



THE E CDYSIAST

Newsletter of the Crustacean Society

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Message from the President

Dear members of TCS

The Crustacean Society is changing. I am the first non-U.S. president of the society. Even more, our next president (from 2002) will be Gary Poore from Australia. This in itself is proof of a society on the move.

The Crustacean Society, although always international in its scope, started out very much as a U.S. based enterprise. Even the present composition of our fine officer corps is in itself proof of that. Until recently, most if not all meetings were also held in North America. But in 1998 we had our summer meeting in Amsterdam, and this year it will be in Puerto Vallarta in Mexico. As president-elect and now president I have been very pleased to see that whether our meetings are held in the U.S., as last summer in LaFayette, or elsewhere there has been a rapid increase in attendees from other continents. Not least I have noticed the many high quality presentations from members in Central and South America. This indicates to me that we might hope for a South American nation to host a future Summer Meeting or even an International Crustacean Congress.

Many of the participants at our meetings are young people still early in their career and this is a good sign. Young members and the spreading of our activities around the globe are crucial to the internationalization, which I see as the most important challenge facing TCS as we enter the 21st century. Our society started out very much

as a U.S. based enterprise and had it not been for the vision and persistent efforts of pioneers such as the late Ray B. Manning I would not be writing this address today. But there are enthusiastic and skilled carcinologists all over the world, and we should strive to make each and every member feel that the society is there to work for them. In this respect I shall rely increasingly on our regional governors. While officers such as the treasurer and secretary assure the daily running of TCS, the governors are of prime importance to keep in touch with carcinological activities around the world and recruit new members. It is they that best know about local activities, and I appeal to them to attend as many as possible of the national and regional carcinological meetings in their specific area. Such events offer unique

opportunities for regional governors, and indeed other members, to make the society visible, and often they can do this most effectively using the local language. Make yourself known as a member or an officer of TCS and talk to colleagues about the society and how it can help them with their science and career. Not least, listen to what is being talked about and be sure to communicate to TCS Board members what activities and changes we should consider to make the society even better. Being an officer in TCS is not just wearing a badge at our summer and winter meetings. The most important duties lie in between. Paraphrasing our past-president, Joel "Jody" W. Martin., always think of what you can do for the society.

Communication can go both ways. Therefore I also appeal to all our members to make use of the officers whenever they feel the need. Write to us and approach us at meetings with all the issues you feel important to carcinology. We are here to serve you. To many of you membership in TCS probably means subscription to our fine and esteemed journal and not much more. There is nothing wrong in this. Indeed I also joined to have JCB and access to publish in it and hardly knew about the society as such. But after attending my first TCS meeting in 1988, I experienced that membership offers much more. The list is long, but the student awards we offer at our meetings are one very important activity. In Amsterdam I had the pleasure of personally announcing the awards and presenting them to the winners. The joy, even tears, I saw in the faces of the winners were very real.

In this Issue

<i>Message from the President</i>	1
<i>TCS Officers & Governors 2000</i>	2
<i>Crustacean Society Awards</i>	3
<i>Winter 2000 TCS & SICB Meeting</i>	4
<i>E-mail Directory Changes</i>	6
<i>Research Assistantship Available</i>	6
<i>Contributions to the Ecdysiast</i>	6
<i>From the Editor of JCB</i>	7
<i>Raymond B. Manning Fund</i>	8
<i>Crustacean Meetings</i>	9
<i>Publication News</i>	13
<i>Upcoming TCS Meeting Schedule</i>	16



Many years ago I was myself lucky enough to receive a TCS award, and it is one thing of which I am both proud and which was noticed by several of the boards of evaluation I have passed through in my career. Thus I am convinced that handing our student awards is a very important activity. It could even be enhanced. TCS officers attending regional meetings could well hand out official TCS awards of distinction to student posters and orals. Such a strategy would insure that also presentations in local languages could get TCS recognition and

would again be a means to increase the visibility of our Society.

Our winter meetings are still being held almost exclusively in North America and jointly with The Society of Integrative and Comparative Biology (SICB). These are important events, not least because of the career opportunities they offer to young scientists, but we should appreciate that they are probably more important to North Americans than to members in other continents. Nevertheless, I know from having personally attended several winter meetings that they offer a tremendous

opportunity to keep abreast with developments in other fields of biology. At the latest meeting there was a much-praised symposium on developmental biology that I am sorry to have missed. I can therefore only advise you to attend meetings with the SICB whenever you can, but we should also realize that there are many biological events, which could candidate as well for being sponsored by TCS. Again, this would be part of the internationalization process and one thing I will strive to encourage during my tenure.



*The Crustacean Society
Officers and Governors
2000*



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The election of officers and regional governors is always an important event in our society. For the election held last fall we had an unusually wide geographical spread in candidates, and I want to thank all that stepped up for their willingness to serve TCS. Gary Poore from Australia was elected President-Elect. As Gary was already Indo-Pacific governor I used my presidential powers to appoint Colin McLay from New Zealand as the new governor from that area. Peter Ng from Singapore was re-elected as Asian governor. Marcos Tavares from Brazil won the election for Latin-American governor, while Jack O'Brien was re-elected as program officer. Congratulations to the winners and a special welcome to the new names. I look forward to working with the entire corps.

Amidst trends to internationalize we should not forget our strongest asset. Last year we lost our trusted editor of the *Journal of Crustacean Biology*, Dr. Arthur G. Humes. Amidst all the sadness we feel it is reassuring that we had already recruited a new editor, David K. Camp, and that the handing over of the editorial office had been successfully completed. As president I maintain a constant dialogue with David. The editor is uniquely in charge of our journal, but I find it important to keep a very close link between TCS and JCB. In David Camp I have met the same attitude and a dedication and professionalism that bodes well for the future. You should not expect JCB to always stay the way it was or your present editor to stay in this job for a lifetime. Again, we must change as the world and our science changes, and it is better to stay ahead than to try and catch up with developments spearheaded by others. Integrating our associate editors much more into the daily running of JCB is one way to go, and you should expect to see efforts in that direction.

No journal is better than its authors, so for JCB to maintain and increase its quality we need good papers from you. I do not expect you to submit each and every of your manuscripts to our journal. No one does that. Indeed, among the 50 odd papers I have published until now, only six or seven were in JCB. But I have

always tried to submit to JCB exactly those papers I wanted my carcinological colleagues to see and read because I considered them important and central to my work. Whether I have succeeded in this or not is for you to decide, but I am convinced this is the right strategy to follow. In these days of increasing specialization it is not easy to run a society journal, which covers most aspects of the biology of a taxon, from taxonomy to molecular biology. We are doing just that, and successfully, so I appeal to all of you to send David Camp those very manuscripts you consider most important and trend setting.

Last year and this we lost not only Arthur G. Humes, but also several other distinguished carcinologists including Raymond "Ray" B. Manning, Austin B. Williams, Dora P. Henry, Herbert G. Stubbings, and Gary J. Brusca. Obituaries of these distinguished carcinologist have already appeared or will appear on future

pages of JCB. We owe much to these colleagues and without them neither the TCS nor carcinology in general would have been what it is today. But amid the memories of what we have lost, we should look ahead. Our past-president, Jody Martin, has handed to me a strong and increasingly international society, ready to face the new century. I am deeply indebted to him and his officers for their dedicated work during the past two years. I also I know and trust that all of you will assist me in my efforts in the future. I look forward to see as many of you as possible at our upcoming Summer Meeting in Puerto Vallarta in Mexico.

