



# THE ECDYSIAST

Newsletter of the Crustacean Society

Volume 20, Number 1

May 2001

## Message from the President

Dear TCS members

For some time last year I owned two houses and a piece of empty land. My family and I bought a nice, but rather old house, bigger than the one we occupied and in the immediate neighborhood where we want to stay (I can catch *Daphnia* and *Cyclops* for my pet fish within two minutes walk — who can boast of that these days). A week upon signing the contract, however, a wonderful piece of empty land came up for sale. We all looked each other in the eye and bought that too. There's nothing like designing your own place to live and be able to supervise the craftsmen doing the work. Now the first house is sold, the older, bigger one is for sale, and.....we shall move into the new house probably during the week when the 5<sup>th</sup> International Crustacean Congress in Melbourne takes place. No, do not fear. Your president will come, and I started with this message to praise all the understanding (resigning?) families of our members that allow us to travel here and there in the midst of the good season to cultivate the animals and the science that mean so much to us!

The ICC5 will be the first time an ICC is chaired by an officer of presidential status. Gary Poore is our president-elect and I am confident he will take this double opportunity to make this a very memorable event. So, I guess we are all gearing up for Melbourne, which is also the TCS Summer Meeting, and I hope to see many

of you even if you have to travel far to get "down under."

In January 2002 we shall meet with the SICB in Anaheim, California, and the 2002 summer meeting will be held with the 3<sup>rd</sup> European Crustacean Conference in Lodz, Poland. You can already find these events through our home page. In fact, the Lodz meeting is one of the few Zoological meetings for 2002 that is already active on the BIOSIS Zoology Congress calendar. Well done, Lodz! I hope that many TCS members will attend these events too.

The host for the 2003 TCS summer meeting will be set no later than at the ICC5. Our secretary Jeff Shields at the Virginia Institute of Marine Science has offered to host the meeting. No other institution has yet volunteered, and if we decide to go to VIMS it offers a long overdue possibility to once again have a

TCS summer meeting in the 48 contiguous states of the U.S. (Hawaii and Alaska, what are you waiting for?). I therefore endorse that we accept the invitation from Jeff Shields and VIMS. The area is biologically exciting. You may well see me crawling around the mud flats hunting for rhizocephalized *Rhithropanopeus*, enjoying my past-presidential status.

Aside from the purely scientific activities, meetings also offer an opportunity to make TCS visible to carcinologists and other scientists all over the globe. I recently attended the gathering of German Carcinologists in Hamburg and was happy to award a TCS sponsored poster under a new set of rules that has just been instigated by the Board (see elsewhere in this issue). I have also just asked my officers to send me half yearly reports on their TCS related activities such as attending meetings. I plan to summarize these into short messages for the

*Ecdysiast*, so you will all get a feeling what your elected officers are doing for you. In the future, TCS officers can also be identified by wearing a label with our logo and "TCS Officer" printed on it. This allows both you and non-members to locate us and address us with whatever issues you may want to raise, also outside our more polished business meetings.

A few days ago I received in my mailbox the JCB issue in honor of our late editor, Arthur G. Humes. This is not the place to review that issue, but a quick paging through the volume testifies to the diversity and high quality of papers. I therefore want to take this opportunity

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to sincerely thank Paul Clark, Rony Huys and Geoff Boxshall (all of The Natural History Museum, London) for volunteering to act as guest editors. These warm thanks are also extended to our regular editor David Camp, who supervised this project.

In my last address I asked on behalf of myself and Michel Hendrickx in Mexico for ideas how TCS can assist carcinologists in financially troubled countries. Surprisingly, I have not had any response at all, but this does not make me stop. As I mentioned, one way to assist is by sending spare copies of scientific

journals, and I therefore urge members in countries of financial hardship to write to me and explain why they should benefit from such an initiative. This may eventually lead to some sort of shortlist published on these pages. Please write! I am here to help with such matters.

