by IPIMAR Portuguese Research Institute. The symposium program 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

(J. I. González-Gordillo and H. Queiroga)

Molecular and geochemical markers for assessing larval dispersal

(L. Levin and R. C. Vrijenhoek)

Larval feeding Strategies

(R. Calado and K. Anger)

Eggs, embryogenesis and early larval life

(B. W. Hansen)

Ontogenetic strategies in extreme aquatic environments

(A. Hilário)

Larval settlement: cues, behaviour response, and possible mechanism

(P.-Y. Qian and J. T. Hoeg)

For more information, contact Antonina dos Santos at antonina@ipimar.pt or visit the website.

Upcoming Meetings...

International Association of Astacology 17 (IAA17) Symposium

Kuopio, Finland, August 4-8, 2008

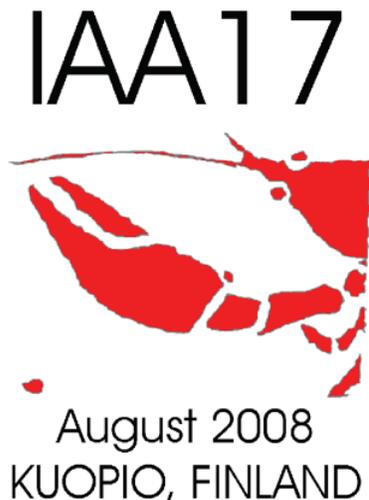
Next IAA symposium will take place in Kuopio, Savo, Finland, Northern Europe. Kuopio is a lake surrounded city in central Finland and famous for its nature, vendace, special gourmet food such as kalakukko, Savo culture and the Kuopio University Crayfish Team. The weather during the first week of August will be freshly mild, with sunny days and warm, dark nights, which will suit conference delegates just fine.

The symposium will be held on the Kuopio University campus, with all the lectures in one place. Kuopio University is situated close to the city center (20 min walk, less with a bike, bus or car) and all symposium accommodation will be close to the symposium venue, with the closest hotel just 1 km from the campus and the rest in the city center. There will be a tight and strictly scientific program for those interested in crayfish, with special emphasis on conservation of native species and crayfish diseases. Ecology, physiology, genetics, crayfish farming and other hot topics will also be covered. A social program will balance the days and will cater to accompanying persons. It will be crayfish and fun, for everyone!

The website for IAA 17 with all the details about the symposia is www.IAA17.net and the site will open later this year (the planned date is by the end of October). Keep your browser ready and, please, spread the word.

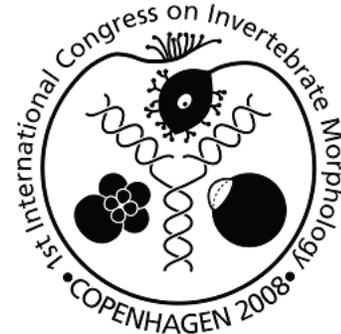
The organizers, the Department of Biosciences of the University of Kuopio and the Crayfish Innovation Center, strongly encourage all of our crayfish loving friends to make a note of the dates of the IAA 17 Symposium. One could even start discussions with those who run the finances on the possibility to hear, see, feel, taste and discuss crayfish in Kuopio with a special group of friends. We warmly welcome everyone to Kuopio, Savo, Finland next August. Crayfish rule!

Submitted on behalf of the organizing committee,
Paula Henttonen and Japo Jussila, IAA 17



1st International Congress on Invertebrate Morphology

Copenhagen, August 17-21, 2008



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

Registration and abstract forms are located at 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), Peter Funch (peter.funch@biology.au.dk), Anders Garm (anders.garm@cob.lu.se), Jens T. Høeg (jthoeg@bi.ku.dk), Reinhardt Møbjerg Kristensen (rmkristensen@snm.ku.dk), Jørgen Olesen (jolesen@snm.ku.dk), Martin Vinther Sørensen (mvsorensen@bi.ku.dk), Andreas Wanninger (awanninger@bi.ku.dk), Katrine Worsaae (kworsaae@bi.ku.dk)



Upcoming Meetings...

SICB 2009

Boston, January 2-6, 2009

Symposium details coming soon!

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

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

Invitation from the CSJ President:

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, 20-23 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, 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, gardens, museums, 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 much of what is new in crustacean science.

Keiji Baba

President, Carcinological Society of Japan

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 (address on page 16).

Call for papers

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

General Information

Venue: The Meeting will be held in Shinagawa Campus, Tokyo University of Marine Science and Technology (TUMST).