Respectfully submitted by your
president

Jens T. Høeg

Crustacean Society Awards

The Crustacean Society presented several important awards at their January 2000 meeting, which was held in Atlanta, Georgia, USA in conjunction with the annual meeting of the Society for Integrative and Comparative Biology (SICB). The society's most prestigious award, the Award for Research Excellence, was presented to both Dr. Milton Fingerman and the late Dr. Arthur Humes in recognition of their outstanding contributions to crustacean biology (see the TCS/SICB Meeting Summary and the Minutes of the TCS Business Meeting that also appear in this newsletter for details). It was also announced that the TCS Board had voted unanimously to further honor Dr. Humes for his unparalleled contributions to TCS as the creator and long-time editor of the *Journal of Crustacean Biology*, by renaming this award the "Arthur G. Humes Award for Research Excellence."

TCS also recognized three student presentations at the meetings. Co-awards for Best Student Oral Presentation went to Mr. Todd H. Oakley from Duke

University for his paper entitled, "All compound eyes are not created equal: Opsin gene history is consistent with a recent origin of myodocopid (Crustacea) compound eyes," and to Ms. Sheila N. Patek from Duke University for her paper entitled, "Stick and slip: A novel mechanism of sound production in spiny lobsters (Palinuridae)." The award for Best Student Poster went to Xiaoli L. Yu from Colorado State University [Donald L. Mykles (CSU) and Ernest S. Chang (Bodega Marine Laboratory), co-authors] for her poster entitled, "Characterization of a factor in secondary limb regenerates that suspends molting in the land crab." Each 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.

Submitted by Jack O'Brien
Chair, TCS Awards Committee



The Winter 2000 TCS & SICB Meeting

Summary of Events of Interest to TCS Membership at the Annual Meeting of the Society of Integrative and Comparative Biology

by

Jack O'Brien

The Society for Integrative and Comparative Biology (SICB) [or in the words of Tom Wolcott, The Society formerly known as ASZ] held its annual meeting in Atlanta, Georgia, USA this past January with The Crustacean Society (and some other groups) serving as a co-sponsor.

Symposium Honoring Milton Fingerman

Unquestionably, the most important event concerning crustaceans at the meeting was the symposium organized by Penny Hopkins and David Borst to honor Milton Fingerman who, as Shea Tuberty pointed out in his introduction, has a curriculum vitae listing 445 publications [probably longer than many NSF proposals] and will have worked 50 years as a crustacean biologist. The following alphabetized list of symposium speakers and co-authors is a Who's Who of North American crustacean endocrinology and reflects the huge number of people who have either studied under or have been influenced by Milton Fingerman: Beltz, Borst, E. Chang, S. Chang, Hopkins, Jegla, Keller, Kravitz, Laufer, Mykles, Quackenbush, Rao, Riehm, Sagi, Spaziani, Tsukimura, Tuberty, Watson, and Yu.

During the concluding discussion session, participants and the audience were asked to list major issues facing crustacean endocrinology. The following is a synopsis of that discussion from notes kindly provided by Penny Hopkins:

- More needs to be known about how natural cues influence crustacean endocrine systems.

- There is a need to know more about peptide and steroid receptors.
- How are signal transduction pathways activated?
- What are the feedback mechanisms of steroid hormones?
- More may be learned about the multiple effects of crustacean hormones by determining the localization of receptors, i.e. their specific targets.
- There is a need for knock-out crabs.
- What exactly does molt inhibiting hormone (MIH) do?
- What are the control mechanisms for enzymes involved in hormone production?
- What are the mechanisms controlling ecdysteroid production and release?
- What is the significance of the various isoforms of hormones?
- Our understanding of the endocrinology of larval and juvenile stages of crustaceans is woefully inadequate.
- What are the mechanisms of hormonal control of receptor dimerization, as well as, activation of DNA and downstream genes?
- Many crustaceans are hosts to parasites (such as rhizocephalan barnacles and epicaridean isopods) that influence host morphology, behavior, and physiology. Study of these associations may provide insight into how crustacean hormones exert their effects.
- What are the mechanisms and physiological importance of endocrine disruptors?

The Fingerman Social

A large group (containing among others in addition to the symposium presenters, Guy and Mireille Charmantier, Donna and Tom Wolcott, Shiao Wang, former Fingerman post-docs and students Palla Reddy, Enmid Zou, Bob Hammon, and Clel Bartell, Fingerman's secretary of 30 years, Violet Germany, and his wife, Maria Esperanza) gathered later that evening at a social. As I passed from

group to group [trying to borrow quarters for beer], I overheard numerous people remarking about what a nice person Milton was. It was at the social that Milton received TCS's Award for Research Excellence from outgoing TCS president, Jody Martin, who had come from Los Angeles specifically for the presentation. Later, individuals took the floor to tell stories about Milton [and, of course, lies about each other]. One story was told of the post-doctoral student who arrived from India and was met by Fingerman at the airport. Milton helped the new arrival with his bags, took him to dinner, and then to his new apartment. When it was time to go, Milton explained that he would be by in the morning to take the post-doc to the lab. It was then that the new arrival asked when would he be able to meet Dr. Fingerman. [He couldn't believe that this gentle man was the great Dr. Fingerman.] Scott Quackenbush changed the mood, [I can't believe Scott wanted to know where the quarter was that I borrowed from him at the 1987 New Orleans meeting.] when he spoke wistfully of the stacks of empty beverage containers above the lab cabinets that Milton's co-workers [perhaps, with some help from Milton] had emptied over the years. In what was undoubtedly the most moving moment of the evening, Ranga Rao took the floor to describe how when as a post-doc in Milton's lab, his young daughter became seriously ill one night. The Raos were without transportation, but Milton showed up after midnight, took the family to the hospital, and then stayed throughout the night until the crisis had passed. Ranga's voice broke as he thanked Milton for helping his daughter that night. Milton is formally retiring from Tulane University on May 12th and the party in his honor will be from 5-7 PM.

Some Presentations of Note

In addition to the Fingerman symposium, three student presentations were recognized by the TCS awards committee. Co-incidentally, the two award-winning

oral presentations were given by students from Duke University. Todd Oakley impressed the committee with his testing of alternative hypotheses in his oral presentation entitled, "All compound eyes are not created equal: Opsin gene history is consistent with a recent origin of myodocopid (Crustacea) compound eyes." Oakley compared the nucleotide sequences of three ostracod opsins with those of other crustacean photosensitive pigments to test whether the data were consistent with one or multiple independent origins of the crustacean compound eye.

Sheila Patek's oral presentation "Stick and slip: A novel mechanism of sound production in spiny lobsters (Palinuridae)" was exceptional. After the talk, a woman in the audience was overheard remarking to her companion, Now THAT was a good talk. Patek's talk was also awarded the Best Student Presentation by the Division of Invertebrate Zoology of SICB.

Best Student Poster went to Xiaoli Yu working in Don Mykles's lab at Colorado State University and collaborating with Ernie Chang at the Bodega Marine Lab. Their presentation was entitled, "Characterization of a factor in secondary limb regenerates that suspends molting in the land crab." Previous work by Dorothy Skinner, demonstrated that if six or more limbs are removed from anecdyssial land crabs, the autotomized crabs will enter proecdysis, regenerate limbs and undergo ecdysis sooner than untreated controls. However, if only one of the regenerating limbs is removed in early proecdysis, further proecdysial development is delayed until a new regenerate grows to same size as the others. Yu and co-authors presented evidence that this molt-delaying factor, called Proecdysial Limb Autotomy Factor is a polypeptide with properties that distinguish it from MIH.