The fall elections are over and we have two new officers in our midst. A warm welcome is due to our new European Governor, Angelika Brandt from the University of Hamburg, Germany, and to our new North American Governor, Trisha Spears from Florida State University in

Tallahassee. I have known both these officers personally for years and can assure you that few are better suited to work for TCS. Angelika and Trish succeed our two outgoing officers Paul Clark (Europe) and Rafael Lemaitre (N. America). Both Paul and Rafa have worked for TCS more than you may be aware and they continue to do so. Paul and Rafa, my sincere thanks for the time you served with us. Incidentally, nobody ever thanks the editor of these pages, so Tim, thanks for providing us with these timely issues so important to the running of the Society.

*The Crustacean Society*  
2001  
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<http://www.nhm.org/~tcs/>

I would have liked to give you news on the financial status of the Society and the plans we have for improving it. However, this must wait until the next issue. What more is there to say? Spring is approaching (in this hemisphere). Anostracans, to this president the most beautiful of all Crustacea, are thriving in the ephemeral pond. It's good to be your president and it's wonderful to be a carcinologist.

Jens T. Høeg  
TCS President

## TCS Nominations

### Board of The Crustacean Society Call for Nominations for Vacancies (2002-2003)

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.

Nominations are now called for the following positions on the Board of The Crustacean Society for the period 2002-2003:

President-Elect  
Program Officer  
Asian Governor  
South-American Governor

The President-Elect serves for 2 years before assuming the role of President, who presides over meetings and represents the Society's interests in external affairs. The Program Officer is responsible for arranging and/or coordinating all symposia, workshops, etc. Regional Governors serve to represent the best interests of the membership, recruit members, and assist the Program Officer by coordinating international meetings in crustacean biology.

Members of TCS may nominate themselves or another member, provided the nominee agrees in writing to the nomination. Nominations should include

name, position, institution and address, plus a 200-word curriculum vitae, and be addressed to Dr. Gary C. B. Poore, TCS President-Elect, Museum Victoria, GPO Box 666E, Melbourne, Vic. 3001, Australia (gpoore@museum.vic.gov.au).

Ballot-papers will appear in the November 2001 edition of The Crustacean Society newsletter 'Ecdysiast' and voting will close 27 December 2001.

– submitted by Gary Poore  
TCS President-Elect

## Lista de Alca

A new crustacean discussion list "alca-l" has been recently launched. It belongs to the "Asociacion Latinoamericana de Carcinologos." The hope is that this new communication channel will help in the interchange of ideas and to promote cooperation between programs. To join the list please follow the commands below:

Send an email to **majordomo@fenix.ciens.ucv.ve**. Write in the body text: **subscribe alca-l**. You will be notified of your subscription.

Guido Pereira  
List Administrator  
(gpereira@strix.ciens.ucv.ve)

## E-Mail Directory

The TCS E-mail Directory was first published in the May 1996 issue of the *Ecdysiast* (Vol. 15, No. 1), although it included only those members that had responded to previous queries. Since then, additions and changes have been printed in subsequent issues of the newsletter. Any new information may be sent to Tim Stebbins, *Ecdysiast* Editor.

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## Contributions to the Ecdysiast

The *Ecdysiast* is published twice a year and mailed with the May and November issues of the *Journal of Crustacean Biology*. In addition, the newsletter is available from the TCS web site (see page 2).

Submissions for the spring (May) newsletter should be in by March 15, while those for the fall (November) newsletter should be in by September 15.

Anything of interest to the TCS membership is welcome, including notices of upcoming meetings and symposia, regional updates, research and job opportunities, important research findings, new publications, other related societies, and basically all things crustacean. Contributions may be submitted in any form, although electronic submissions are preferred and strongly encouraged. Submit all materials directly to the editor via email (tds@sdcity.sannet.gov) or at the address listed at the bottom of page 1 of this newsletter (Tim Stebbins, *Ecdysiast* Editor).



## The Winter 2001 SICB/TCS Meeting

### Summary of Events of Interest to TCS Membership at the 2001 Annual Meeting & Exhibition of SICB

The Society for Integrative and Comparative Biology (SICB) held its annual meeting at the Hilton Hotel in Chicago, Illinois USA from January 3-7, 2001. The Crustacean Society (among other groups) served as a co-sponsoring society.

