



THE *ECDYSIAST*

Newsletter of the Crustacean Society

Volume 15, Number 1

May 1996

Message from the President

With this issue of the *Ecdysiast*, you'll find that a number of changes have occurred within The Crustacean Society. Probably most noticeable is that the *Ecdysiast* has a new look and a new editor. After ten years of service to TCS as editor of the newsletter, Ray Bauer decided it was time to step down. Certainly he and his institution, the University of Southwestern Louisiana, are to be commended for the excellent job and support to TCS over the years. The new editor is Tim Stebbins. Tim has been a long-time member of TCS having joined as a Master's Student at Humboldt State University in 1981. He subsequently completed his doctoral research in isopod ecology at the University of Southern California under Rick Brusca. After a stint at the Natural History Museum of L.A. County, he accepted his current position as a marine biologist with the Ocean Monitoring Program of the City of San Diego. Tim continues his research in isopod ecology in his current position and also studies the effects of pollution on marine invertebrates. He welcomes information on research studies, upcoming meetings, regional updates, and all things crustacean for inclusion in the *Ecdysiast*.

In addition to Tim, there are several new officers and board members of TCS (see page 2). Les Watling passed the historic crab mallet to me at the December 1995 meeting of TCS with the American Society of Zoologists in Washington, D.C.¹ I will continue his efforts to increase participation at these joint meetings and will enlist the help

of newly elected Program Officer Tom Wolcott in this endeavor. Tom is also Secretary of ASZ, so his involvement with both societies can only work to our mutual benefit. One idea that is being considered is to organize the program into thematic sessions rather than by division or society. Under this proposal, TCS members will no longer have to choose between presenting in a TCS section or an ASZ section but will be identified as TCS members in the meeting brochure. This should give a clearer indication of the large size of TCS participation across all sections of the meeting and allow more students to compete for the TCS Best Student Paper Award. Jody Martin has taken over as President-Elect and will be assembling a slate of officers for the fall election. As mentioned later in this newsletter, he will have the task of finding nominees for Treasurer. We all know that Denton Belk will be impossible to replace, but thanks to his fiscal acumen, TCS is sound financially and he will be available to advise the newly elected Treasurer.

Newly elected governors include Elva Escobar-Briones for Latin America and Ichiro Takeuchi for Asia. I would like for them to join Dorothy Skinner (North American Governor), Pierre Noël (European Governor), and Diana Jones (Indo-Pacific Governor), in giving regular updates to the membership about activities in their

region. A large part of the Governors' responsibility is to recruit new members. One of the ways we can recruit new members is by better advertising the Society. Bill Hart of the US National Museum of Natural History has made great strides in doing that by developing a home page for TCS on the world wide web (see page 3 for more information). Another idea for recruitment is to develop informational posters that regional governors, officers and interested individuals can carry to meetings along with membership applications and examples of the JCB. We plan to have these developed over the next year.

New Home Page for The Crustacean Society

Opportunities for information exchange among carcinologists should be ample at future meetings. The July 1996 meeting of TCS in San Diego promises to be an excellent one and will be held in conjunction with the third Large Branchiopod Symposium. Marie Simovich and Michel Boudrias have put together an exciting agenda. The Second European Crustacean Conference is scheduled for September 2-6 in Liege, Belgium, followed by the 6th Colloquium Crustacea Decapoda Mediterranea in Florence, Italy from September 12-15. The next ASZ/TCS meeting will be in Albuquerque in December 1996. The annual board and business meeting will occur then as well. The winter meeting schedule will shift to early January for a meeting in Boston in 1998. The Board approved Mobile, Alabama as the site for the 1997 summer meeting. Richard Modlin of

the University of Alabama in Huntsville and Ken Heck of the Dauphin Island Lab will be hosting this meeting. The board also voted for TCS to be a co-sponsor of the International Crustacean Congress that will be held in Amsterdam in July 1998. This meeting, which will be broadly international in participation, has been designated as the TCS summer meeting for that year. I hope that you will take advantage of these excellent opportunities to meet with colleagues from around the world.