Also of interest was the talk by J.D. Williams of the University of Rhode Island entitled, "Documentation of shell-burrowing polychaete and barnacle predation on hermit crab eggs." Williams examined the interactions between two spionid polychaetes (*Polydora* spp.) and an acrothoracican barnacle on Philippine hermit crabs. The symbionts are found

in open-ended tubes in the columella of the host's shell and have been thought to be commensal suspension feeders opportunistically grabbing food particles during feeding episodes of the host crab. Williams presented evidence that the symbionts are actually egg predators as they enter the brood region and feed on eggs of ovigerous hosts.

[Now if I could only find out whether I will have to pay for any liquid refreshments I consume if I show up at the Fingerman retirement party at Tulane.]

Minutes of The Crustacean Society Business Meeting, Atlanta, Georgia, January 2000

The TCS Business Meeting was held in the Forsythe Room of the Atlanta Hilton and Towers on Thursday, January 6, 2000. Attendance was low. Past-president Jody Martin opened the meeting at 12:02 and began by announcing the results of the fall, 1999, elections. Society officers newly elected in the fall balloting were Gary Poore (President-Elect), Jack O'Brien (Program Officer), Peter Ng (Asian Governor), and Marcos Tavares (Latin American Governor).

The Treasurer's report, submitted in absentia by Alan Harvey, indicated that the Society is financially sound, but that there are also concerns. These concerns included a low investment income during 1999 (compared to the previous two years) and the rising costs of printing and distributing the Journal. Alan's report also indicated an increase in the individual membership category from 719 to 752 (as of October 31, 1999), but a drop in the number of institutional subscriptions (e.g. libraries and field stations) from 304 to 285; Alan reiterated the need for the Society to continue to investigate ways to recruit new members and institutional subscribers. Alan also mentioned the unified membership/subscription dues structure adopted by the TCS Board in 1999 (there had been much confusion over dues and membership categories in the

past, which ended up costing us money), and also the Board-approved increase in membership dues in three categories, which will help defray the rapidly rising cost of publishing and distributing our Journal. Special needs memberships were supported in 1999 in five countries (Ghana, Germany, Rumania, India, and China).

Editor David K. Camp presented the Editors Report. He presented the current status of the several issues being worked on simultaneously as of the date of the business meeting: volume 20, number 1 (in press); volume 20, number 2 (manuscripts ready to go to the printer); the special "Manning Issue" (manuscripts almost ready to go to the printer); and the special "Humes Issue" (manuscripts still being received and reviewed). All those issues were on schedule. As of the meeting date, there were 42 newly submitted manuscripts for regular issues (excluding the Humes Issue) currently undergoing peer review; 13 manuscripts that had been returned to the author for revision after peer review; and 27 revised manuscripts awaiting further review and decision of acceptance; 16 manuscripts had not been accepted for publication between August, when the editorship changed, and the date of the meeting.

Past-president Martin also mentioned that during 1999 the TCS Board of Governors approved spending \$3,000 to hire an editorial assistant to assist with proof reading, and also approved the new Manuscript Status Page on the TCS web site, such that contributors to JCB can more easily check the status of a submitted manuscript.

Past-president Martin then presented to the late Arthur Humes the TCS Award for Research Excellence, which the Board had unanimously approved just prior to Arthur's death. Accepting the award on behalf of Dr. Humes was Charles Derby, who graciously agreed to convey the Award to Woods Hole on behalf of the Society. Martin also announced that the Board had voted to approve the presentation of the Award for Research Excellence to Dr. Milton Fingerman, to be presented at the reception following the symposium in his honor.



Past-president Martin then informed the Society of the Board's unanimous vote to further honor Dr. Humes by renaming the Award for Research Excellence, which will from now on be called the "Arthur G. Humes Award for Research Excellence."

Future meetings were then discussed (Puerto Vallarta, Mexico, in 2000; SICB in Chicago, 2001; ICC5 in Melbourne, 2001; SICB in Anaheim, 2002), and it was announced that the Board had approved of providing \$1,500 for the Puerto Vallarta TCS meetings, and \$6,000 for the Melbourne TCS/ICC5 meetings. Elva Escobar's report on the Puerto Vallarta meetings, and Gary Poore's report on the ICC5 Melbourne meetings, were highlighted; both reports indicated that these meetings are well organized and will include many symposia and other activities.

There being no further old or new business, the meeting was adjourned at 12:54 PM.

Respectfully submitted,

Joel W. Martin, Past-President,
The Crustacean Society

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, changes and additions have been printed in subsequent issues of the newsletter. If your address or contact numbers have changed or you have not been included previously in the directory, please send the appropriate information to Tim Stebbins, *Ecdysiast* Editor.

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Research Assistantship Shrimp Reproductive Biology & Behavior

I am looking for a master's or doctoral student to work with me on a funded project dealing with hermaphroditism in cleaner shrimps (*Lysmata*) (see "Hermaphroditism" in my research website "<http://www.ucl.ac.uk/~rtb6933/>").

Students interested in beginning this fall should contact me as soon as possible. Ray Bauer, Dept. of Biology, University of Louisiana, Lafayette, P.O. 42451, Lafayette, LA 70504-2451; email: rtbauer@louisiana.edu; phone 337-482-6435.



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.lam.mus.ca.us/~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 e-mail are preferred and strongly encouraged. This saves the editor an enormous amount of time and minimizes transcription errors in the process. Submit all materials directly to the editor via e-mail (tds@sdcity.sannet.gov) or at the address listed at the bottom of page 1 of this newsletter (Tim Stebbins, *Ecdysiast* Editor).

From the Editor of Journal of Crustacean Biology

A Clarification

In my first article for the *Ecdysiast* as the new editor of JCB, I tried to cover too many topics in too brief a space, and I did it poorly. As a result, I was too brief and glib when discussing an important topic, and that got me into a lot of trouble. I felt when I wrote the article that I should mention my position on the topic of the recent elevation of subgenera of the genus *Penaeus* to generic rank. Unfortunately, I chose a very poor way to do it by relating my experience with an inquiry from the editor of the *Journal of the World Aquaculture Society*, who asked me what my position on the subject is because the matter was causing him grief with authors. When I told him my position, which I subsequently reported in the article for this newsletter, I was thinking only of non-taxonomic articles written by authors who may have had no taxonomic training (aquaculturists, actually). That thinking clouded my answer and made it too glib. As a consequence, at least two readers of the *Ecdysiast* took me to task. One, a world-renown systematist with well over 50 years of publishing experience, wrote and warned me not to play God by taking one side of the debate as gospel truth or to suppress the freedom of taxonomic thought or actions of authors in contradiction to the preamble of the International Code of Zoological Nomenclature. He was right, of course. The other, a molecular systematist, wrote and told me my article was "offensive." Needless to say, I must make amends. First, let me apologize to anyone who may have been personally offended by my glib statements. Second, let me assure you that, as Editor, I am not trying to play God and would never suppress reasonable taxonomic discourse in JCB. I will accept for consideration of publication any taxonomic articles that may present alternative views to previously proposed schemes of classification. However, I believe papers on non-taxonomic topics should use the nomenclature of the organism being treated that is currently accepted by taxonomists. If an author who

may not keep abreast of recent taxonomic actions submits a paper using old nomenclature for the organism, I believe I (not to mention the reviewers) have an obligation to suggest the nomenclature be updated to that currently being used by taxonomists, as reflected in the most recent revisionary taxonomic works. Most authors in that position would probably agree to do so (and some have already). However, if one refused to do so simply because he or she did not like the recent taxonomic action but had no evidence with which to refute that action, I believe I should insist that the author reconsider his or her position, because that author is not an expert in taxonomic matters. I do not want to continue the use of what many may consider "outdated" nomenclature following the publication in a peer-reviewed journal of a taxonomic revision. If, at a later date, the consensus among taxonomists is that the older nomenclature was indeed the more correct reflection of the true relationships among the organisms, then that revised nomenclature should be used once again. Finally, if the author still insisted on using the "outdated" names, I should not interfere as I said I would in my previous article.