The most important event for The Crustacean Society was the TCS sponsored symposium organized by Guy Charmantier from the University of Montpellier, France and Donna Wolcott from the University of North Carolina, Raleigh, NC, USA. Entitled, "Ontogenetic Strategies of Invertebrates in Aquatic Environments," the symposium included presentations on the following topics that were directly concerned with crustaceans: respiratory pigments (N. Terwilliger and M. Ryan), cardiac function (J. Spicer), hormones (E. Chang), vision (R. Jinks, T. Markley, G. Perovich, C. Epifanio, and T. Cronin), osmoregulation (G. Charmantier), and larval behavior (R. Forward). In a commendable effort to promote the exchange of ideas, the symposium organizers had made a concerted effort to not only include speakers from both sides of the Atlantic Ocean, but also researchers who worked on aquatic groups other than Crustacea. Presentations in the latter category included: quiescence and diapause of aquatic invertebrates (S. Hand), strategies of sessile invertebrates in fjords and lagoons (C. Young, E. Vasquez and I Svane), and metamorphic competence of marine larvae (M. Hadfield).

On Saturday, about 15 people interested in crustacean research gathered at an informal TCS "business" meeting. Based on my rudimentary notes and a fuzzy memory, some of the attendees were, but certainly were not limited to: Jack O'Brien (University of South Alabama), Sandy Gilchrist (New College of the University of South Florida), Tom and

Donna Wolcott (University of North Carolina at Raleigh), Guy and Mireille Charmantier (University of Montpellier), John McDermott (Franklin and Marshall College), D.H. Edwards (Georgia State University), Shiao Wang (University of Southern Mississippi), Shea Tuberty (University of West Florida), Linda Mantel (Reed College), David Borst (Illinois State University) and Scott Quackenbush (University of North Carolina at Wilmington). Concern was expressed by many about the low turnout of crustacean papers at the winter meetings compared to our representation in the past. Guy Charmantier said that funding for crustacean research in Europe was down and that it was difficult for people to travel great distances to attend meetings. Tom Wolcott emphasized that one reason why it was important for TCS members to present at SICB meetings was to show other researchers why crustaceans are good research organisms and to recruit students to the field. He pointed out that this is a national meeting that is relatively inexpensive for students because SICB is dropping the abstract fee and providing free lodging for students who run equipment in the meeting rooms. In other words, for purposes of recruiting students not only to one's lab, but also to the field, SICB has great potential. Donna Wolcott explained that it was difficult for her to attend the summer meetings as that was her research time and she usually was out of the country at her field site. Jack O'Brien thought that good symposia might draw more interest to winter meetings. He observed that this year there were far more poster than oral presentations concerned with crustaceans. Linda Mantel suggested that the Crustacean Society might call more attention to its presence if its members placed a conspicuous TCS logo on their posters. Sandy Gilchrist suggested that the society should set up a booth with TCS literature and membership forms. Scott Quackenbush said that work and family made it difficult to attend meetings such as SICB that met right after Christmas. He then reminisced about the

wonderful TCS lunches, social gatherings and informal dinners in the evenings that used to bring all the crustacean workers together at this meeting. He pointed out that it was at those functions that many at the present gathering became acquainted with one another. Maybe with some monetary help from the society the "business meeting" could become a social.

For those interested in crustaceans outside of the research laboratory, Guy Charmantier is assembling a collection of photographs and professional reproductions of artworks that contain crustaceans. Anyone who may be able to help him in his endeavor is welcome to contact him at <charmantier@crit.univ-montp2.fr>. He brought a number of striking reproductions to the meeting and stated his willingness to give a slide exhibition at a future TCS meeting. Certainly such a talk would be an appropriate presentation after a TCS lunch or dinner at a future meeting.

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### Best Student Presentation Award

The award for the Best Student Presentation at the Winter Meeting of The Crustacean Society went to J. L. Spees from the Bodega Marine Lab, University of California at Davis [co-authors S. Chang, M.J. Snyder, and E.S. Chang] for the paper entitled "Interactive effects of osmotic and thermal stress-responsive gene expression in the American lobster, *Homarus americanus*." The award winner will receive a certificate, a free one-year membership in TCS (which includes a subscription to the *Journal of Crustacean Biology*), and a cash award of \$50.00 from the society.