Student participation at meetings is something that each of us should encourage. The future of our field depends on the professional endeavors of students. One of the ways that TCS has chosen to reward students is by offering a Best Student Paper award. The winner of the TCS Best Student Paper award for the Washington, DC meeting is Martin Thiel of the Darling Marine Center who spoke on extended parental care in three estuarine amphipods. The Board of TCS recently approved that such an award should be offered whenever and wherever TCS sponsors a meeting. Jack O'Brien will succeed Sandra Gilchrist as Chair of the TCS Awards Committee that also will be reviewing pros and cons of the Best Paper Award in the Journal.

The e-mail directory for TCS members has finally been completed and is included as an addendum to this issue of the newsletter. Unfortunately, however, only about a sixth of the membership has responded to previous address requests. I apologize for any errors that may have been made in transcription of information. Please send corrections and additions to me at my e-mail address

(wenner@cofc.edu). I will have an errata sheet available for the next *Ecdysiast*.

As a new President, I am dependent upon suggestions and comments from the membership on ways to strengthen TCS. I hope that you will contact any of the officers, governors, or me with your ideas and opinions. Our e-mail and snail-mail addresses, as well as phone and Fax numbers, are listed in the enclosed directory.

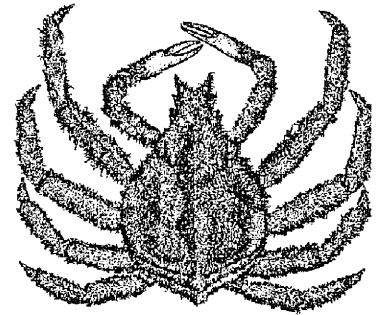
With my warmest regards,

Elizabeth Wenner
TCS President

TCS Treasurer

After serving the Society so well for so long, Dr. Denton Belk is currently serving his last term as Treasurer as he prepares to give more time to other aspects of his career. The Society is now accepting nominations for persons to assume this critical role, the first term of which would begin in January of 1997. Denton has very kindly agreed to work with the new Treasurer to assure a smooth transition.

We are hoping to find someone with highly developed organizational skills and some financial savvy, and who would be willing to devote sufficient time to ensure that this crucial part of the Society's mission is done well. As with all offices of the Crustacean Society, this is an unpaid position. Nominations (self- or otherwise) will be accepted through the end of June, and the Society will vote on the candidates by mail during the summer or early fall of 1996. Send all nominations or applications to J.W. Martin, TCS president-elect, at the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA.



Loxorhynchus crispatus
(From Brusca & Brusca, 1978)

1996 TCS Officers and Board of Governors

President: Dr. Elizabeth L. Wenner
South Carolina Marine Resources Research Institute

Editor, JCB: Dr. Arthur G. Humes
Boston University

President-Elect: Dr. Joel W. Martin
Natural History Museum of Los Angeles County

Asian Governor: Dr. Ichiro Takeuchi
University of Tokyo

Past-President: Dr. Les Watling
University of Maine

European Governor: Dr. Pierre Noël
Muséum National d'Histoire Naturelle, Paris

Secretary: Dr. Franklin H. Barnwell
University of Minnesota

Indo-Pacific Governor: Dr. Diana S. Jones
Western Australian Museum, Perth

Treasurer: Dr. Denton Belk
Our Lady of the Lake University of San Antonio

Latin American Governor: Dr. Elva G. Escobar-Briones
Instituto de Ciencias del Mar y Limnología UNAM

Program Officer: Dr. Thomas G. Wolcott
North Carolina State University

North American Governor: Dr. Dorothy M. Skinner
Oak Ridge National Laboratory

Editor, the Ecdysiast: Dr. Timothy D. Stebbins
City of San Diego

TCS Business Office: Karen Hickey
The Crustacean Society, Allen Press

Treasury Notes

Every member can help us save money and the natural resources that go into mailing out repeat renewal notices by using the renewal envelop enclosed with your August issue of the *Journal of Crustacean Biology* to mail in your payment before the end of September. This may seem like a little thing, but it is a very major problem for your society in terms of cost (several hundred dollars) and planning for the next year. Please help by doing your part.