New Instructions

New and more detailed instructions to authors for the preparation of manuscripts have been posted on the TCS web site (<http://www.lam.mus.ca.us/~tcs/JCB.html>). The expanded instructions cover more topics in much greater detail than is possible in the Information for Contributors, which is printed on the inside back cover of the journal. The instructions are not as detailed as those offered by some other journals, but they are sufficient to help authors for now. They may be expanded or modified in the future, so please refer to the site each time you prepare a manuscript for submission to JCB. The instructions reflect guidelines supplied by our printer, Allen Press, Inc., for the submission of electronic text, table, and figure files. Those guidelines introduce

important differences from previous instructions. For example, scientific names of genera and species should now be italicized instead of underlined, because when the electronic text file is translated into the proprietary language used by the printer's typesetting machine, character formatting is retained; however, page-appearance formatting (e.g., margins, paragraph formatting, etc.) is not retained. Display equations are not translated but are typeset by hand. Therefore, they should be printed on the hard copy but should not be retained in the final electronic file; equation callouts should be put in their place (e.g., "equation 1 here"). The electronic file for text and tables should be submitted in the Rich Text Format (rtf), not in the proprietary format of the word processor used. The file names should contain the manuscript number for proper identification.

The instructions for the submission of electronic figure files are very complex, and nothing less will be accepted. One of the more important instructions (from the printer) states that any text added to the figure electronically must be in Postscript type, not True Type or bitmap type, and the Postscript printer- and corresponding screen-type files must be submitted along with the image files. Also, the size of all figures submitted electronically must be approved by the Editor in advance of submission.

With the posting of these detailed instructions and their adherence by authors, we should realize faster turnaround times from the printer, fewer typesetting mistakes, and lower costs of publishing the journal.

The Cost of Publishing JCB

The Crustacean Society charges a page charge of \$60 per printed page for each article published in JCB to help defray the cost of publication. Recently, however, the true cost to the society for printing, mailing, and the storage of back issues has been as high as \$95 per page. The cost fluctuates from issue to issue,



depending on several factors, but it still is higher than the page charges that authors are asked to pay. It is important to the financial well being of the society that each author should try to pay the full page charges for an article, if possible. If not, the article should be as concisely written as possible in order to reduce the length.

Page Proofs

When your manuscript is accepted and set into type, the printer will send you a set of proofs of your article. The proofread and corrected proofs should be returned within 48 hours of receipt to the editorial office of JCB, not to the printer. Too many authors have ignored the instructions sent to them with the proofs and have returned them to the printer, incurring a delay in the publication process. The Editor must transfer all corrections or alterations marked by the author to a master set of proofs, which are then returned to the printer. The printer does not work directly from the corrected proofs marked by the author. It is imperative that proofs be returned to the Editor as soon as possible so no delay is incurred in the publishing schedule. Your cooperation will be greatly appreciated.

New Procedure

I am trying to institute a new procedure for the initial processing of manuscripts, which should improve the quality of the journal. To date, the Editor has been solely responsible for the peer-review process. This procedure has limitations, because no one person can be expert in all subject areas or know who the best potential reviewers are for some subjects. (Even Arthur Humes admitted to me that he was unable to understand some manuscripts.) In the future, I hope to assemble an expert panel of associate editors who will be responsible for conducting the peer-review process for manuscripts in each of their respective areas of expertise. Currently, the Associate Editors and I are refining the subject areas to be used and the procedure that will incorporate this process. Once we define the subjects, we will solicit people who are experienced

in each who may be willing to be responsible for sending manuscripts on that subject for review and advising the Editor concerning the merits of each manuscript. Already, three current Associate Editors have volunteered to be responsible for the subjects parasitology, biochemistry, and decapod systematics.

There are advantages to being an Associate Editor in charge of reviews. You will read the latest research on a topic before it is published, which may help you in your own research. Hopefully, once the subjects are defined, more carcinologists will volunteer their time to the journal in this capacity.

Change of Associate Editors

I have asked the current Associate Editors to retain their positions and help me at least until the new editorial procedure takes effect. Unfortunately, one has asked

to be relieved of the responsibility because of the press of editorial duties with other journals. I thank Dr. Shin-ichi Uye for the several years spent advising Dr. Humes and me on editorial matters concerning the journal.

It is with great pleasure that I welcome Dr. Frank W. Truesdale as the newest Associate Editor of JCB. Frank has considerable experience in technical writing and editing and will be a great help to the journal during this transition phase. He has already conducted a research of the papers published in JCB over the past several years to select a preliminary list of subject areas for consideration in the new peer-review process. Thank you, Frank, for agreeing to assume this task.

Respectfully submitted,
David K. Camp

Raymond B. Manning Fund

A number of colleagues have expressed interest in making a contribution to honor the memory of Raymond B. Manning. It was Ray's wish, and the Manning family has requested, that any contributions be made to a memorial fund in the Museum where he worked. Here are the details on the fund, and how to contribute.

Title of Fund

Raymond B. Manning Crustacean Research & Fellowship Fund.

Purpose

The fund is to support collection-based research on decapods and stomatopods by visiting scholars or fellows at the National Museum of Natural History, Smithsonian Institution.

How to Contribute

Make a check or international money order in US dollars payable to

"Smithsonian Institution," and indicate on the remarks area of the check or money order that your contribution is for the "Manning Fund." Mail your contribution to:

Rafael Lemaitre
Department of Invertebrate Zoology
National Museum of Natural History
Smithsonian Institution
Washington, DC 20560-0163 USA

Your will receive a letter of acknowledgement.



Crustacean Meetings

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

**Melbourne Victoria Australia
9-13 July 2001**

University of Melbourne

The website is now open for registration of expressions of interest:

[http://www.unihouse.org.au/
ICC5/index.htm](http://www.unihouse.org.au/ICC5/index.htm)

For those of you with limited access to the web here is a summary of the contents.

A week has been scheduled for the meeting, enough time to share ideas, meet colleagues and explore parts of Melbourne. The Congress will incorporate the annual 'Summer' meeting of The Crustacean Society. I urge you to think early about coming to Australia. It may be on the other side of the Earth from you and although flights are frequent many cheap fares go early.

Between now and July 2001 the Congress website will be updated at frequent intervals. I invite you to register an interest in the congress.

Program

The committee already has offers of special symposia but more are possible. These have been mooted so far:

The Third Crustacean Larval Conference (convenor Paul Clark, pfc@nhm.ac.uk)
Symposium on the systematics and biology of the Anomura (convenors Rafael Lemaitre, lemaitre.rafael@nmnh.si.edu, and Christopher C. Tudge, tudge.christopher@nmnh.si.edu)

Copepods as colonizers and invaders (convenor Geoff Boxshall, g.boxshall@nhm.ac.uk)

Ecotoxicology of crustaceans (convenor Malcolm Jones, M.Jones@plymouth.ac.uk)

The impact of fishing on communities (convenor Les Watling, watling@maine.maine.edu)

Burrowing crustaceans (convenor Fiona Bird, f.bird@zoo.latrobe.edu.au)

Biology of crustacean symbioses (convenor Peter Castro, pcastro@csupomona.edu)

The unity of the Peracarida (convenor Buz Wilson, buzw@amsg.austmus.gov.au)

Molecular systematics and taxonomy (convenor Chris Austin, cherax@deakin.edu.au)

The biology and management of exploited crustaceans (convenors Brad Mitchell and Andrew Levings, bradm@deakin.edu.au & ahl@deakin.edu.au)

Tours

Pre-Conference Tour to Lizard Island, Great Barrier Reef (contact Dr. Penny Berents, pennyb@austmus.gov.au)

Post Conference Tour (4 days) - Grampians National Park, Victoria's Lake District and Great Ocean Road

Accommodation

University of Melbourne's student residential college, close to the campus. Breakfast included in the A\$50 (US\$32) daily cost. Hotels and B&Bs in the area also provide accommodation of all standards.

