



THE ECDYSIAST

Newsletter of the Crustacean Society

Volume 20, Number 2

November 2001

Message from the President

Dear TCS members

This summer's great event, the ICC5 in Melbourne, is now past and this president is also approaching past presidential status. However, there is still much to do during my term and this is not a good bye.

ICC5

The 5th International Crustacean Congress in Melbourne was a success. The 200 odd participants did not match the incredibly high number reached in Amsterdam. However, I do not fall into the trap of measuring success by such numbers. I truly believe every participant left with a feeling that this was a great event. You can read the official report on ICC5 elsewhere. These are my personal few words. Gary Poore and his co-organizers made a tremendous effort to make it all run smoothly and it did. Let me salute Helen Frangos from the Congress Service. Had it not been for her, this TCS president would have slept in the streets of Melbourne on the first night. Indeed the ICC5 was very special. Firstly, it is the third ICC held in Australia for these congresses have deep Australian roots. Secondly, it was the first ICC ever chaired by a TCS member of presidential rank. To me, this signified the quality and importance of carcinology in Australia, which was underscored by the congress being officially opened by no less than the Governor of the state of Victoria, Sir John Landy. This

was more than a mere formality, since his address revealed a profound interest in invertebrate zoology and biodiversity, and I believe each and everybody felt honored by his presence. To a cirripedologist, it reinforced my impression when listening to governor Landy announce his surprise at learning that barnacles are Crustacea. Clearly, here was a gentleman that had done his homework!

Glasgow next!

The scientific program was exciting but here I will mention some other important events that took place. Firstly, a meeting of the International Crustacean Council took place. I report on this separately on these pages, but let it be known here that the next congress (ICC6) is now

set for Glasgow in 2005 and will also be the official 5th European Crustacean Congress and the TCS summer meeting. I guess we are in for another "Amsterdam" sized event. Organizers, be prepared!

Before the ICC closing session we had already held the official TCS board of governors meeting followed by the official TCS business meeting. This meant that we could also use the ICC to coordinate TCS specific events. Our summer meeting in 2002 is already set for Lodz in Poland together with the ECC4. You can already access the website from the TCS website. Before that, however, let me remind you of our winter meeting in Anaheim, California with the SICB. To attract more members to this important event, we plan to spend some TCS funds to hold a social. Jack O'Brien has volunteered to be in charge of that. So members, come see us in Anaheim!

We also received an offer from our secretary Jeff Shields to host the TCS summer meeting in 2003 (site to be announced). The governors thanked Jeff for this, and it satisfies a long held wish by this president to once again have a summer meeting in the 48 contiguous states. With respect to 2004, Sergio Bueno of the Brazilian Carcinological Society gave a pro-forma invitation to host the 2004 summer meeting in his country. This still needs to be ratified by his society, but all in all it appears that we have all summer meetings set up to and including 2005.

The closing session of the ICC5 also gave me the opportunity to announce that Dr. Alain

In this Issue

<i>Message from the President</i>	1
<i>TCS Officers & Governors 2001</i>	2
<i>TCS Review Commission</i>	3
<i>The "Charge" - TCS Review Commission</i> ...	4
<i>Official TCS Poster</i>	6
<i>New Address for TCS Web Site</i>	6
<i>JCB Report</i>	7
<i>CRUST-L</i>	7
<i>Contributions to the Ecdysiast</i>	7
<i>ICC5 Summaries, Summer 2001</i>	8
<i>Publication News</i>	9
<i>Crustacean Meetings</i>	9
<i>TCS Fall Elections</i>	10



Crosnier of the Museum national d'Histoire naturelle (MNHN) in Paris will receive the Arthur Humes Award for Research Excellence in recognition of his life time contribution to carcinology. An announcement of this will also appear in a forthcoming issue of JCB. On announcing this I called ex-European Governor Paul Clark from the Natural History Museum in London to the podium and gave him the special TCS plaque and charged him officially with presenting the award to Dr.

Crosnier. Regrettably, I cannot myself be present at the event.

As those of you that have followed the CRUST-L list will know, the officers of TCS have decided to set down a review committee to review the policies and workings of our now 20-year old society. The setting down of this committee fulfills a wish I have had all through my term as president to have our fine society tuned and ready for the present millennium. You will be informed separately of the members

of the review committee and their charge elsewhere in this newsletter. I initially approached my colleagues and long time TCS members Prof. Fred Schram, Prof. G.A. Boxshall, and Latin-American Governor Marcos Tavares. Their duty became to write up a text which set down the purpose of the committee and direction for its function. This they did with extraordinary speed, and following that I used the early summer to approach a wide range of distinguished carcinologists to sit on

The Crustacean Society 2001

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the committee. My wish was to have a majority of non-voting members, representing a broad geographical and age spread.