The changes in charges for dues and subscriptions (see "Constitutional Changes" on page 5) will become effective for the 1997 membership and subscription year. The renewal notices that will go out in August will reflect these changes.

We need volunteers to serve on the Financial Committee. Please contact the Treasurer if you are interested.

Denton Belk, TCS Treasurer
840 E. Mulberry Ave.
San Antonio, TX 78212-3194 USA
Tel: (210) 732-8809
Fax: (210) 732-3943

Crust-L

CRUST-L is an unmoderated, open list with informal discussions on subjects pertaining to marine and freshwater crustaceans or related taxa/subjects. The list was formerly run by Bill Hart at the Smithsonian Institution. Due to various constraints he has asked Jeff Shields to manage the CRUST-L.

You can subscribe to the list by sending the message "SUBSCRIBE CRUST-L" to majordomo@vims.edu. Discussion messages should be submitted directly to the list at crust-l@vims.edu. If you have problems subscribing, contact Jeff Shields at jeff@vims.edu.

Please note that service for the list has changed from a Listserver format to a Majordomo format. Some features like DIGEST mode, NOMAIL mode,

and Search functions are not available in Majordomo. A FAQ file for the list may be developed. It will be announced if it becomes available.

CRUST-L is supported by the Virginia Institute of Marine Science (VIMS) located at Gloucester Point, Virginia. The list is administered by Dr. Jeffrey Shields (jeff@vims.edu), P.O. Box 1346, CBNERRVA, VIMS, Gloucester Point, VA, 23062, USA, (804) 642-7128, fax: (804) 642-7120. Please report any problems or comments to Jeff at the above e-mail address.

TCS Home Page

The Crustacean Society has a new home page on the world wide web, developed and maintained by Bill Hart of the US National Museum of Natural History. Rapidly expanding, the home page currently includes a history of the Society, membership information and application, a listing of officers with e-mail addresses, information for JCB contributors, notices of future TCS meetings, and links to other crustacean resources on the internet. Hopefully, the *Ecdysiast* will soon be on line as well. Questions or comments may be addressed to Bill Hart at mnhiv008@sivm.si.edu. Meanwhile, check the page periodically for the latest information on TCS. The address is:

<http://www.nmnh.si.edu/crustsoc/>

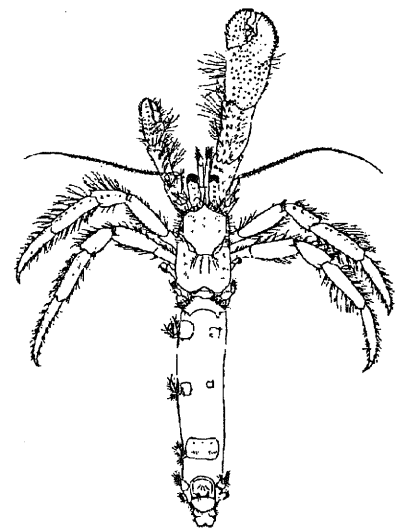
TCS Award

The Best Student Paper Award at the December 1995 meeting in Washington, D.C. went to Martin Thiel from the Darling Marine Center of the University of Maine. Congratulations are due Martin for a job well done on his paper entitled "Extended Parental Care in Three Estuarine Amphipods — 'Babies Don't Go in the Mud.'" The award consists of a certificate, a cash award of \$50.00, and a one-year membership in TCS and subscription to JCB.

New ASC Address

The Association of Systematics Collections (ASC) has recently moved. The ASC is an association of North American institutions that house systematics collections. The association exists to promote systematics collections, the institutions responsible for them, and the biosystematics community for which they are an essential resource. ASC works toward these goals by providing representation to governmental agencies and policymakers, serving as a clearinghouse of information affecting the systematics community, organizing meetings and workshops, producing and distributing two regular newsletters and special publications, and interacting with other societies and groups both in North America and around the world. To learn more about ASC, and its current activities and projects, please contact the staff at the new address listed below.