– submitted by Jack O'Brien  
TCS Program Officer



## 10th Crustaceologensymposium

### 10th Crustaceologensymposium in Hamburg

The "Crustaceologensymposium" is a small informal meeting of mainly German and recently also Danish crustaceologists. However, now scientists from Austria also attend these meetings, and this year even Wim Vader from the Tromsø Museum joined us. The meeting takes place every second year in February. Dieter Walossek agreed to organize the next meeting in Ulm in 2003, and a meeting in Copenhagen was also discussed. We may decide during the 2003 meeting whether we will get together in Copenhagen in 2005. The audience usually consists of a group of 50-100 participants (students to professors, palaeontologists and aquaculture people), with about 70 scientists joining the Hamburg symposium this year. All aspects of crustacean biology were tackled, from systematic questions, to behavior, neurobiology, biodiversity, evolution, etc. This year we tried to mix the scientific topics of each session, and our large lecture room was usually well visited. On both evenings we met in the show collection of the museum, the first for a "get-together meeting." On the second day we also had a small buffet in the museum instead of going out to a restaurant. This was advantageous, as people could move about and talk with more than one neighbor at a table, or they could walk around in the museum. For the first time at these meetings a student presentation was given an award by TCS, as reported below by Jens Høeg.

– submitted by Angelika Brandt  
TCS European Governor

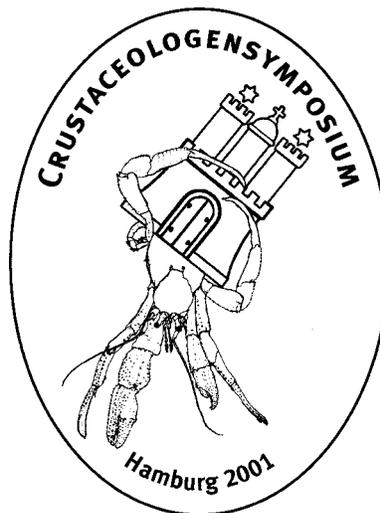
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### TCS Student Award

The Crustacean Society has started a new policy concerning student awards. Aside from the normal awards for best student presentation handed out

at our Summer and Winter meetings, such awards can now also be given by a TCS officer attending a non-TCS sponsored event. Each voting officer can give one award per year under a set of rules closely resembling that operating at regular TCS meetings.

During the meeting I exercised my powers as a TCS officer to hand out a best student presentation award at a non-TCS meeting. Prof. Brandt assisted in assembling a search committee and the prize went to a poster by Mr. Andreas Brösing (coauthors G. Scholz and S. Richter) from the Humboldt University in Berlin: "*Phylogenetic systematics and radiation of the Brachyura with special consideration of the K/T boundary.*" The award will consist of a subscription to JCB and a diploma.



The above gathering of the informal community of German carcinologists took place in Hamburg, February 15-17. The event was hosted by the Zoological Museum and Institute of the University of Hamburg and was chaired by our new European Governor, Professor Angelika Brandt. Her formal report on this event is given above, so this is my personal impression. While the language is obviously German, Danish carcinologists have frequented the last couple of these meetings and we have found no problem

in presenting our talks or posters in English. The topics covered in the presentations extended over a very broad spectrum, from taxonomy to developmental and molecular biology, and the quality was very high indeed. All posters were presented throughout the duration of the event, something that adds to the value of this form of presentation. There is nothing like quickly walking past numerous posters and then hours later or even the next day returning to the ones you really want to study in detail. Having posters on display for only a few hours of a single day is in my view detrimental to this particular type of presentation.

The meeting took place in the Zoological Museum and the closing banquet was held in the midst of the exposition. So several of us sat savoring our beers or wine back to back with a large whale skeleton or face to face with impressive tigers or other carnivores.

There is no German carcinological society. Nor seems it, is one needed, for these informal events are very successful indeed as they are. I can only recommend that other countries or regions with no formal carcinological society follow the example and try to do the same.