Dear TCS members, it is September the 14th and I have tried for the last two days to complete writing this address which has been resting unfinished on my computer since late July. My opening words "This Summer's great event" sound hollow now. Wednesday I made a detour past the American Embassy in Copenhagen while bicycling to work and added my flowers and card as TCS President to the hundreds lying there already in commemoration of the thousands lost in the criminal act on Tuesday September 11, 2001. Today, the University of Copenhagen had two minutes of silence at 1200 for the same reason. I still do not feel like writing much more to you. I only hope and pray that all of you and everyone you care for are safe and well. Take care.

Sincerely your president,
Jens T. Høeg

*In Memory of Those
Who Perished*

11 September 2001



TCS Review Commission

The TCS Review Commission is in session. On the initiative of the president the TCS board of governors has decided to set down a committee to review the goals and working of our society. After more than 20 years since its formation, time is ripe to have our policies reviewed to face the new millennium. The "Charge" of the committee is set by a document written by three distinguished members of the society and approved by the board. The members were Prof. G.A Boxshall, Prof. F.R. Schram and Dr. Marcos Tavares, and I am indebted for their service. In nominating members of the committee I put special emphasis on spread in age and geography, on having members with a historical knowledge of TCS, of interests and insight in publication including electronic form, and last but not least, in having a majority of non-board members. The committee is now approved and in session and you can read its "Charge" in this newsletter and on the TCS web site. The seven committee members are listed below. I appeal to all members of our society to address the committee or any individual member if they feel they have important issues that bear on their work as stated in the "Charge." The committee shall report back one year from now, and I feel confident that their work will be a mainstay for the future development of TCS. Let us be grateful that they all agreed to do this important job for our Society.

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Contributed by
Jens T. Høeg
TCS President



The "Charge" - TCS Review Commission

PREAMBLE

TC S is now celebrating its 20-year anniversary. Our Society is still much the same as it began, but a lot has changed in the world around us in 20 years. The internet and communication by email have altered the way we seek and exchange information. The prospect of electronic publishing is here. The importance of non-English speaking members in the society is rapidly increasing. Our meetings are no longer automatically located in the USA, and sister societies and journals have been established in many countries around the world.

TCS does not exist just for itself, but was founded to serve and further the cause of carcinology. The time has arrived to review what we do, why we do it, and what we can do better. The goal should be to design a society to not only survive, but also thrive in the 21st century. To this end a Review Commission will be established to make recommendations for consideration by the officers, the board, and, ultimately, the membership of the Society.

TERMS OF REFERENCE

The Review Commission is asked to review the following aspects of TCS operations, and report to the Board within a reasonable time, making specific recommendations for change as necessary.

MISSION

Is the mission of TCS the same as when the Society was founded? Do we need a clear mission statement? The Commission could consider drawing up such a statement.

RULES & LAWS

Any organization needs to have a clearly defined framework within which it operates (the Constitution), and a doubly clear set of by-laws and procedures to

facilitate day-to-day activities. The two should conform.

The commission should survey the past minutes with the assistance of the society's Secretary to assemble a list of by-laws, procedures, officers' calendar, and past board decisions. The commission will focus on general aspects of Society functioning by:

- 1) verifying whether these activities conform(ed) to the constitution;
- 2) determining whether any should be discarded because they do not conform;
- 3) establishing whether the constitution needs to be amended;
- 4) standardizing a set of by-laws and procedures;
- 5) installing a reconciled set of these documents on the TCS web-site.

OFFICERS

There exist no established procedures for the important task of the handing over of officers' duties and responsibilities. This is critical for the office of president, but perhaps even more for that of the treasurer. Clear by-laws and a constitution mean little if the officer corps is not efficiently organized.

The commission will survey the managerial structure of the Society without any pre-conceived notions about numbers and duties of officerships. Among others, these should address the following issues.

- 1) Are 2+2+2 years the right tenure for president-elect, president, and past-president? Would other time spans serve better? Six years seems a long time as a voting officer, but 2 years may be too little for the active president to put policies into action. [On the other hand, 2 years may be too long if the presidential corps is inactive in the face of crises.]
- 2) What are the duties of officers constitutionally, and do their actual tasks conform with these duties? How many officers should we have and what

should be their obligations? Do these accord with the real needs of the society? Do the all the officers we have function well or at all? Are all officers as now established really necessary?

- 3) What are the duties of ancillary agents (web-master, newsletter editor, etc.)? Do these positions need to be formalized in some way into the officer corps? Should duties be subsumed or combined with officerships?
- 4) Are the officers functioning efficiently and effectively?
- 5) Specific attention should be paid in this review to the Regional Governors. We need to show "our flag" at regional meetings, and RGs can be of great help in this regard. However, RGs need more tools for doing so (official posters, budgets, maybe a special Application Form for Membership, etc.) and the Review Commission should pay some attention to developing strategies and procedures in this regard.
- 6) A question that should be examined: might better liaison or even integration with the national societies better achieve our ends? Should the RGs be replaced by the presidents of the sister societies, in the model of the International Crustacean Council?
- 7) If needed, the Commission should recommend a new managerial structure for the Society that will better serve the needs as we move into an information age.