Airport: The nearest international airport to TUMST is Tokyo International Airport, Narita. The airport is a major connecting point for air traffic between Asia and other parts of the world including America, Europe, Oceania, Middle East, and Africa.

Airport to Venue: By Narita Express Train (N'EX"), 60 minutes to Shinagawa Station, and by Airport Limousine, 120 minutes to Shinagawa Station. TUMST is 10 minutes walk from Shinagawa Station.

Language: The official language is English.

Proceedings: It is planned that papers presented in the meeting will be published in a special volume of Crustacean Research, the official journal of the Carcinological Society of Japan.

Accommodation: There are many types of accommodation available in Tokyo, from hotels, ryokan (Japanese style inns), minshuku (Japanese style tourist homes) to youth hostels (YH). The grade of the hotels varies widely from luxury five-star hotels to economical business hotels, allowing attendees to choose one that fits their budget. Reservation for selected hotels around TUMST will start in autumn 2008.

Web-page: The web-page for further information, registration, and accommodation reservations, will open soon within the web-site of The Carcinological Society of Japan <http://wwwsoc.nii.ac.jp/cs4/index.html>.

Useful links

Japan Travel Information (Visa, currency and money exchange, travelers checks and credit cards, banks and ATM, climate, time difference, healthcare, business hours and holidays, telephone and postal service etc.) <http://www.jnto.go.jp/eng/index.html>

Tokyo Tourism Information (climate, personal belongings, transportation, eating, accommodation) <http://www.tourism.metro.tokyo.jp/english/>

General Information for Tokyo Metropolis <http://www.metro.tokyo.jp/ENGLISH/index.htm>

Tokyo University of Marine Science and Technology <http://www.kaiyodai.ac.jp/English/>

Tokyo International Airport, Narita <http://www.narita-airport.jp/en/index.html>

Airport Limousine <http://www.limousinebus.co.jp/en/index.html>
Narita Express Train (N'EX") <http://www.jreast.co.jp/e/nex/index.html>

Carcinological Society of Japan <http://wwwsoc.nii.ac.jp/cs4/index.html>

continued...



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
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955-2, Aoba-cho, Chuo-ku, Chiba, 260-8682 JAPAN
Tel: +81-43-265-3274 Fax: +81-43-266-2481

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.

Officers, 2006-2008

President: Keiji Baba

Vice-president: Ken'ichi Hayashi

Secretary: Seiichi Watanabe

Treasurer Shinji Tsuchida

Council: Akira Asakura, Seiji Goshima, Tatsuo Hamano, Michio Imafuku, Kooichi Konishi, Kensaku Muraoka, Susumu Ohtsuka, Shigemitsu Shokita, Hiroshi Suzuki, Keiji Wada, Seiichi Watanabe, Takao Yamaguchi

Respectfully submitted

Akira Asakura



New publications...

Census of Antarctic Marine Life: Synopsis of the Amphipoda of the Southern Ocean

In May 2007, the Belgian Royal Institute of Natural Sciences in Brussels published the first two volumes of the series "Census of Antarctic Marine Life: Synopsis of the Amphipoda of the Southern Ocean" as supplements to the "Bulletin de l'Institut Royal des Sciences Naturelles de Belgique". (Vol. 77, Biologie, Vol. 1 and 2).

The first volume contains as Part 1 the "Catalogue of the Gammaridean and Corophiidean Amphipoda" by Claude De Broyer (Brussels, Belgium), James K. Lowry (Sydney, Australia), Krzysztof Jazdzewski (Lodz, Poland) and Henri Robert (Brussels, Belgium). The catalogue comprises 815 described species and 70 unidentified taxa found in the Antarctic and sub-Antarctic waters, including the Magellan province of South America.

Detailed information on geographic and bathymetric distribution is given for all species, complete with the available habitat data. Some unpublished species records from the collections of the Royal Belgian Institute of Natural Sciences (Brussels, Belgium), the Alfred Wegener Institute for Polar and Marine Research (Bremerhaven, Germany) the Museum für Naturkunde (Berlin, Germany) and the Laboratory of Polar Biology and Oceanobiology, University of Lodz (Poland) have been included. Part 2 of this first volume will be an "Interactive key to the families and subfamilies of benthic Amphipoda (Crustacea) of the Southern Ocean" by James K. Lowry and should be published on CD-ROM later this year.

Volume 2 by Charles Oliver Coleman (Berlin, Germany) is a monograph of the Southern Ocean "Acanthonotozomellidae, Amathillopsidae, Dikwididae, Epimeriidae, Iphimediidae, Ochlesidae and Vicmusidae", with an excellently illustrated key to 87 species. Identification of most species is possible without dissection. Distribution maps for all species are included.