– submitted by Jens Høeg  
TCS President



## Brazilian Society of Carcinology

### A Brief History of the Brazilian Society of Carcinology

by Sérgio Bueno  
(translated by Janet Reid)

The Brazilian Society of Carcinology (Sociedade Brasileira de Carcinologia, SBC) is an exclusively cultural-scientific non-profit non-governmental organization. The SBC was founded on 10 February 1982 during the IX Brazilian Congress of Zoology, held at the Institute of Biosciences of the Federal University of Rio Grande do Sul (UFRGS) in Porto Alegre, state of Rio Grande do Sul, Brazil.

The statutes of the Society were approved in an assembly held during the Carcinologists' Meeting on 2 February 1983, in Belo Horizonte, Minas Gerais. These statutes established the following objectives for the Society:

- a) to unite all persons interested in the development of research on crustaceans;
- b) to stimulate scientific investigation in the field of carcinology;
- c) to promote studies of the crustacean fauna of Brazil;
- d) to represent the Brazilian carcinological community in national and international spheres;
- e) to foster exchange of information on the progress of carcinological research in Brazil;
- f) to promote and carry out regional and national meetings.

The SBC has benefitted from the direction of eminent Brazilian carcinologists, including Drs. Godofredo da Câmara Genofre, Ludwig Buckup, Jayme de Loyola e Silva, and Fernando D'Incao. The present members of the Executive Committee are Sérgio Luiz de Siqueira Bueno (President), Carlos Eduardo Falavigna da Rocha (Treasurer) and Maria Lúcia Negreiros-Fransozo (Secretary). Board members are Fosca Leite Pedini, Adilson Fransozo and Fernando Luis Medina Mantelatto.

At present, the SBC has about 250 members whose dues have been paid to date.

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### Nauplius, the Society's Journal

During Dr. Fernando D'Incao's first term as President, one of the strong desires of the SBC's members was realized. This was the creation of the journal *Nauplius*, the official scientific publication of the society. Since then *Nauplius* has been published annually at regular intervals. Volume 7, for the year 1999, was recently distributed to SBC members. This was the last volume edited at Rio Grande, state of Rio Grande do Sul, under the responsibility of Dr. Monica Montú. After 2000, *Nauplius* will be edited at Botucatu, state of São Paulo, under the editorial responsibility of Dr. Maria Lúcia Negreiros-Fransozo. Certain changes are envisioned, such as:

- 1) The journal will have a new format, A4 size, with double-column text.
- 2) All articles will be published in English, without exception. Abstracts may be in English or another language (Portuguese, Spanish, or French).
- 3) A great effort will be made to publish two numbers per volume, with an eventual goal of four numbers per annual volume.

The SBC also intends to publish special numbers, in addition to the normal issues of *Nauplius*. The first special number is presently being organized, and will include many of the reports presented during the I Brazilian Congress on Crustaceans (see below).

Publication information is available on the SBC web site (see below). All manuscripts should be sent to the journal editor: Maria Lucia Negreiros-Fransozo, Dept. Zoologia, IBB - UNESP, 18618-000 Botucatu, SP Brasil. (Email to: [mlnf@ibb.unesp.br](mailto:mlnf@ibb.unesp.br))

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### Scientific Meetings

Scientific meetings sponsored by the SBC, the so-called "Brazilian Symposia on Carcinology," occurred annually from the SBC's founding until 1992. All these meetings, however, took place within the framework of a larger

event, the annual Brazilian Congress of Zoology. The Organizing Committees of these Congresses generously provided all necessary logistical and technical support.

The present Executive Committee and Board is charged with resuming the organization and realization of scientific events under SBC sponsorship, at both national and international levels. Recently, the SBC organized and sponsored the I Brazilian Congress on Crustaceans, which occurred on 16-20 October 2000 in São Pedro, a small town in the interior of the state of São Paulo. In contrast to the previous Symposia, this meeting was totally independent of any larger event or sponsorship by other organizations.

The I Brazilian Congress on Crustaceans was successful and attained the anticipated objectives. More than 300 scientists and postgraduate and undergraduate students participated. About 263 projects were presented either as posters (250) or orally (13). The program of the Congress also included several seminars by eminent Brazilian and foreign carcinologists. The list of these presentations is available in the Program and Abstracts.

The next Congress is tentatively planned for the second half of 2002, and will again be held in the city of São Pedro.