THE JOURNAL

The *Journal of Crustacean Biology* was one of the principle reasons to establish the Society by the founders. The efficient and cost-effective dissemination of research findings is a central role for any scientific society. So critical is this, that the expenses of JCB dominate the yearly budgeting process, and this in turn drives memberships. Yet, the operation of scientific journals has, in general, remained virtually unchanged since the 1700s.

Special thematic issues could be an important tool to attract attention (and funds) from other fields/societies.

The Commission will:

- 1) Review journal operations both in regards to (a) science impact factor, and (b) working relationship with Allen Press.
- 2) Consider cost effectiveness of the journal operation.
- 3) Clarify the issues and set clear policies concerning special thematic and commemorative issues.
- 4) Investigate on-line publication in all its permutations, including (a) electronic publishing, (b) on-line supplements to journal, (c) purely on-line journal, and (d) if the latter, how things can be structured to insure stable Society income.
- 5) Do we have the correct pricing policy for the journal? How might this be affected if we went to on-line publishing?
- 6) Should membership be mandatory for the right to publish in JCB?

[It may be necessary for the Board to establish a separate working group to take on the issue of an electronic journal, a vitally important but complex matter. Ultimate recommendations here might proceed within a different time-scale from the other issues. Matters in this regard will have to be worked out with the involvement of Allen Press and may entail some already established effort there in Lawrence towards establishing journals on-line.]

AWARDS

The presentation of awards serves two functions. It acknowledges the professional achievements of carcinologists, and it projects a positive image for the Society. Nevertheless, the awards of any society must be structured in such a way that these ends are not compromised. TCS already has a standing Committee on Awards, but it has not functioned in this regard. Our awards and procedures associated with them have become hopelessly muddled. This review should in-

clude both the regular student awards as well as the research and excellence awards to professional TCS members.

The Commission will look into the following:

- 1) How many types of awards do we have and should we have?
- 2) Should the awards program be maintained or abolished?
- 3) What are the present procedures? (the commission might review the history of past procedures in this regard)
- 4) How do we assure that awards are handed out in a fair and just manner?
- 5) Develop absolutely clear criteria for making awards. These should entail some relatively objective standards by which to judge nominees, for instance, the breadth of an awardee's contribution to a field, and the real impact of specific research efforts. (A large number of publications in a single field should not be the sole criterion upon which to make awards.)
- 6) The criteria and procedures, once properly formulated should be installed onto the Society's web-site.
- 7) Nomination for TCS Student Awards in regional carcinological meetings is another efficient way of showing our flag, and that could hardly be done without input from RGs and/or officers of regional carcinological societies. The new procedures in this regard should be formalized into clear policy available on the web-site.

FINANCES

Money is the mainstay of any society. We must be concerned with managing financial matters in the most effective and legal way.

The Commission should take a hard look at financial matters (perhaps the services of a professional auditor should be considered to assist in this).

- 1) detailed review of income and expenses for the past decade should be assembled by the treasurer for examination by the Commission.
- 2) The investment history and current policy should be laid out and examined.

3) The relationship to the Allen Press society services office should be investigated. Are we getting value for money from Allen Press?

4) How do we assure having the maximum income combined with assuring constant, high recruitment of members? Should we have relatively high prices and use the resulting affluence to assist members in need? Or should we have low prices to attract members?

5) What is our current endowment status and strategy? Recommendations toward establishing and maintaining such should be developed. Some mechanism to monitor endowment growth should be established. Procedures for overseeing the accumulation and disbursement of earmarked funds, such as the recently suggested Denton Belk Scholarship Fund, will be necessary to establish in order to fulfill the Society's fiduciary responsibility in this regard.

6) How do we assure that an elected treasurer also has some detailed knowledge of accounting? Should perhaps the treasurer be elected for more than a mere two years? Or, is this such a critical position that it should be an appointed office instead. The commission might consider if two positions might better serve the Society's needs here: a treasurer (for money coming in and how it is handled), and a controller (for money being paid out).

MEETINGS

As the journal is our principle scientific function, so meetings serve as our principle social function. These include our annual winter and summer meetings as well as the periodic international congress. We also often have a presence at other regional meetings. The role of the International Crustacean Council should be considered here.

The Commission should review how do we manage our meetings. Should they be financially neutral? Should they earn us money? How do we plan to have them located evenly around the states and countries with TCS members? Should



we always “go with” larger carcinological meetings, or be on our own?