The authors of these two first volumes are very proud of the fact that the preface to the "Synopsis .." is written by Sandro Ruffo, the "Dean of amphipodologists". We dare to cite here a small fragment of his preface: "This work comes out in 2007, exactly 300 years since the birth of Carl Linnaeus. It can therefore be considered a significant tribute to the great naturalist whose system still today allows us to use conventional means, accepted unanimously, for naming living beings, through an historical and immutable language, and for ordering their units based on the progress of research. This work represents the state of the art of the knowledge on Antarctic marine amphipods, so it allows us to increase with greater certainty all that we know today about a group of animals of great environmental importance. Best wishes to the future scholars who now have the luck to have such an instrument at their disposal!"

Claude De Broyer & Krzysztof Jazdzewski



New publications...

To order the Census of Antarctic Marine Life: Synopsis of the Amphipoda of the Southern Ocean:

Orders: <http://www.naturalsciences.be/products/publications>
Exchange: <http://www.naturalsciences.be/science/library/exchange>

All taxonomic and distributional data as well as bibliographical references are accessible through SCAR-MarBIN portal: www.scarmarbin.be

The series is published in the framework of the five-year program "Census of Antarctic Marine Life" (www.caml.aq) set up for the International Polar Year 2007-2008.

An identification key for the benthic amphipods of the Gulf of Mexico and the Caribbean Sea **Clave para la identificación de los anfípodos bentónicos del Golfo de México y el sector Norte del Mar Caribe.**

197 pp. ISBN 970-32-4345-2

Authors: Ignacio Winfield Aguilar, Elva Escobar-Briones and Fernando Alvarez Noguera

This work contributes a regional checklist of benthic amphipods collected from soft bottoms of the continental shelf, continental slope and abyssal plain in the southwestern Gulf of Mexico and the northern Caribbean Sea. The 82 amphipod species included in this work are related to cruises that were carried out by UNAM. All specimens have been deposited and are available in the National Crustacean Collection at UNAM. The format is easy to follow, illustrated and suitable for students.

Published by CONABIO and Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México

Language: Spanish.

Available at CONABIO:

Postal Address

Liga Periférico - Insurgentes Sur No.4903

Col. Parques del Pedregal, Deleg. Tlalpan

C.P. 14010 México, D.F.

Phone: 5004 4934 and 5004 5000; Fax: 5004 4931

Contact Information and Price

L.C. Jacinta Ramírez Bautista Analista

Encargado del Centro de Documentación e Imágenes

E-mail: jramirez@xolo.conabio.gob.mx

Biological Invaders in Inland Waters: Profiles, Distribution and Threats

Series: Invading Nature - Springer Series in Invasion Ecology, Vol. 2

Gherardi, Francesca (Ed.)

2007, XXX, 734 p., Hardcover

ISBN: 978-1-4020-6028-1

\$179.00

As predicted by Charles Elton in 1958, today invasive species have come to dominate 3% of the Earth's ice-free surface, constituting one of the most serious ecological and economic threats of the new millennium. In spite of any prevention effort, the number of invasive species is expected to increase in the future as an inevitable consequence of both the augmented complexity of international trade and the deregulation of national and international markets. New pathways have been opened and the movement of non-indigenous species along them has been facilitated.

Since the 1980s, studies of non-indigenous species have expanded greatly as a reflection of the rise in popularity that the discipline of invasion biology has gained among ecologists. However, the number of published articles is biased towards terrestrial invaders; invasive events occurring in freshwater systems have been most often neglected or analyzed only in a few regional contexts or for a small number of paradigmatic species. Yet freshwater systems, whose value to humankind is obviously priceless, are particularly vulnerable to non-indigenous species as a direct consequence of the intensity with which humans utilize fresh waters for recreation, food sources, and commerce.

The book examines the identity, distribution, and impact of freshwater non-indigenous species and the dynamics of their invasion. Rather than providing a broad and comprehensive review of the issue, *Biological Invaders in Inland Waters* focuses on old and new invaders and also raises questions and opens perspectives that provide a starting point for further research. The ultimate purpose of this book is to help define a more general framework for our knowledge of invasions in fresh waters. Such a framework will be indispensable to the planning of a science-based management program.