In recent years, the SBC has begun to assume an international role. Since 1998 the Society has been a member of the International Crustacean Council, which unites other active carcinological societies of different countries and functions as the organizing agency for the International Crustacean Congresses. Brazil is a strong contender to host the VI International Crustacean Congress in 2005, in Rio de Janeiro.

SBC address and contact information: Departamento de Zoologia, Instituto de Biociências, Universidade de São Paulo Rua do Matão, Travessa 14 no. 101, 05508-900 São Paulo - SP, Brazil. Email c/o Sérgio Bueno: [sbueno@usp.br](mailto:sbueno@usp.br). SBC web site: <http://www.ibb.usp.br/sbc>

– submitted by  
Maria Lucia Negreiros-Fransozo

## Crustacean Meetings, Announcements & Schedule

### ICC5 Last Call

Fifth International Crustacean Congress and 'Summer' 2001 meeting of The Crustacean Society

9-13 July 2001  
The University of Melbourne

Melbourne Victoria Australia

**CALL FOR PAPERS AND  
REGISTRATION OPEN!**

**P**lanning for The Fifth International Crustacean Congress in Melbourne Australia in July 2001 is now well underway. Over 300 abstracts from about 250 persons were received by the end of February. Late abstracts will be accepted until mid-May 2001 but must be accompanied by paid-up registration. Twelve titled symposia have been offered during the 5-day meeting and pre- and post-congress tours are organised. Now is a last chance to register, book your accommodation, prepare an abstract for your paper or poster, and book your flight. Cheap flights to and from Australia can be difficult to find in July.

The cost for full registration before 1 May 2001 is A\$510 (approximately US\$280) plus the congress dinner at A\$110 (approximately US\$60). A reduced registration of A\$340 (approximately US\$190) is offered for students.

Please register early by either –

\* Visiting the website <http://www.unihouse.org.au/ICC5/index.htm> and registering on-line, or

\* Sending an email to [icc5@museum.vic.gov.au](mailto:icc5@museum.vic.gov.au) and requesting an electronic copy of the registration papers, or  
\* writing, faxing or telephoning Congress Manager, ICC5, University House, The University of Melbourne, Parkville VIC. 3010 Australia - phone (61-3) 8344 5254; fax (61-3) 8344 6055; email [h.frangos@unihouse.unimelb.edu.au](mailto:h.frangos@unihouse.unimelb.edu.au)

**ASSIST US AND YOURSELF - DO NOT LEAVE REGISTRATION OR BOOKING TO THE LAST MINUTE!**

### Decapod Fisheries Conference

Life Histories, Assessment and Management of Crustacean Fisheries

Universidade da Coruna A Coruna  
8-12 October 2001  
Galicia, Spain

**T**he conference is sponsored by the European Commission under the Concerted Action project EDFAM (European Decapod Fisheries: Assessment and Management). If you have previously seen a circular for this conference please note the change in date.

Conference themes will include: relevance of life history characteristics in assessment and regulation; meta-population concepts; local population assessments; analytical and research survey methods; life history characteristics and precision and bias in assessment methods; regulatory policies and methods; effort control measures; technical measures; compatibility with population structure and the fishing process; policy development in data poor environments; data visualization and data management systems.

Oral presentation and poster contributions are now invited. Abstracts should be no more than 250 words and should indicate the relevant conference theme and sub-theme, the presenting author and their affiliation, and type of contribution (oral or poster). The abstracts or requests for additional information should be sent by e-mail to Oliver Tully at [otully@tcd.ie](mailto:otully@tcd.ie).

The deadline for abstract submission is 31 May 2001. The conference proceedings will be published in *Fisheries Research*.

Conference organizers: Dr. Juan Freire, Universidade da Coruna, Spain (Conference host); Dr. Oliver Tully, Trinity College Dublin, Ireland (EDFAM Co-ordinator); Dr. Julian Addison, CEFAS Laboratory, Lowestoft, United Kingdom; Dr. Stefanos Kavadas, National Centre for Marine Research, Athens, Greece; Mr. David Symes, University of Hull, United Kingdom.