Winter meetings! They are presently USA based (in connection with SICB) and important in that regard. However, could we have an official TCS winter function elsewhere than in the US? Would this attract members? Given the growing importance and success of the summer meetings, are winter meetings needed at all? Answers here should not be based on tradition, but what really best serves the Society.

MEMBERSHIP & RECRUITMENT

TCS was founded as an international society, albeit based in the USA. Even so, for many years, people abroad perceived it as “an American” society, despite the attempt from almost the beginning to install the Regional Governors for purposes of international out-reach. Our membership has been locked on “dead-center” for years between 700-750.

- 1) How do we make contact with potential members especially in non-English speaking countries and countries with financial hardship? What is our policy? How do we achieve it? How has the ‘Special Needs Membership Fund’ functioned? Is it still operational?
- 2) How can we make common cause with the regional crustacean societies? [Brazil, China, Japan, Latin America (Spanish)] Would replacing the Regional Governors on our Board with the actual presidents of these regional societies be an option?
- 3) How do we interact with the specialty societies and working groups? [e.g., copepods, ostracods, amphipods, isopods, crayfish, Mediterranean decapods, etc.] Can we improve on this? Should we improve on this?
- 4) Can these society liaisons be used to increase dissemination of the journal? Should these interactions be formalized, or left informal?
- 5) Can special pricing devices be structured to facilitate these interactions and benefit journal distribution and society finances and membership?

- 6) How does our web-site function? Who controls it, and how is it financed? How can it be used more effectively?
- 7) Are the myriad classes of membership now in place effective? Do we need a separate student membership? If so, how do we develop a simple and effective way to verify this?
- 8) Make recommendations for maintenance of an easily accessible, up-to-date membership list on the Society’s web-site. [The last membership directory was published in 1994.]

MEMBERSHIP OF THE REVIEW COMMISSION

We suggest that the commission should include a relatively limited number of members, perhaps 5. It should be an independent body, perhaps not even including any current-sitting officers. Its membership could be selected from amongst:

- The general TCS membership.
- Past officers/president(s), in order to utilize their experience of TCS.
- Person(s) with intimate experience of running other international biological societies.
- Representative(s) from non-English speaking countries.

Respectively submitted to the president of The Crustacean Society, Dr. Jens T. Høeg, 29 May 2001.

Frederick R. Schram (chair)
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Marcos Tavares
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TCS Poster

The “official” Crustacean Society poster was unveiled at the recent Fifth International Crustacean Congress. The poster has a large format (125 cm in width x 90 cm in height), is bordered by color photos of crustaceans, and provides

information about the society, the *Journal of Crustacean Biology*, *The Ecdysiast*, the current slate of officers, and upcoming meetings. There is also an area left open to which membership forms can be attached. Our hope is that the poster will be displayed at scientific meetings to encourage new members to join. If you have access to a poster printer, we can send you a CD with the PowerPoint 98 file. Please contact Trisha Spears via email at spears@bio.fsu.edu (or Department of Biological Science, Florida State University, Tallahassee, FL 32306-1100).

TCS Web Site

New Address for TCS Web Site

Recently, the location or URL for the Society’s web site was changed. Over the last five years, The Natural History Museum of Los Angeles County and Jody Martin did us a great favor which included considerable monetary savings by hosting the Society’s web pages. Thanks! The web site is now graciously hosted by the Virginia Institute of Marine Science. Please bookmark the following link:

<http://www.vims.edu/tcs>

Portions of the site are changed monthly (e.g., manuscript tracking and crustacean links), and important notices are posted such as changes in manuscript processing and links to TCS-sponsored meetings.

This winter the TCS site will briefly serve as a distribution repository for the draft checklist of Crustacea for North America. The draft will stay on the site for a few weeks and notices will be sent to CRUST-L for reviewers.

If you have an interest in improving the site, please let me know. I’ve compared sites of other societies and I’ve purposely kept ours simple to make it easier to manage. However, we should consider adding several sections such as Crustaceans in the News, Best Student Paper Awards, The Crustacean Society for Graduate Students, multilingual pages, and more!

Jeffrey Shields (jeff@vims.edu)

JCB Report

Only recently have I read the duties of the Editor in the Bylaws of The Crustacean Society. Bylaw 5 states, in part, "The Editor shall . . . report to the Board on progress and cost of publications . . ." Before reading that, I was unaware that I was required to report on the cost of publications, for I assumed that was a duty of the Treasurer, who receives all invoices and pays for them. In accordance with that newly learned duty, however, I shall report such costs in my annual Editor's Reports, beginning here with the last year for which complete numbers are available, the year 2000.