Association of Systematics Collections
1725 K Street NW, Suite 601
Washington, D.C. 20006-1401 USA
Tel: (202) 835-9050
Fax: (202) 835-7334
E-mail: asc@ascoll.org
(www: <http://www.ascoll.org/>)



Orthopagurus minimus
(From Hart, 1982)



Message from the Awards Committee Chair

After some discussion among current and former members as well as a non-random sampling of the TCS membership, The Awards Committee is considering abolishing the Best Paper Award which is awarded annually to the "best" paper in the Journal of Crustacean Biology. TCS would, of course, continue to award a Best Student Paper Award at the annual meetings. Since abolishing the annual award for a journal paper should not be taken without comment from the membership, we are asking for comments (pro and con) to be sent to Jack O'Brien, the current chair of the awards committee. These comments will be summarized and presented for discussion and decision at the next general meeting of TCS.

Jack O'Brien
Dept. of Biological Sciences
LSB Rm 124
University of South Alabama
Mobile, AL 36688 USA
E-mail: jobrien@jaguar1.usouthal.edu
Phone: 334-460-7525
FAX: 334-414-8220

The following is a summary of pertinent information and views that have already been expressed (written and oral).

Reasons FOR

Recognition: Certainly the main purpose of the award is to recognize an individual or group of individuals who have made an outstanding contribution to crustacean research.

Publicity: Because the research has been judged to be outstanding by a panel of peers, the recipient can 1) argue strongly for professional promotion, 2) recruit quality graduate students, 3) persuade a search committee

he or she should be invited for a job interview, or 4) convince grant reviewers that the P.I. is a highly qualified researcher. One TCS member is convinced that the reception of a comparable award from another journal was directly responsible for the awarding of another year of research funding to the recipient.

Increased submissions to JCB:

Investigators who are interested in receiving recognition for outstanding research may choose to submit manuscripts to JCB rather than to another journal. One TCS member has admitted to considering the potential for an outstanding paper award when deciding what journal to submit a manuscript. This individual has published a number of papers in JCB.

Reasons AGAINST

Meaningless apples-and-oranges comparisons:

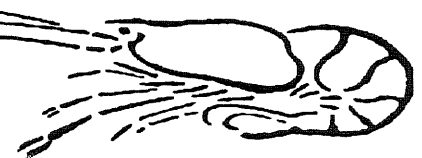
The frustration felt by the judges in trying to impartially decide whether a paper in one area of research, ecology for example, is better than one in physiology, systematics, or cellular biology is enormous. In addition, how does one rank original research against an outstanding review? The judges are aware that they can't help being biased toward outstanding papers in their area of expertise simply because they are more qualified to recognize the quality of research in that specialty. Since the make-up of the committee can have an important influence upon what paper is decided as the eventual winner, commendable effort has been made to maintain a committee with diverse research interests. This is a mixed blessing, however, for the rankings of papers typically range broadly and frequently

the committee faces making a decision without a clear consensus.

Production of ill will: Criticism has been expressed about the committee's selections in the past by authors who knew that they had been considered, but did not win, and by those who felt that they had submitted outstanding research but were not considered for the award. Rather than enabling the Society to recognize outstanding research, the committee has felt that it's soul-searching efforts often become the focus for bickering and bad feeling.

Difficulty in recruiting judges: Many people turn down requests to serve on the awards committee because they don't have the time. Outside of Arthur Humes, how many members have read every article in JCB, must less have the time to evaluate them?

Minor significance: Everyone recognizes that awards given to the Best Student Papers at an annual meetings are quite helpful to the recipients. For a Master's or Ph.D. student, such recognition can facilitate acceptance into a strong Ph.D. or post-doctoral program. Additionally, these awards can attract the attention of job search committees. Most recipients of the Best Paper of the Year, however, are individuals with established laboratories and are not attempting to move elsewhere. Although the awards are appreciated, they probably do not play a significant role in advancing the professional careers of the recipients.