Fee

A\$400 (about US\$260) will include a reception, book of abstracts, congress proceedings, plus tea and coffee and lunches during the sessions. A reduced price for students of two-thirds of regular fee will be offered.

Organising Committee

Gary Poore, Environment Program, Museum Victoria, Melbourne

(Chairman)

Chris Austin, School of Aquatic Sciences and Natural Resources, Deakin University, Warrnambool

Fiona Bird, Department of Zoology, La Trobe University, Bundoora

David Hobday, Marine and Freshwater Resources Laboratory, Queenscliff

David Macmillan, Department of Zoology, University of Melbourne, Parkville

Richard Marchant, Environment Program, Museum Victoria, Melbourne

Expressions of Interest

If you need a paper copy of the expression of interest form write to:

The Fifth International Crustacean Congress, University Conference Management Service, University House, The University of Melbourne, Victoria 3010 Australia

Fourth International Large Branchiopod Symposium (ILBS-4)

**La Paz, Baja California Sur, México
23-27 January 2001**

First Circular and Call for Papers

General Information

The Centro de Investigaciones Biológicas del Noroeste, S.C. (CIBNOR) has the pleasure of inviting you to the Fourth International Large Branchiopod Symposium to be held in La Paz, Baja California Sur, México from Tuesday through Saturday, 23-27 January 2001. The meeting will be held at the CIBNOR facilities located twenty minutes from the international airport and forty minutes from downtown La Paz.

Call for Papers

Papers on any aspect of large branchiopod biology, ecology, conservation, and



aquaculture are solicited. The deadline to register your participation is 30 August 2000, and for receipt of abstracts is 1 November 2000. The scientific program committee will select and organize papers in appropriate sessions based on the content of abstracts. The symposium language will be English.

General Sessions

Oral presentations will be limited to 25 minutes including questions. Equipment to show slides (2" x 2" 35mm), overhead transparencies, and a digital projector for use with computers will be available.

Poster Session

Posters will be mounted on 1.15 x 1.15 m posterboard. Presenters are required to be available during the special poster session to discuss their poster.

Requirements for Abstracts Submission by Standard Mail

- 1) One printed copy of the abstract in the format specified below.
- 2) One 3.5" IBM-compatible diskette containing two files of your abstract—one in Word Perfect 6.1 or Word 6.0 or 97, and the other as RTF or ASCII text.
- 3) One completed copy of the registration form.

Requirements for Abstracts Submission by E-mail

- 1) In the body of the E-mail message, begin by including a completed registration form.
- 2) Following the registration form information, insert a copy of your abstract directly into the body of the message.
- 3) Include a second copy of your abstract as an attached file in Word Perfect 6.1 or Word 6.0 or 97.

Preparation of Abstract

Read the following information carefully and follow the formatting requirements exactly. Type the title first. After the title,

type the first author's name followed by the mailing address, then any additional author names and addresses in similar fashion. Use all caps for all author names and bold font for the author who will present the paper. Next type the body of your abstract, which should be one paragraph of no more than 300 words, single spaced throughout. Leave only a single blank line between the title, authors' name and addresses, and body of the abstract. Use italic type only for scientific names. Spell out whole numbers <10 unless accompanied by a unit (e.g., 3 cm or 1%). Use metric units only. Use the following abbreviations without spelling them out: h, min, sec, yr, mo, wk, d, km, cm, mm. Use continental dating (e.g., 10 July 1975) and the 24-h clock (e.g. 1300).

Proceedings Volume

Papers presented in the ILBS-4 will be considered to form a special volume of the journal *Hydrobiologia*, and a book of the series "Developments in Hydrobiology," Series editor H.J. Dumont, Kluwer Academic Publishers. The deadline to submit the manuscripts is 26 January 2001.

Accommodations

There are hotels offering special single, double, or triple occupancy rates for the ILBS-4 attendees. Rates range from \$50-60 US Dlls for five star hotels, \$40-55 US Dlls for four star hotels. More economical hotels are also available. Details about hotels will be given in the second circular.

ILBS-4 Registration Form

- 1) Name of corresponding author:
- 2) Institution:
- 3) Address:
- 4) City:
- 5) State or Province:
- 6) Zip or Postal code:
- 7) Country:
- 8) Phone or Fax:
- 9) E-mail:
- 10) Abstract title:
- 11) Name of paper presenter:

- 12) Presentation category (Oral or Poster):
- 13) Projector required (35 mm slide, Overhead, or Digital):

Registration Fee

ILBS-4 inscription: \$120 US Dlls per person (\$60 US Dlls students)

Second Circular

The second circular will be sent by September 2000 only to those who have sent back the registration form with pertinent information.

Send your registration form information to:

Dr. Alejandro M. Maeda-Martínez
CIBNOR, Apdo. Postal 128 La Paz,
B.C.S. 23000 México Phone: (52) (112)
5.36.33; Fax: (52)(112) 5.36.25 (E-mail:
ilbs4@cibnor.mx)

Scientific Program Committee

Dr. Alejandro M. Maeda-Martínez,
Dr. Gopal Murugan, Dr. Denton Belk

5th International Symposium on the Biology of Terrestrial Isopods

*Oniscidea rolling into
the new millenium*

**Irakleio, Crete, Greece
19-23 May 2001**

Hosted by the Natural History
Museum of Crete

First Circular

Four years after Haifa, the next international Symposium on the Biology of Terrestrial Isopods (Oniscidea) is going to take place in Greece (Irakleio, Crete) between 19 and 23 of May 2001.

A First Call for this Symposium was published several months ago. Colleagues from all over the world have already

expressed their interest in participating, giving the first signs for a productive and interesting meeting.

Scientific Matters

Following the successful tradition of the four previous symposia, all aspects of the biology of Oniscidea will be accepted. Oral presentations and posters will be organized according to subject, while general interest lectures are going to be given in plenary. Oral communications will have 20 minutes for presentation and discussion, while posters are going to be on exhibit for a time period dependent on available space. Details on the poster format will be given in the next circular. All abstracts will be reviewed by the Organizing Committee. Notification on acceptance will be sent to participants no later than two months after receiving the abstract. The proceedings are going to be published as a special volume of *Crustaceana*.

Transportation

Irakleio is connected via airlines to Athens and several major European cities, and also by sea with Pireas (Athens). At the time of the congress the tourist period will have started, so please arrange your flights early. Access to the congress site from the airport is easy by taxi (~4000 drs). Buses also run to the center of the city, from where other lines can take you to the congress site without much delay. Of course, if we know your arrival time, someone is going to be at the airport waiting for you.

Accommodation

Accommodation will be at local hotels, near the congress site. Please, contact our travel agency, "**Holiday Makers**" (tel: +3081 232921, +3081 321459, fax: +3081 324269), for making reservations at the lowest prices. We shall try to keep all participants at nearby hotels, so as to facilitate contact and transportation. Hotel prices are available upon request by the travel agency, and will be published on the web page too. Generally, they range

between USD 45 - 65 per night (single room).