During year 2000, in volume 20 of *Journal of Crustacean Biology*, including the special "Manning Issue," there were 111 research papers published, plus numerous biographies, reviews, announcements, and indices, for a total of 1,171 pages. Based on invoices from Allen Press, Inc., the society spent \$110,797.77 to print and distribute the five issues of volume 20 and to store the undistributed back issues, for an average of \$94.62 per page. In addition, \$2,394 (of \$3,000 authorized by the TCS Board for that purpose) was used to hire temporary proofreading assistants to help me proofread the page proofs. A total of \$3,718.61 was spent running the day-to-day activities of the editorial office, including the telephone/fax bills, postage, and office supplies. Finally, the Board authorized the purchase of a desktop copy machine for the editorial office, which cost \$641.99. I am very grateful to the Board for authorizing that purchase, for no longer must I drive to the nearest copy establishment to make routine copies.

Three issues of volume 21 have now been distributed, and the fourth issue has been partially typeset and is currently in proof. There will be over 1,100 pages in volume 21 (exact number not yet known, because the year-end index and contents for the volume have not yet been typeset as of this writing), making it the longest regular volume of JCB (without special

issues) ever published. The cost to print, distribute, and store back issues of volume 21, numbers 1 and 2, based on invoices from Allen Press, Inc., have been \$52,153.59. I will report the year-end totals in the next *Ecdysiast*.

Dave Camp, JCB Editor

CRUST-L

CRUST-L is the email list server for those interested in the Crustacea. It is an informal forum that ranges over scientific topics on the biology, ecology, systematics, taxonomy, physiology, diseases, cell biology, and culture of Crustacea. You have to be a member to post items to the list.

Administrative Commands: Use LISTPROC@VIMS.EDU to post administrative commands such as SUBSCRIBE, INFO, HELP. 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. Administrative commands should be sent to LISTPROC@VIMS.EDU not to CRUST-L.

Crustacean Posts: Use CRUST-L@VIMS.EDU to post your crustacean queries or responses to the list. There is a FAQ file available at http://www.vims.edu/~jeff/crust-l_faq.htm.

Problems: The alias problem occurs when your address is changed subtly by your system administrators (for example, ilovecrabs@brachyura.decapoda.net changed to ilovecrabs@decapoda.net). The change isn't transparent; your various subscriptions don't automatically change and you receive mail from the list server but you can't respond. I've tried a couple of work-arounds to allow "remote" unsubscriptions and haven't been successful. This has to be fixed manually by the list administrator, and for CRUST-L that's me.

I still occasionally have people ask why majordomo doesn't work or why the link from the Smithsonian doesn't work. The answers are that VIMS switched from majordomo to listproc software 2 years ago, and the Smithsonian hasn't hosted CRUST-L in over 5 years.

Please report any problems or comments with CRUST-L to me at jeff@vims.edu.

Jeffrey Shields

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* (published and mailed by Allen Press, Lawrence, KS). In addition, the newsletter is available for viewing or downloading from the TCS web site (<http://www.vims.edu/tcs>). 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. Although contributions may be submitted in any form, electronic submissions via email are preferred and strongly encouraged. Submit all materials directly to the editor (see bottom of page 1 of this newsletter for addresses).

Tim Stebbins
Ecdysiast Editor



ICC5 Summaries, Summer 2001

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

Thanks to the 269 participants from 36 countries who took part, presented 334 papers and posters over five days. Their names and the abstracts of their presentations are to be found on The Crustacean Society website. It was pleasing to us in Australia to see so many visitors from so many countries – and that no one country dominated the representation. It was also gratifying to see that one quarter of those registered were students.

Thanks to Helen Frangos and the University Conference Management Service who made everything run so smoothly. Thanks to Mr John Landy MBE, Governor of Victoria, who opened the meeting with appropriate words about the significance of Crustacea. Thanks too, to the supporting carcinological societies in Japan, Brazil, China and internationally. The Fifth International Crustacean Congress was also supported by grants from The Alfred P. Sloan Foundation and the Census of Marine Life, CSIRO Marine Laboratories, KE Software P/L, National Oceans Office, NSR Environmental Consultants P/L, and Museum Victoria. All of these particularly made student participation more complete.

I have asked the conveners of the special symposia to report on their sessions. I was not able to sit in on many of these but had only positive feedback. The efforts of the conveners in persuading contributors to come to Australia and in putting together a diverse program made my task much easier.

Now it is over, and it is back to my real job!

Gary C. B. Poore
For Organising Committee



3rd Crustacean Larval Conference

The ICC5 held in Melbourne, Australia, between 9 and 13 July 2001 and organized by Gary Poore, Museum of Victoria, hosted the 3rd Crustacean Larval Conference. The scientific committee for this symposium comprised Klaus Anger (Germany), Danilo Calalans (Brazil), Paul Clark (UK), Peter Ng (Singapore), José Paula (Portugal) and Henrique Queiroga (Portugal). The larval conference included aspects of systematics, physiology, genetics and ecology, and was arranged for Thursday, 12 July. Paul Clark was symposium congener for the meeting.