TCS Constitutional Changes

By a vote of 113 to 8, the following constitutional changes were accepted by the Membership of The Crustacean Society. The changes proposed are to the latest edition of the constitution, published in the *Ecdysiast* 5(2), August, 1986. The original constitution was published in JCB 1(2): 293-297.

A. Article 3, Section 2. Change sentence one to read: "*Member, Sustaining Member, Patron Member, Emeritus Member, Institutional Member, and Founding Member are recognized.*"

Article 3, Section 2 will now read:

Section 2: Types of Membership. Member, Sustaining Member, Patron Member, Emeritus Member, Institutional Member, and Founding Member are recognized. Other classes of membership may be created by action of the Board of Governors, hereafter referred to as "the Board." An institution or organization that is a member is entitled to designate a representative who may cast a single vote on its behalf.

B. Article 3, Section 3. Change sentence one to read: "*All members whose dues have been paid for the current year shall be considered members in good standing and shall be entitled to receive notices of Society activities, vote at meetings or by mail, receive the Society's newsletter, subscribe to the Society's journal at special rates, and participate in all activities sponsored by the Society within limits.*" Delete sentences two and three. Change sentence four to read: "*Other privileges of membership, some category specific, may be designated by the Board.*"

Article 3, Section 3 will now read:

Section 3: Rights of Membership. All members whose dues have been paid for the current year shall be considered members in good standing and shall be entitled to receive notices of Society activities, vote at meetings or by mail, receive the Society's newsletter, subscribe to the Society's journal at special rates, and participate in all activities sponsored by the Society within limits. Other privileges of membership, some category specific, may be designated by the Board."

C. Change Bylaw 1 a), to read: *Member - a person paying the prescribed dues.*

D. Change Bylaw 1 c), to read: *Patron - Members contributing a yearly amount as determined by the membership. Patron Members shall be recognized in the Society's journal.*

E. Change Bylaw 1 e), to read: *Institutions or organizations shall be classified by the following categories accorded to individual members: Member, Sustaining Member, or Patron Member on the payment of dues higher than those of individual persons; such dues to be set as prescribed in Article 4.*

The new dues as a result of this action then will be:

\$ 20.00	Member (no journal)
\$100.00	Sustaining Member (includes journal)
\$150.00	Patron Member (includes journal)
\$200.00	Institutional Member (includes journal)
\$300.00	Sustaining Institutional Member (includes journal)
\$500.00	Patron Institutional Member (includes journal)

The new subscription rates for JCB then will be:

Non-member	\$105.00	delivery in North America
	\$125.00	delivery outside North America
Member	\$ 55.00	
	\$ 30.00	(special rate for members unable to pay full cost of journal)



Regional News

The Azores

Ana Cristina Costa, Departamento de Biología, Universidade dos Acores, reports the following items of interest.

The Symposium on Fauna and Flora of the Atlantic Islands will be held in the Department of Biology of the University of the Azores, in Ponta Delgada in September 1998.

Information on the symposium is available at the internet site: <http://www.uac.pt>.

There is a scientific publication from this University on Life and Marine Sciences issues, *Arquipelago*, which publishes original scientific articles, brief notes and reviews on the natural environment of the archipelago of the Azores and surrounding regions. Papers from other Macaronesian and Atlantic islands will also be accepted.² This publication is indexed in ASFA, BIOSIS, CABS, Current Contents, MSCT and Zoological Record.

Another journal in the Azores is devoted mainly to the natural history of the region. It is the journal of the Sociedade de Estudos Acoreanos "Afonso Chaves." Manuscripts and correspondence should be addressed to the editor: Prof. A. Frias Martins, Sociedade de Estudos Acoreanos "Afonso Chaves," Apart. 258, P-9503 Ponta Delgada (Codex) Portugal.

Latin America

New Discussion List for Latin America

With the support of the Institute of Marine Sciences and Limnology (ICMyL-UNAM) and The Crustacean Society (TCS) we initiate this new e-mail discussion list <crustacea>. This list is an academic interaction forum for both researchers and students in the disciplines of systematics,

biology and ecology of Crustacea in Latin America.