### Upcoming Meeting Schedule

**F**or links and updates to TCS and other meetings, check out the society's web site (see page 2).

#### TCS Meetings

Summer 2001 ICC5/TCS Meeting  
9-13 July 2001  
Melbourne, Australia

Winter 2002 TCS Meeting  
(with SICB)  
6-10 January 2002  
Anaheim, California, USA

Summer 2002 TCS Meeting  
(with 4<sup>th</sup> European  
Crustacean Conference)  
22-27 July 2002  
Lodz, Poland

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#### Other Meetings & Symposia

5th International Symposium on the Biology of Terrestrial Isopods  
19-23 May 2001  
Irakleio, Crete, Greece

14th International Symposium on Ostracoda  
1-4 August 2001  
Shizuoka University, Japan

International Commemorative Symposium 70th Anniversary of the Japanese Society of Fisheries Science  
1-5 October 2001  
Yokohama, Japan

Life Histories, Assessment and Management of Crustacean Fisheries  
8-12 October 2001  
Galicia, Spain



## Publication News

### California Isopods

The following e-publication regarding the coastal isopod fauna of California is now available.

**A Guide to the Coastal Isopods of California.** 2001. Richard C. Brusca, Vânia R. Coelho and Stefano Taiti. (<http://phylogeny.arizona.edu/tree/eukaryotes/animals/arthropoda/crustacea/isopoda/accessory/bruscapedet.html>)

The guide is complete with a key to the 10 isopod suborders followed by keys to all of the marine species that are likely to occur in intertidal and supralittoral zones of California and Oregon. Also covered are the commonly encountered fish parasites (Cymothoidae) and terrestrial isopods (Oniscidea) of the region. The keys are certain to be useful as well, although perhaps more limited, for regions north and south of that range. In addition to the keys, the guide includes an introduction section, diagnoses of the higher isopod taxa, an annotated listing of all described species from California waters, an extensive reference section, and plates with illustrations of all species.

The guide can be used interactively online or downloaded in Microsoft Word format. It can be found by going to Rick Brusca's NSF-PEET project web site (see address above), opening the "Our PEET Project" page, and clicking on the "Guide to the Coastal Marine Isopods of California."

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### Crustacean Issues

A new volume in Crustacean Issues has recently been published by A.A. Balkema. This volume represents results from the Second International Isopod Conference that was held at the University of Amsterdam in 1998.

**Isopod Systematics and Evolution.** 2001. Brian Kensley and Richard C. Brusca (eds.). Crustacean Issues 13. A.A.

Balkema, Rotterdam. 368 pages. Price: EUR 95, US\$ 110, £ 63, Dfl 209.

Contents for CI-13 include: *Taxonomy, systematics, biogeography.* New genera of terrestrial isopods from South America, with remarks on some species; A new species of *Politolana* from the south Brazilian shelf; Families and genera of Isopoda Anthuridea; Systematic of the Phreatoicidea; A review of the bopyrid isopods parasitic on thalassinidean decapods; Biogeography of the marine Isopoda of the Indian Ocean, with a checklist of species and records. *Ecology.* Parental behavior in the wood-boring isopod *Sphaeroma terebrans*; Depth-size related patterns of marine isopods in the Nordic Seas; Isopod assemblages on the continental shelf and upper slope from the southwestern Atlantic; Origin, age, and evolutionary rate of the microparasellid isopod *Microcharon* from the ground water of the south-Riffian region (Morocco); The influence of genetic and extrachromosomal factors on population sex ratio in the marine isopod, *Paracerceis sculpta*. *Morphology.* Morphology of respiratory organs in South American Oniscidea (Philosciidae); Some unusual morphological features of Amazonian fish parasites (Cymothoidae); Microscopic anatomy of the integument and digestive system during the molt cycle in *Ligia italica* (Oniscidae).

Balkema offers TCS members a 20% discount off the list price of Crustacean Issues (given above). Make sure to mention that you are a member of the society when ordering in order to receive this discount. Contact the publisher below to order the above book or for additional information pertaining to this or other volumes in the series.

A.A.Balkema Publishers  
PO Box 1675  
3000 BR Rotterdam, Netherlands  
(Tel: +31 104145822; Fax: +31 104135947;  
Email: Editorial@balkema.nl)

### Galápagos Crustaceans

The following guide to the crustacean fauna of the Galápagos has been recently published.