Our conference opened with an Introduction to discuss various business matters. This was followed by an invited plenary lecture and Klaus Anger gave a presentation on the role of salinity on larval biology of decapod crustaceans. A total of 14 contributed papers were given during the day and there were 5 larval contributions to other sessions of the ICC5. A total of 14 posters were exhibited during coffee breaks.

The scientific committee has agreed to publish the proceedings of the larval meeting and these are to be edited by Henrique Queiroga. Authors wishing to submit their larval contributions for publication in the Proceedings of the 3rd Crustacean Larval Conference should send 3 copies of their manuscript with double spaces lining to Henrique Queiroga, at Departamento de Biologia, Universidade de Aveiro, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal; email - hqueiroga@bio.ua.pt. The strict deadline for submission of manuscripts is October 31.

Jody Martin and José Cuesta were invited to join the larval scientific committee, both accepted. The scientific committee of the larval meeting would like to thank Gary Poore and his colleagues for organizing such a successful and enjoyable conference.

Contributed by Paul Clark

Burrowing Crustaceans

The *Burrowing Crustaceans* symposium was held on the first day of ICC5, and comprised three sessions of talks and several posters. I found it very inspiring to be part of a critical mass of biologists studying burrowing crustaceans. Speakers presented work on the crustacean groups Thalassinidea, Alpheidae, Nephropidae, Parastacidae, and Ostracoda. The topics discussed were varied, but all centred on the theme of fossorial life, including burrow structure, burrowing behaviour, feeding ecology, population biology, systematics and the concept of ecosystem engineering. The student talks by Jacopo Aguzzi and Hildie Nacorda were especially good, and Jeama Stanton won a Crustacean Society student prize for her presentation. Thank you to all those who took part in the symposium, many agreed it was a great success. Personally, I had a fantastic conference. This is the first time I have organised a dedicated session, and I now know what a great opportunity it is to meet scientists interested in similar research questions. At the end of the congress I was left with a wonderful feeling of enthusiasm and motivation that should keep me going for a while.

Contributed by Fiona Bird

Biology of the Anomura

This was the first gathering of this type dedicated solely to the Anomura, and hopefully it will not be the last. The many excellent contributions covered many topics in anomuran biology including: systematics, biogeography, morphology, phylogeny, ecology, behavior, physiology, and neurobiology. The two productive afternoon sessions saw 11 speakers (representing 21 authors) and 14 posters (representing 42 authors) present their latest research into this fascinating decapod group.

The diversity of papers was great and the research was of a very high standard. Researchers present at both oral sessions heard topics ranging from an exposé of unusual hermit crab sexual organs, through the latest molecular evidence of phylogenetic relationships within the Anomura, and the function of tropical hermit crabs as bio-indicators, to the diet and assimilation in the coconut, or robber, crab. Over coffee and 'biccies' on Thursday afternoon the *Biology of the Anomura* posters presented us with many interesting facts and photographs on topics such as the discovery of a new respiratory organ, or abdominal lung, in semi-terrestrial hermit crabs, foregut morphology, feeding habits and metabolism in several species of *Aegla*, shell utilization by hermit crabs in Brazil, and the systematics and taxonomy of lithodid crabs.

All symposium contributors agreed that it was a fruitful gathering of anomuran biologists and we look forward to future meetings. Many of the contributions (as well as the work of others who could not attend the meeting) are presently being considered for publication in a dedicated volume of the *Memoirs of Museum Victoria*, with ourselves as guest editors.

We extend our thanks to all the participants in the symposium and to the ICC5 organizers and their myriad helpers, who did an excellent job.

Contributed by
Chris Tudge & Rafael Lemaitre

Publication News

New Crustacean Issues

The Biology of Decapod Crustacean Larvae. Crustacean Issues, Volume 14, by Klaus Anger.

About 90% of the 10,000 known species of the Crustacea Decapoda live in oceans and adjacent coastal and estuarine regions, and most of them pass through a complex life history comprising a benthic (juvenile-adult) and a planktonic (larval) phase. The larvae show a wide array of adaptations to the pelagic envi-

ronment, including modifications in their functional morphology, anatomy, the molting cycle, nutrition, growth, chemical composition, metabolism, energy partitioning, ecology, and behavior.

All these traits are reviewed in this volume, attempting to promote an integrated, multidisciplinary view of the biology of larval Decapoda and other crustacean taxa. Emphasis is on the lesser known anatomical, bioenergetic, and ecophysiological aspects of larval life, as morphology has already extensively been documented in the literature. Changes in biological parameters (e.g. rates of feeding, growth, metabolism) are shown in successive developmental stages, within individual stages, and as responses to environmental factors. Particular attention is paid to interrelationships between intrinsic phenomena (molting cycle, organogenesis, growth) and the overlaying effects of extrinsic factors (e.g. food, temperature, salinity, pollution). Concluding from the available data, major bias and gaps in our present knowledge of larval biology are identified and discussed as to their potential significance in future research.