The objectives of the list are to: facilitate communication among latinamerican students and researchers interested in the study of crustaceans and related topics; support and expedite the search for information and materials necessary for research on solutions to problems related to crustacean research; and finally to communicate in due time the organization of events and promote the creation of an address book of Latin America Crustacean specialists.

<crustacea> is a closed and moderated list managed by the computer center at UNAM.

To subscribe to the list <crustacea> send the following message:

Inscripción crustacea <your address>

addressed to the list manager at the following e-mail address:

<majordomo@servidor.dgsca.unam.mx>

According to the following example:

Inscripción crustacea
escobri@mar.icmyl.unam.mx

We expect that the advertising of this list may enhance the gathering of latinamerican crustacean specialists. Messages sent to the list, requests for information, and any other questions should be sent directly to the list address below:

crustacea@servidor.unam.mx

Please do not hesitate to request further information: Elva Escobar-Briones, Benthic Ecology Lab, Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México, A.P. 70-305, 04510 Mexico, D.F. MEXICO; Tel: (525) 622.5835; Fax: (525) 616.0748; E-mail: escobri@mar.icmyl.unam.mx

Association Latinoamericana de Carcinología

The Asociación Latinoamericana de Carcinólogos (Latin American Association of Carcinologists) is a new society specializing in the study of crustaceans. Enrique Boschi of the Fisheries Institute in Argentina is the provisional president of the society that was created in October 1995. One of the main goals of the society is to link all crustacean experts in Latin America. For more information contact Dr. Boschi at: Instituto Nacional de Investigacion y Desarrollo Pesquero, 7600 Mar del Plata, Argentina; Tel: 54.23.86.24.04; Fax: 54.23.86.18.30.

Sociedad Mesoamericana para la Biología y la Conservacion

The Mesoamerican Society for Biology and Conservation was formed on 14 January 1996, at Lake Yojoa, Honduras, by a group of biologists from five countries and numerous branches of the biological sciences. This new society will serve biologists and conservationists throughout Central America and southern Mexico, by publishing a news bulletin *Mesoamericana*, and by sponsoring annual congresses in Mesoamerica. The official name of the society is "Sociedad Mesoamericana para la Biología y la Conservacion." Persons interested in the society, as members or potential officers, are invited to become founding members, subscribe to the bulletin, and attend the first general meeting of the membership in Tegucigalpa in June 1996. Institutions are also invited to help found the society, the first ever of its kind in Mesoamerica.

Members will receive the quarterly "*Mesoamericana*," which will include news in Spanish and English of current projects, meetings, and literature, as well as biographical sketches on founding members, and short, non-technical articles of general use to biologists working in Mesoamerica. The Society initially intends to publish technical articles in proceedings of

annual symposia or congresses. The first issue of *Mesoamericana* will be published in June 1996. For more information about the bulletin, contact its editor, Carlos Rene Ramirez Sosa, 4a. Avenida Sur #1, Apopa, San Salvador, El Salvador (Tel: 503-336-0152; E-mail: crlic@cunyvm.cuny.edu).

The cost of basic membership is \$20 for 1996 (includes 3 issues of *Mesoamericana*). One can become a founding member for \$50. Institutions can become founders for \$200, which includes a subscription to the bulletin. Founding members and founding institutions will be acknowledged in the bulletin. Founding memberships will be available only through the end of 1996. Donations larger than \$200 are welcome, and donors will be recognized in print as benefactors. Membership fees or other donations may be sent to Oliver Komar, Department of Zoology, Ohio Wesleyan University, Delaware OH 43015 (Tel: 614-369-0175; E-mail ookomar@cc.owu.edu). Checks should be made out to "Mesoamerican Society for Biology and Conservation" or "Sociedad Mesoamericana para la Biología y la Conservación."

Mesoamerican residents have lower membership costs, and can contact directly one of the acting secretaries, Silvia C. Chalukian, at Departamento de Recursos Naturales y Conservación Biológica, Escuela Agrícola Panamericana, Apartado 93, Tegucigalpa, Honduras (Tel: 504-76-6140; Fax: 504-76-6234; E-mail: eapdrn@ns.hondunet.net or eaphpcs@ns.hondunet.net).