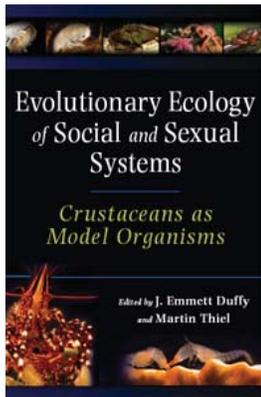
Evolutionary Ecology of Social and Sexual Systems: Crustaceans as Model Organisms

Edited by J. Emmett Duffy and Martin Thiel

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hardback, 520 pages, Price: \$59.50



Understanding of animal social and sexual evolution has seen a renaissance in recent years, with discoveries of frequent infidelity in apparently monogamous species, the importance of sperm competition, active female mate choice, and eusocial behavior in animals outside the traditional social insect groups. Each of these findings has raised new questions, and suggested new answers, about the evolution of behavioral interactions among animals. This volume synthesizes recent research on the sexual and social biology of the Crustacea, one of the dominant invertebrate groups on earth. Its staggering diversity includes ecologically important inhabitants of nearly every environment from deep-sea trenches, through headwater streams, to desert soils. The wide range of crustacean phenotypes and environments is accompanied by a comparable diversity of behavioral and social systems, including the elaborate courtship and wildly exaggerated morphologies of fiddler crabs, the mysterious queuing behavior of migrating spiny lobsters, and even eusociality in coral-reef shrimps. This diversity makes crustaceans particularly valuable for exploring the comparative evolution of sexual and social systems. Despite exciting recent advances, however, general recognition of the value of Crustacea as models has lagged behind that of the better studied insects and vertebrates. This book synthesizes the state of the field in crustacean behavior and sociobiology and places it in a conceptually based, comparative framework that will be valuable to active researchers and students in animal behavior, ecology, and evolutionary biology. It brings together a group of internationally recognized—and rising—experts in fields related to crustacean behavioral ecology, ranging from physiology and functional morphology, through mating and social behavior, to ecology and phylogeny. Each chapter makes connections to other, non-crustacean taxa, and the volume closes with a summary section that synthesizes the contributions, discusses anthropogenic impacts, highlights unanswered questions, and provides a vision for profitable future research.

TCS Board Elections, 2007

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.

Four offices are now open for the period 2008-2009: **President-Elect, Program Officer, Asian Governor, Latin American Governor.**

We also need to vote to accept or reject amendments to the Bylaws.

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, 2007. Brief biographies of the nominee or nominees for each office will be given on the website.

As of October 2007, the nominees are:

President-Elect: Akira Asakura
 Program Officer: Christopher Boyko
 Asian Governor: Xiang Jianhai
 Latin American Governor: Michel Hendrickx

Voting will close on 28 December 2007.





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.

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 Sheilds
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, 2008

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



**THE CRUSTACEAN SOCIETY
FELLOWSHIP IN GRADUATE STUDIES**

The Crustacean Society (TCS) annually awards one \$1500 Denton Belk Memorial Scholarship in Graduate Studies (focusing on large branchiopod research) and up to three \$1000 fellowships in graduate studies on crustaceans, one each in the areas of (1) population genetics and physiology, (2) ecology and behavior, and (3) systematics, biogeography, and evolution.

DEADLINE FOR APPLICATION: 15 FEBRUARY, 2008

Please return completed application and supporting materials to:

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

Name: _____

Mailing address: _____

E-mail: _____ FAX: _____

Home phone: _____ Lab/work phone: _____

Type of degree currently pursuing (please check one): _____ Master's _____ PhD

Current year of graduate study: _____ Expected date of degree: _____

I am applying for (please check one):

_____ The Denton Belk Memorial Scholarship in Graduate Studies

_____ The TCS Graduate Studies Fellowship (population genetics and/or physiology)

_____ The TCS Graduate Studies Fellowship (ecology and/or behavior)

_____ The TCS Graduate Studies Fellowship (systematics, biogeography, and/or evolution)

*** PLEASE ATTACH A COPY OF YOUR CV AND A SUPPORTING LETTER FROM EITHER YOUR MAJOR PROFESSOR OR ANOTHER MENTOR IN YOUR FIELD OF RESEARCH.

*** PLEASE NOTE: BOTH THE APPLICANT AND THE MAJOR PROFESSOR (OR MENTOR) MUST BE CURRENT MEMBERS OF THE CRUSTACEAN SOCIETY AT THE TIME OF APPLICATION.

CANDIDATE'S STATEMENT:

Attach a brief statement (no more than two single-spaced typed pages) summarizing your research objectives and program and specifically describing how this fellowship will contribute to your research and to your ultimate career goals. A short description of the budget for which this fellowship will be used must be included within the two-page statement.

Please also attach an official description or announcement of the course, field experience, workshop or training program if the fellowship will be used (either in total or in part) for this type of activity.