25% Discount for TCS Members

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Crustacean Meetings

For links and updates to TCS and other crustacean meetings, visit the Society's web site (www.vims.edu/tcs).

Scheduled TCS Meetings

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

Summer 2002 TCS Meeting
(with ECC4)
22-27 July 2002
Lodz, Poland

Winter 2003 TCS Meeting
(with SICB)
4-8 January 2003
Toronto, Ontario, Canada

Summer 2005 TCS Meeting
(with ICC6 & ECC5)
Glasgow, Scotland

Other Meetings & Symposia

National Shellfisheries Association
94th Annual Meeting
(<http://www.shellfish.org>)
14-18 April 2002
Mystic, Connecticut, USA

8th International Conference
on Copepoda
(<http://8thicoc.ntou.edu.tw/>)
21-26 July 2002
Keelung, Taiwan

14th International Association of
Astacology Symposium
4-10 August 2002
Queretaro, Mexico

8th Colloquium Crustacea
Decapoda Mediterranea
(<http://www.biology.uoa.gr/ccdm/>)
2-6 September 2002
Corfu Island, Greece



The Crustacean Society Fall Elections, 2001

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 2002-2003, including the positions of President-Elect, Program Officer, Asian Governor and Latin-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.

Nominations were called in May 2001 but only one nomination was received for each position. You may vote by email or by the ballot attached at the end of this newsletter. Email is the preferred method as it expedites the process. Please take the time to vote for the candidates nominated or your own write-in candidate. Voting will close **27 December 2001**.

To vote by email please put "The Crustacean Society 2001 Ballot" in the subject field and limit the message field to:

President-Elect: name of candidate
 Program Officer: name of candidate
 Asian Governor: name of candidate
 Latin-American Governor: name of candidate

Send email votes to Dr. Gary Poore, TCS President-Elect at gpoore@museum.vic.gov.au. To vote by regular mail, please mark your ballots and return them to: TCS Fall 2001 Elections, Care of: Dr. Gary C. B. Poore, President-Elect, The Crustacean Society, Museum Victoria, GPO Box 666E, Melbourne, Vic. 3001, Australia.

PRESIDENT-ELECT

Trisha Spears

Department of Biological Science, Florida State University, Tallahassee, Florida, USA

Trisha Spears received her Master's and Ph.D. degrees in crustacean molecular phylogenetics and systematics from Florida State University, where she currently holds a research faculty position. She is a recipient of the FSU Department of Biological Science Margaret Y. Menzel Award in Recognition of Outstanding Progress in Research. To date, research topics have focused on using 18S ribosomal RNA sequence data to infer higher-level relationships within and among the major crustacean lineages, including brachyurans, cirripedes, branchiopods, and peracarids. Current projects include (1) an NSF-funded molecular- and morphological-based phylogeographic study (in collaboration with N. Cumberlidge and L.G. Abele) of freshwater crabs and their marine ancestors, (2) phylogenetic studies of the Remipedia (in collaboration with J. Yager), and (3) an investigation into the molecular evolution of expansion segments in peracarid 18S rRNA genes. She has also begun the first assessment of branchiopod diversity in temporary ponds in the Apalachicola National Forest (Florida) and surrounding areas. She is a member of the Society of Systematic Biologists, Society for Molecular Biology and Evolution, and has been a member of The Crustacean Society since 1987 (having served on the Awards Committee and "volunteered" several times as a judge for the Best Student Paper competition). She has presented at annual Crustacean Society meetings since 1988 and has been a TCS Best Student Paper awardee. She has twice been an invited instructor at Darling Marine Center Summer Workshops and an invited speaker at symposia on arthropod relationships and applications of molecular techniques in crustacean biology. Trisha Spears is the current North American Governor of TCS.

PROGRAM OFFICER

Jack O'Brien

University of South Alabama, Mobile, Alabama, USA

Dr. Jack O'Brien received his B.A. from Stanford University in 1967 and then served four years as a Peace Corps Volunteer with the Philippine Malaria Eradication Service. He received his Ph.D. in Biology from the University of California at Santa Barbara with Adrian Wenner as his major advisor. He worked in the laboratory of Dr. Dorothy Skinner as a post-doctoral fellow and research assistant at Oak Ridge National Laboratory. Currently Dr. O'Brien is an assistant professor (with tenure) in the

Department of Biological Sciences at the University of South Alabama in Mobile. His research interests include physiological and ecological aspects of crustacean growth, the ecology and biology of parasites, especially rhizocephalan barnacles, and biochemistry of the crustacean integument. He has been a member of the Crustacean Society since 1983, has chaired the TCS Awards Committee since 1995, and is the current TCS program officer.