Other Social Matters

Late spring is a pleasant season for Crete. It is warm (but not too warm!), without too many tourists, and with an abundance of non-human life forms ! A one-day post-congress tour is going to be dedicated to every kind of collecting (isopod, sun, archaeological and gastronomic experiences etc.). We shall try to organize a longer post-congress tour, depending on registrations. Of course, other social events, associated with traditional Greek (and more specifically, Cretan) hospitality and spirit (in both meanings of the word), will make this symposium unforgettable for all participants. More details in the second circular, but do check our web-site from time to time for updated information.

Registration

You all know that isopodology is not a wealthy enterprise, so it would be extremely helpful to send your registration fee the soonest possible. Registration fee covers full participation in the congress (including some promising social events), the book of abstracts and the proceedings volume. The mid-congress excursion is not included, unless we can find some very generous sponsorship. Student status should be confirmed by a letter from the host institution or the supervisor.

Registration Fees

Before January 2001	
Full:	\$160
Student:	\$80
Accompanying persons:	\$50
After January 2001	
Full:	\$200
Student:	\$100
Accompanying persons:	\$70

The methods of payment are restricted to bank check and cash transfer. Bank checks should be made payable to **Spyros Sfendourakis** (the mentioning of the symposium is not necessary),

while cash transfers should be made to:

Account number: 3228/171/488 Agricultural Bank of Greece S.A., Main Branch, Athens, 4, Panepistimiou Street, 10671 Athens.

PLEASE type CORRECTLY the name on the check and the Acct. No. plus Bank address on the transfer documents.

Deadlines

All colleagues wanting to participate at the congress should fill out the electronic form at the symposium's web-page (see below) **before July 2000**. Those who do not have internet access should contact the Secretariat for a form.

Also, all colleagues planning to present a communication (oral or poster) should send their **registration fee and abstract before November 2000**.

Some Notes on Abstracts

Abstract format is not important, but in any case it should not exceed one A4 page (12pts characters). You can use either MS-Word 7.0 (or lower) or .txt files. Mac files should be avoided, unless there is no other option. Electronic submission is always better, and e-mail attachments the best (at least for the editors). Please, mention your name and file type on the floppy disk, and names and addresses of all authors under the abstract title.

The 2nd circular, with detailed program and information will be available next fall.

Web site (thanks to Yves Caubet, Martin Zimmer and Petros Lymberakis)

All of you with access to the Internet, please check regularly one of the following addresses for new information on the Symposium (including also an electronic registration form):

<http://t-isopods.univ-poitiers.fr/>

or

<http://www.uni-duesseldorf.de/MathNat/Zoologie/isopoda.htm>

or

<http://www.nhmc.uoc.gr/>



Secretariat:

Dr. S. Sfendourakis
 Zoological Museum, Dept. of Biology
 Univ. of Athens, GR-15784 Athens
 Greece
 Tel/Fax: +301 7274249
 E-mail: sfendo@biology.db.uoa.gr

Important note: Electronic communications are always preferable.

14th International Symposium on Ostracoda

*Towards the New Ostracodology
in the 21st Century*

**Shizuoka University, Japan
1-4 August 2001**

The organising committee is planning the following two session:

1. Earth Environments and Dynamics of Ostracoda

This theme will concentrate upon evaluating the potential of applying Ostracoda to study of long- and short-term environmental changes caused by either geological events or human activities.

2. Evolution and Diversity of Ostracoda

This theme will focus on the latest developments in reconstructing phylogeny, in understanding the origin of Ostracoda and the relationship of Ostracoda to other crustaceans, and in the taxonomy, ontogeny and ecology of Ostracoda.

Participants are invited to present scientific papers in the sessions either as oral presentations or posters. Those wishing to present papers must submit an abstract on or before December 10, 2000. Some renowned researchers (geochemists, micro-paleontologists, and crustacean researchers) will be invited as keynote speakers. The contributions of the sessions will be edited and published in international journals in the geological and biological sciences.

Field Excursions in Planning

- Paleozoic Ostracoda in China
- Mesozoic freshwater Ostracoda in Korea
- Recent and Pleistocene subtropical Ostracoda in Okinawa, Japan
- Recent and Pleistocene temperate boreal Ostracoda in Hokuriku (Japan Sea coast)
- Miocene subtropical/temperate Ostracoda in Tochigi Prefecture (Central Japan)
- Boreal marine and freshwater Ostracoda in Hokkaido, Japan

The official language of the meeting will be English. Suggestions for workshops are most welcome. We are also planning a cultural programme and sight-seeing tour for accompanying persons. The organising committee will make accommodation arrangements for the participants in a private high school dormitory near Shizuoka University and in various hotels in Shizuoka City.

Key Dates

- September, 2000 The Second Circular (registration fee for the meeting and field excursions, accommodation guide, format for the abstract)
- December 10, 2000 Deadline for the abstract
- March, 2001 Deadline of application of the meeting/excursions and payment of registration/deposits fees
- May, 2001 The Third Circular (programme, list of participants)

To register your interest in attending this meeting please reply, giving your name, address, phone/fax and e-mail, to the following address as soon as possible:

By Post to: ISO2001 Department of Biology and Geosciences Shizuoka University Oya 836, Shizuoka 422-8529 Japan; By Fax to: (81) 54 238 0491 [81 is the Japan country code]; By E-mail to: iso2001@se-geomail.sci.shizuoka.ac.jp

International Commemorative Symposium 70th Anniversary of the Japanese Society of Fisheries Science

**Pacifico Convention Plaza Yokohama
Yokohama, Japan
1-5 October 2001**

This international symposium will be organized by the Japanese Society of Fisheries Science in commemoration of its 70th anniversary and will address the roles and contribution of fisheries and marine sciences in the next century. The symposium will consist of plenary sessions including keynote addresses by invited speakers, oral presentations, poster sessions and workshops. Covered subjects include Fisheries Biology and Management, Aquatic Environment and its Conservation, Aquaculture, Aquatic Biology and Genetics, Post-harvest Science and Technology, Fishery Economics and Distribution, Fisheries Engineering, International Cooperation Activities, and Education System in Fisheries and Marine Science. There will also be excursions to production sites and research centers, and exhibits featuring technical and informative aspects of on fisheries, aquaculture, marine ranching, food processing and marketing, as well as on oceanographic research. The deadline for submission of abstracts is September 30, 2000. For more information, please see our Web Page at www.symp70yr.or.jp or contact the secretariat of the symposium:

Dr. Toshiaki Ohshima
 Tokyo University of Fisheries
 Konan 4-5-7, Minato
 Tokyo 108-8477, Japan
 Tel: +81-3-5463-0613
 Fax: +81-3-5463-0627
 E-mail: symp70yr@tokyo-u-fish.ac.jp.



Publication News

Crustacea Guide of the World

The following book has been recently published that should be of interest to all those interested in crustaceans.

Crustacea Guide of the World, by Helmut Debelius. 1999. IKAN - Unterwasserarchiv, Frankfurt, Germany. 322 pp. \$44.95 Hardcover (US\$).

From the front cover depicting the spiny lobster *Justitia longimanus*, the amphipod *Epimeria rubriques*, the stomatopod *Odontodactylus scyllarus*, the lobster *Enoplometopus debelius*, the hermit crab *Dardanus calidus* and the rock shrimp *Leander plumosus* to the back cover featuring the round crab *Neoliomera insularis*, this book is loaded with more than 1,000 excellent photographs of crustaceans. Nearly all of the photos are of animals in their natural habitats.