**A Field Guide to Crustaceans of Galápagos.** 2000. Cleveland P. Hickman, Jr. and Todd L. Zimmerman. Sugar Spring Press, Lexington. 156 pages, spiral bound. Price: US\$ 18.95.

More than 180 species of shrimps, barnacles, lobsters, and crabs from the Galápagos are featured in this comprehensive, thoroughly researched and reviewed treatment of Galápagos crustaceans. The book is illustrated with nearly 230 color photographs of living crustaceans, many accompanied by line drawings that direct attention to important diagnostic characters. Representing the result of 8 years of collecting and study, this volume continues the comprehensive, standard-setting, and highly respected design of previous volumes in the Galápagos Marine Life Series (sea stars, molluscs). All volumes in the series are available in either English or Spanish.

To order the Crustacean Guide, send a check or money order in the amount of 18.95 US\$ (Virginia residents add 4.5% tax) and payable to Sugar Spring Press to the address below. An order form and additional information for the Galápagos Marine Life Series may also be found at: <http://galapagosmarine.com/>. Be sure to indicate whether you prefer an English or Spanish edition. Orders are filled immediately and mailed postage prepaid.

Sugar Spring Press, 802 Sunset Drive,  
Lexington, VA 24450, USA

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### Deep-Sea Crustaceans

The *Résultats des Campagnes MUSORSTOM* is an ongoing series on the deep-sea fauna of the tropical Indo-Pacific. Initially focused on the New Caledonian region, the series has now

expanded to cover other South Pacific islands and island groups, in particular Vanuatu, Wallis and Funtuna, Fiji and the Marquesas. *MUSORSTOM*, which depends on an international network of collaborating taxonomists, is currently the most ambitious program of deep-sea zoological exploration. The *MUSORSTOM* series is a joint program of the Muséum national d'Histoire naturelle, Paris, and the French Institut de Recherche pour le Développement (IRD), and is published in the *Mémoires du Muséum national d'Histoire naturelle* (Zoologie).

The latest addition to the series is volume 21 (A. Crosnier, ed.) released in 2000. It includes contributions by 19 authors from Australia, China, Israel, Japan, Russia, USA and Europe, and deals with Hexactinella sponges (2 papers), cirriped and decapod crustaceans (6), pycnogonids (1), comatulid echinoderms (1), ascidians (1), macrourid fishes (1) and flatfishes (1). The results present new data on the morphology, systematics and distribution of 246 species. One order,

one new subfamily, nine new genera and 87 new species are described. Amongst the crustacean contributions, two are of particular interest.

The first is a study of the balanomorph barnacles of the superfamilies Chionelasmatoidea and Pachylasmatoidea collected in the waters of New Caledonia, Vanuatu and the Wallis and Futuna Islands. Of the 21 species collected, 18 are new to science and 2 are recognized as relictual. The number of new pachylasmatine described represents 46% of the known species and that of the new hexelasmatine 40%; hence our general knowledge of these groups is considerably improved. Wall structure, endemism and species diversity, significance of antenniformy, reproductive state and regression or loss of the penis are discussed.

The second is a complete revision of the crab family Palicidae, a group previously neglected by taxonomists and ecologists, despite their sometimes frequent occurrence in certain marine

environments. The evolution and biological significance of the reduced last pair of pereopods of most species pose difficult problems, and the taxonomy of the family and its position within the Brachyura had received little attention. In a paper of 169 pages, a complete taxonomic revision and a biogeographical review of this family are given. As a result, 43 species are recognized, 17 of which are described as new, and 9 species are synonymized. The feeding habits, locomotion, reproduction and larval development of palicids – which were practically unknown before – are briefly considered.

To order this or other volumes contact: (In France): Muséum national d'Histoire naturelle, Service des Publications Scientifiques, Diffusion: S. Hoffart, 57, rue Cuvier, F-75005 Paris; e-mail: dhenry@mnhn.fr. (Other sales office): Universal Book Services, Dr. W. Backhuys, P.O. Box 321, Leiden, The Netherlands; e-mail: backhuys@backhuys.com. Price: 600 FF TTC – 91,47 Euros TTC.