All members are encouraged to attend the first meeting at the Universidad Nacional Autónoma de Honduras, Tegucigalpa, tentatively planned for 21-22 June 1996, at which the Society's membership will approve its statutes and elect a board of officers and trustees. The meeting includes a one-day symposium on Mesoamerican biology, with invited papers and an open poster session. Anyone interested in attending the meeting and symposium may contact the society's acting president Gerardo Borjas. Licenciado

Borjas is the local organizing committee chair and scientific program chair for the June meeting. He may be reached at Apartado 30-357, Toncontin, Tegucigalpa M.D.C., Honduras (Tel/Fax: 504-33-9576). Information on local lodging arrangements and registration also will be available from Oliver Komar at the address given previously.

Asia

The Carcinological Society of Japan

Membership in the Carcinological Society of Japan is open to anyone interested in Crustacea and who wishes to join. The Society currently has about 300 members. Annual dues are 5000 Japanese yen. Members are requested to send dues to the Society at P.O. Savings Transfer Account No. 3-608062 Tokyo (Ordinary bank check will not be accepted). Membership includes subscription to the Society's journal (*Crustacean Research*) and newsletter (*Cancer*).

Correspondence concerning membership should be sent to: The Secretary, The Carcinological Society of Japan, c/o Department of Aquatic Biosciences, Tokyo University of Fisheries, 4-5-7 Konan, Minato-ku, Tokyo 108, Japan. Manuscripts and editorial questions should be sent to the Editor, *Crustacean Research*, Faculty of Education, Kumamoto University, 2-40-1 Kurokami, Kumamoto 860, Japan.

Back issues are also available for the society's publications. The society's official journal (in English or Japanese) was published from 1963-1992 (Vols. 1-21) as "*Koukaku no Kenkyu (Researches on Crustacea)*" and from 1993-present (e.g., Vols. 22-23) as "*Crustacean Research*." Also available are several supplements or special issues, including:

Supplement for No. 8: Sakai, T. (1978). Decapod Crustacea from the Emperor Seamount Chain. 39 p.

Special Issue No. 1: Sakai, K. (1982). Revision of Upogebiidae (Decapoda, Thalassinidea) in the Indo-West Pacific Region. 106 p.

Special Issue No. 2: Baba, K. (1988). Chirostyliid and Galatheid Crustaceans (Decapoda: Anomura) of the "Albatross" Philippine Expedition, 1907-1910. 202 p.

Special Issue No. 3: Holthuis, L.B., & Manning, R.B. (1990). Crabs of the Subfamily Dorippinae MacLeay, 1838, from the Indo-West Pacific Region (Crustacea: Decapoda: Dorippidae). 150 p.

Price for non-members: 3000 yen each for Nos. 1-23, and Supplement for No. 8; 5000 yen each for Special Issue Nos. 1-3.

Discount price: 40000 yen for a set of Nos. 1-20 of "*Researches on Crustacea*."

North America

Peracarid Research & Workshop Opportunities

A Research Assistantship is available at the University of Maine for a Ph.D. student interested in crustacean systematics with an emphasis on the Cumacea. This assistantship is part of a NSF/PEET initiative to train a new generation of systematists. Les Watling and Irv Kornfield are the principal investigators on the project. Please refer to the box on page 8 for details. A couple of other peracarid taxa have also been the focus of the PEET awards. These include awards to Richard Brusca (University of Charleston) and Brian Kensley (Smithsonian Institution) for research on isopod systematics and to John Holsinger (Old Dominion Research Foundation) for work on the Amphipoda. Anyone interested in these or other PEET awards should check out the NSF/PEET web site.

A workshop on the biology of the Peracarida will be held at the Darling Marine Center during late July, 1996.



The workshop will cover all aspects of the biology and systematics of this sometimes controversial group, and should be an exciting follow-up to the peracarid symposium at the San Diego TCS meeting earlier in the month. Les Watling is coordinating the workshop with instructors being J.D. Thomas and Brian Kensley of the Smithsonian Institution and Trisha Spears of Florida State University. For details and registration information, please see the box on page 9.