The book begins with a forward by Lipke B. Holthuis who points out the one major flaw of this work, that the author forgot to add "Volume I" to the title. As Prof. Holthuis concludes, "the present book whets the appetite for more." Perhaps a related and second minor criticism is that the book should have a secondary title indicating its heavy emphasis on the Order Decapoda. The bulk of the book (through page 265), deals with this taxon, and this section is divided into two primary parts, the Atlantic decapods and the Indo-Pacific decapods. However, representatives of decapods (and other taxa) appear from additional locales around the world, including the Caribbean Sea, Mediterranean Sea, Red Sea, and Antarctica. Following the decapods are brief sections on the Euphausiacea (1 page), Stomatopoda (26 pages), Amphipoda (7 pages), Isopoda (4 pages), Mysidacea (2 pages), Cirripedia (2 pages), and Copepoda (1 page). Although not crustaceans, a small 5-page section on sea spiders (Pycnogonida) concludes the book.

The scientific name is given for each species pictured, and this is accompanied by a common or popular name if one is known. Following this is information on the size of the species, its geographic distribution, and notes on its general biology and ecology.

In addition to the above, this book contains 25 "picture stories" scattered throughout that depict various aspects of the lives of many of these remarkable animals. Examples include: "*In Cold Blood*," in which Peter Wirtz discusses the mating rituals of arrow crabs; "*Life Beneath the Pack Ice*," where Armin Maywald provides stories and photos of Antarctic amphipods and isopods; "*Gunmen of the Sea*," or stories on snapping shrimps by Arthur Anker; "*Strip-Tease in 3D*," a recollection in photos and narrative of lobster moulting by underwater cinematographer Howard Hall; "*Commercial Value and Usage of Crustaceans*," reported by Michael Türkay; "*Piggyback Riders*," with beautiful photos by Chris Newbert of a juvenile shrimp and a phyllosoma larva riding atop medusae; "*Invasion of the Red Crabs*," where Ralf Kiefner reports on the annual spectacle unique to Christmas Island; and "*Crustacean Childhood*," in which Arthur Anker presents an introduction to crustacean larval development with photos by Roger Steene.

At \$45 US (or < 5 cents per photo), *Crustacea Guide of the World* is a bargain. Although available from several sources, the book can be ordered from Sea Challengers Natural History Books in Danville, California. To order or to acquire more details on this or other books, please visit the website at www.seachallengers.com, or direct inquiries to:

Sea Challengers
Natural History Books, Etc.
35 Versailles Court
Danville, CA 94506-4454 USA
Voice: (925) 327-7750
Fax: (925) 736-8982
E-mail: info@seachallengers.com

Pacific Mexico Crustacea Books Available

The Laboratory of benthic invertebrates (Marine species only!) has several available copies of the following books on the Crustacea of Pacific Mexico (all in Spanish):

Hendrickx, M.E. and J. Salgado-Barragan. 1986. Los estomatopodos (Crustacea: Hoplocarida) del Pacifico mexicano. Publ. Esp., Instituto de Ciencias del Mar y Limnologia, UNAM. 200 pp.

Hendrickx, M.E. and F.D. Estrada Navarrete. 1996. Los camarones pelagicos (Crustacea: Dendrobranchiata y Caridea) del Pacifico mexicano. CONABIO/UNAM. 157 pp.

Hendrickx, M.E. 1997. Los cangrejos braquiuros (Crustacea: Brachyura: Dromiidae hasta Leucosiidae) del Pacifico mexicano. CONABIO/UNAM. 178 pp.

Another issue will be available soon:

Hendrickx, M.E. 1999. Los cangrejos braquiuros (Crustacea: Brachyura: Majoidea y Parthenopoidea) del Pacifico mexicano. 274 pp, Plates 1-13.

Each of these books contains keys to families, genera and species, figures of species and data related to geographic distribution, habitats etc. Needless to say that many of these species also occur in other areas of the east Pacific and elsewhere.

People interested in one or several of these books should contact Michel E. Hendrickx through his e-mail address below. Cost includes airmail (book rate) or express mail, plus a flat fee of 5 US\$ per book for handling and packing. Cost for Libraries includes only mail.

Michel E. Hendrickx
michel@ola.icmyl.unam.mx
or
michel@mar.icmyl.unam.mx



Amphipacifica

Publication of the journal of aquatic invertebrate systematics, *Amphipacifica*, is being restarted after an interruption of nearly three years. The first new issue (Vol. II, No. 4) may appear as early as June of this year.

Amphipacifica publishes monographic treatments that are overly large or bulky (50-100 printed pages) for acceptance in standard taxonomic journals. It emphasizes studies on aquatic animals of the faunistically rich and geologically ancient North American Pacific coastal marine region. The scope covers the invertebrate taxa, including parasites, and aspects of aquatic vertebrate animals that may involve systematics, ecology and behaviour and extends to both marine and fresh-water faunas of other regions.

Manuscript submission requirements are similar to those of the Canadian Journal of Fisheries and Aquatic Sciences, Ottawa. The journal is scheduled to appear quarterly, with an initial run of 250-300 copies per issue, each of about 150 pages, and a volume (yearly) total of 600+ pages. The printed page size is 8.5 X 11 inches (~22 X 27.5 cm). Paper quality accommodates line cuts and half tones at 600 d.p.i., and a limited number of colour plates at author cost. Manuscripts are to be submitted in "camera-ready" computerized format (IBM- or MAC-compatible diskettes), and also in hard copy, that have previously been refereed (name to be supplied) and text-edited at the author's instigation. Suitability of manuscripts, based on content and adherence to submission regulations, will be decided by the journal's Advisory Board.

Volume II, No. 4 can be purchased for \$12.50 Canadian or \$10.00 US. Beginning with Volume III (4 issues, 2000-2001) and renewable on a per-volume basis, institutional and individual subscriptions are \$50.00 (CAN) or \$40.00 (US) per volume (including surface postage). Author charges are provisionally \$25.00 per printed page (including plates).

Editorial Board. Dr. E. L. Bousfield, Ottawa, ON, Editor and Managing Editor; Dr. David G. Cook, Greely, ON, Technical Editor.

For further information, please address all correspondence to:

Dr. E. L. Bousfield
710-1275 Richmond Rd.
Ottawa, ON, CANADA K2B 8E3
(E-mail: elbousf@magma.ca)

ICC-4 Publications

We wish to announce the completion of the publication program of the Fourth International Crustacean Congress, which occurred in Amsterdam, July 1998.

The second and last volume of the proceedings has now appeared as volume 12 of the series Crustacean Issues:

von Vaupel Klein, J.C., & F.R. Schram (eds.) 2000. The Biodiversity Crisis and Crustacea. A.A. Balkema, Rotterdam. 848 pp.

All congress participants who paid the full registration fee will receive this book in due course, as they did the first volume of proceedings published last year. If non-participants wish to order a copy, they can do so directly from the publisher (EUR 95.00 / US \$110.00 / GB £67)

A.A. Balkema, Publishers
Post Box 1675
3000 BR Rotterdam, The Netherlands
balkema@balkema.nl

In addition, the proceedings of the Third International Workshop on Sea Lice, which also occurred within the congress program, has been published.

Boxshall, G.A., & M. Costello. 2000. The Biology and Control of Sea Lice. in, Contributions to Zoology 69(1/2).