ASIAN GOVERNOR

Akira Asakura

Senior Researcher, Crustacea, Zoology Department, Natural History Museum and Institute, Chiba, Japan

Dr. Akira Asakura received a Dr. Sci. in 1987 from Kyushu University, working on population dynamics of hermit crabs. He developed a second major interest, the systematics of hermit crabs, after he occupied a permanent position in the Natural History Museum and Institute, Chiba in 1989. His research interests range broadly across ecology, biogeography, systematics and environmental sciences, focusing on crustaceans and other invertebrates. He was a leader of the Japan - USA - Commonwealth of the Northern Marina Islands Collaborative Expedition to the Northern Mariana Islands, Micronesia in 1992 and the Chairman of the Organizing Committee for the International Symposium on Natural History of Izu-Ogasawara-Mariana Arc in 1995. He has visited over 20 natural history museums all over the world for his research. He has attended 10 international congresses or meetings, including ICC3 in Brisbane, ICC4 in Amsterdam, ICC5 in Melbourne, Senckenberg Symposium on Decapods in Frankfurt, and the TCS Summer Meeting in Lafayette. He serves on the Board of the Council of the Carcinological Society of Japan as well as the Boards of the Executive Committees of the Japanese Society of Biological Scientists, the Japanese Association of Benthology and the Malacological Society of Japan. In the International Crustacean Council at Melbourne 2001, he acted as the official representative of the Carcinological Society of Japan. In addition to his c. 60 papers, he is the Editor-in-Chief of the Japanese Journal of Benthology, a frequent reviewer for several international journals, and an editor for several scientific books.

LATIN-AMERICAN GOVERNOR

Marcos Tavares

Universidade Santa Ursula, Rio de Janeiro, Brazil

Marcos Tavares received his M.S. in Zoology from the Museu Nacional, Universidade Federal do Rio de Janeiro in 1989 and a Ph.D. in Biological Oceanography from the Université Pierre et Marie Curie, Paris in 1994. Dr. Tavares is presently a Full Professor at Santa Ursula University, Rio de Janeiro, where he is also Coordinator of the Graduate Program in Marine Sciences and Coordinator of the Oceanographic Activities of the RV Ursula. Beginning in 1999, he has also served as Correspondent du Muséum national d'Histoire naturelle, Paris. He is a member of a number of professional societies, including the Sociedade Brasileira de Carcinologia, Sociedade Argentina de Carcinologia, Asociacion Latino-Americana de Carcinologia, The Crustacean Society, The Japanese Carcinological Society, Groupe d'Études et de Réflexion sur l'Évolution des Crustacés (GEREC, Paris), and the Biological Society of Washington. He has served on the Crustacean Society Nomenclature Committee, the Brazilian Council of Oceanography, and the Brazilian Government Department "Ministério do Meio Ambiente" (REVIZEE). Dr. Tavares has served as Guest Editor, Zoosystema, Paris and as a referee for a number of journals. His research interests include the systematics, zoogeography, and biology of decapod crustaceans, world-wide. He has published widely, including numerous peer-reviewed papers, abstracts, technical reports and book articles. He has been an active participant at a number of international meetings, including International Crustacean Conferences in Brisbane and Amsterdam, the TCS Summer Meetings in Charleston and Lafayette, the Première Conférence Européenne sur les Crustacés in Paris, the International Senckenberg Symposium Crustacea Decapoda in Frankfurt, the TCS Summer Meeting in Fort Pierce, and the Second European Crustacean Conference in Liège. Marcos Tavares is the current Latin-American Governor for TCS.



BALLOT



The Crustacean Society Fall Elections, 2001



Deadline for return of ballots is
December 27, 2001

Please mark or write in your choice of candidate for each of the TCS offices below, fold, staple, affix a stamp, and mail to Dr. Gary Poore at the address on the reverse of this ballot. If you prefer, you may vote via email by placing "**The Crustacean Society 2001 Ballot**" in the Subject line and sending your selections to Dr. Poore at gpoore@museum.vic.gov.au. See page 10 of the November 2001 *Ecdysiast* for detailed email voting instructions and for brief biographies of the candidates.

THANKS FOR TAKING THE TIME TO VOTE!!!

PRESIDENT-ELECT

_____ Trisha Spears

_____ other _____

PROGRAM OFFICER

_____ Jack O'Brien (incumbent)

_____ other _____

ASIAN GOVERNOR

_____ Akira Asakura

_____ other _____

LATIN-AMERICAN GOVERNOR

_____ Marcos Tavares (incumbent)

_____ other _____

Please detach, fold, staple, stamp and mail you ballot.

Staple

Fold 2

Place
Stamp
Here

TCS Fall 2001 Elections

Care of: Dr. Gary C. B. Poore
President-Elect, The Crustacean Society
Museum Victoria
GPO Box 666E, Melbourne, Vic. 3001
AUSTRALIA



Fold 1