Anyone who wishes to order a copy for themselves can do so directly from the publisher (cost NLG 125 / US \$62.50):

SPB Academic Publ.
Post Box 97747
2509 GC Den Haag, Netherland
kugler.spb@wxs.nl

Jan H. Stock Memorial Issue

On 17 February 1997, Jan H. Stock passed away. Having been one of the founders of *Crustaceana* and Secretary of the Editorial Board, as well as Editor for many years, we commemorate his heritage with a special edition of the journal: the JAN H. STOCK MEMORIAL ISSUE, which appeared as *Crustaceana* 72(8) in November 1999. Next to several essays lingering on Jan Stock's personality, his contribution to various subdisciplines of biology, and his contributions to carcinology, this issue features 19 papers resulting from the special Jan Stock Memorial Symposium, held in the course of the Fourth International Crustacean Congress, Amsterdam, July 1998. In four sections (i.e., Groundwater, Ancient Lakes, Anchialine Caves, Deep Sea) friends and colleagues of Jan presented papers along the lines of research he was so familiar with and to which he made such huge, fundamental contributions when in active research. Especially for this issue, D.L. Danielopol (Mondsee, Austria) and K. Martens (Brussels, Belgium) acted as co-editors, so as to ensure the most appropriate composition of this commemorative edition. We all, the invited editors, the editorial board and the publisher are convinced that a superb volume has resulted and in order to share this with as many of Jan's friends and colleagues as possible, as well as with all interested carcinologists, this issue of more than 280 pages is available separately at the reduced price of NLG 125.00 (approx. US\$ 60.00) plus P&P.

The contents include contributions authored or co-authored by (in order of appearance): D.L. Danielopol, K. Martens, F.R. Schram, H.P. Wagner, B. Sket, S. Koenemann, J.R. Holsinger, R. Vonk, J. Notenboom, G.J. Magniez, R. Rouch, C. Bou, P. Pospisil, M. Yacoubi-Khebiza, N. Coineau, C. Boutin, F. de Bovée, I. Schön, D. Yu. Sherbakov, R.M. Kamal'tynov, O.B. Ogarkov, R. Väinölä, J. Vainio, E. Verheyen, G.A. Boxshall, D. Jaume, J. Yager, J.H. Carpenter, D. van Harten, D.J. Horne and G.D.F. Wilson.

If you wish to obtain this special issue, please contact the publisher at the address below.

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Please contact the Publisher below for additional information, and make sure to mention that you are a TCS member in order to receive the 20% discount off the above prices.

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Marine Parasitic Crustacea CD-ROM

Introducing...An Exploration of Marine
Parasitic Crustacea: An Interactive
CD-ROM

Presented by Timothy M. Goater

This learning resource utilizes the latest in multimedia technology to enable students and teachers of parasitology and invertebrate zoology to interact in a self-paced, fun and stimulating way with the bizarre and fascinating world of the parasitic Arthropoda.

An overview is provided of the biology of terrestrial arthropods, including the parasitoids, ectoparasitic insects and mites. This valuable learning tool incorporates interactive detailed text content and audio recordings with unique and spectacular videomicroscopy footage and color photography. Focus is on the biology of parasitic crustaceans of invertebrates and fish of coastal marine waters of British Columbia, Canada, including the parasitic Copepoda, Cirripedia (Rhizocephala), Isopoda and Amphipoda. Highlights of the CD-ROM include an interview with Dr. Z. Kabata, the world-renowned expert of parasitic Copepoda. His beautifully detailed line drawings of parasitic copepods are a valuable addition to the presentation. An interactive review quiz, glossary, taxonomic summary and index are also featured.

This learning resource should be a valuable option for crustacean biologists interested in learning or teaching about the ecology and fascinating morphological and life history diversity to be encountered among the parasitic Crustacea.

For additional information, please check out the website below.

<http://mala.bc.ca/parasite>

Submitted by Tim Goater

Crustacea Books Available from Balkema

The following books on Crustacea are available from A.A. Balkema Publishers at the special 20% TCS discount.

Burukovskii, R.N. 1983. Key to Shrimps and Lobsters [Russian translation series 5]. Cost, EUR 75.00 / US \$88.00 / GB £53.

Villalobos, A. 1983. Crayfishes of Mexico – Crustacea: Decapoda. 1983. 288 pp. Cost, EUR 95.00 / US \$110.00 / GB £67

Bronshtein, Z.S. 1988. Fresh-water Ostracoda – Fauna of the USSR: Crustacean, Vol. II, No. I [Russian translation series 60]. 485 pp. Cost, EUR 95.00 / US \$110.00 / GB £67.

McKenzie, K.G., & P.J. Jones (eds.). 1993. Ostracoda in the Earth and Life Sciences – Proceedings of the 11th International Symposium, Warrnambool, July 1991. 740 pp. Cost, EUR 143.00 / US \$168.00 / GB £101.

Riha, J. (ed.). 1995. Ostracoda and Biostratigraphy – Proceedings of the 12th International Symposium, Prague, 26-30 July 1994. 472 pp. Cost, EUR 95.00 / US \$110.00 / GB £67.

Freshwater Crabs

IRD Editions announces publication of the following book in the series, Fauna et Flore Tropicales:

Cumberlidge, N. 1999. The Freshwater Crabs of West Africa. 382 pp. [ISBN No. 2-7099-1433-6]. Cost, 140 F, 21.24 EUR.

The area of West Africa covered by this book includes 18 countries from Mauritania to Cameroon and Bioko (Equatorial Guinea). The freshwater crab fauna of the region comprises at least 32 species in seven genera and two families. This work brings together recent contributions to the taxonomy, distribution, and ecology of the West African freshwater crabs and presents new information on phylogeny and biogeography (in 13 Tables, 69 pages of Figures, and 4 Plates). Four new species are added to the faunal list of the region, and a new family, the Platyhelphusidae Colosi, 1920 is established.

To order a copy of this book or to receive additional information, please contact:

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Biological Resources

Status and Trends of the Nation's Biological Resources. Edited and published by the U.S. Geological Survey. 1998. 964 pp. Illus. Paperback \$98.

Produced by the U.S. Geological Survey's Biological Resources Division, this peer-reviewed, full-color, two-volume report is the first large-scale assessment of the health, status and trends of our plants, animals and ecosystems. It presents a baseline picture of the nation's biological resources in the late twentieth century, with contributions from nearly 200 authors. The report is written in non-technical language making it useful for policy makers and interested

citizens, as well as natural resource professionals.

Volume One covers seven factors affecting biological resources nationwide: natural processes, land use, water use, climate change, non-indigenous species, environmental contaminants and harvest.

Volume Two describes the status and trends of the biological resources in different regions of the country, the ecosystems in that region and how these ecosystems have been affected by the factors listed in Volume One. The regions covered are Alaska, California, Caribbean Islands, Coastal Louisiana, Grasslands, Great Lakes, Great Basin-Mojave Desert, Hawaiian Islands, Mississippi River, Northeast, Pacific Northwest, Rocky Mountains, Southeast and Southwest.

The second volume also contains a special chapter prepared by the National Marine Fisheries Service describing the systems, status and trends of resources in the marine environment.

To order, please call the United States Government Printing Office at (202) 512-1800.

Upcoming TCS Meeting Schedule



Summer 2000 TCS Meeting
26-30 June 2000
Puerto Vallarta, Mexico

The 2000 Summer Meeting will be held in Puerto Vallarta, Mexico. See the meeting web page (www.ibiologia.unam.mx/TCS) or the November 1999 issue of the *Ecdysiast* (Vol. 18, No. 2) for details.

Winter 2001 TCS Meeting
3-7 January 2001
Chicago, Illinois, USA

The 2001 Winter Meeting of TCS will be held in Chicago, Illinois in conjunction with SICB.

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

The 2001 Summer Meeting of TCS will be held in Melbourne, Australia in conjunction with Fifth International Crustacean Conference. See the ICC5 announcement on page 9 of this newsletter for additional information.

Winter 2002 TCS Meeting
6-10 January 2002
Anaheim, California, USA

The 2002 Winter Meeting of TCS will be held in Anaheim, California in conjunction with SICB.