Job Opportunities

Assistant Research Scientist Position Estuarine Ecologist / Ecosystem Modeler

The Virginia Institute of Marine Science of the College of William & Mary has an opening in the Department of Biological Sciences for an Estuarine Ecologist - Ecosystem Modeler. The incumbent will work with an interdisciplinary team of scientists on a large-scale program focused on the York River Estuary & Watershed, a southern tributary of the Chesapeake Bay.

Responsibilities will include data management, ecosystem model development and analysis, and participation in grants administration and development. Independent research that compliments the general theme of the program is expected.

Minimum qualifications are a Ph.D. in estuarine/marine science (or equivalent), background and demonstrated ability in numerical modeling and simulation analysis, and field research experience in estuarine/marine ecology. Knowledge of spatial modeling and GIS is highly desirable.

This is a non-tenure track position funded at present for two years through both Institutional sources and Federal grants. Salary dependent upon qualifications and in the range \$32 - \$40K per annum. Review will begin May 1, 1996 and will continue until a successful

applicant is found with the expected start date being 1 July 1996.

Submit a resume, a list of three references, and a detailed personal statement of research interests and professional goals to Dr. Richard L.

Wetzel, College of William & Mary, Virginia Institute of Marine Science, Gloucester Point, VA 23062 USA. Further information can be obtained by calling (804) 642-7381 or via e-mail at dick@vims.edu.

Graduate Study in Crustacean Systematics with Emphasis on Cumaceans

A Research Assistantship is available at the UNIVERSITY OF MAINE for a Ph.D. student interested in studying morphological and molecular methods of systematics. Emphasis will be on the Order Cumacea, primarily from the Pacific Basin, but also the Gulf of Mexico. Material to be examined will include previously collected specimens from various museums, but fresh material collected in Chile, New Zealand, and the American part of the Gulf of Mexico will be a significant aspect of the project. New species will be described, and fresh specimens will be collected and prepared for molecular examination. Historical biogeographical hypotheses involving Pacific Basin cumaceans will be tested.

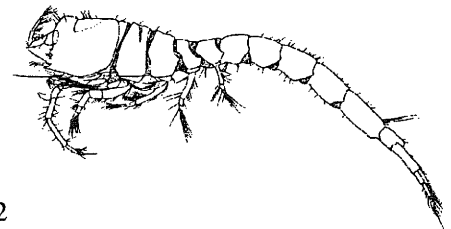
The successful applicant will have completed a M.S. degree, or equivalent in the case of foreign applicants, preferably in some area of crustacean biology or invertebrate biology; will be interested in both morphological and molecular systematic methods; and will be able to work for long periods of time under difficult field conditions.

This assistantship is part of a NSF/PEET initiative to train a new generation of systematists. Our approach will be to educate the student in all areas of modern systematics, ranging from an understanding of the International Code of Nomenclature, to morphological and molecular phylogenetic methods, to testing historical biogeographical hypotheses.

Enrollment can be in either the Oceanography or Zoology Departments, with either Les Watling or Irv Kornfield as major advisors, depending on the student's major area of interest. Watling is interested primarily in morphology and biogeography, while Kornfield's expertise is primarily in molecular techniques.

Students interested in applying for this Research Assistantship should send a letter of interest containing a statement of research and course background to Les Watling at the address below, and should REQUEST APPLICATION MATERIALS from the Graduate School, University of Maine, Orono, ME 04469, USA.

Les Watling
Darling Marine Center
University of Maine
Walpole, ME 04573
Ph: (207) 563-3146 ext. 248
FAX: (207) 563-3119 or
(207) 563-3146,,,,,,272
E-mail: Watling@maine.maine.edu



Marine Biologist Position

The Massachusetts Division of Marine Fisheries has an opening for a marine biologist. Duties represent a mix of field sampling and data analysis. In general, the successful applicant will assist in the planning and conduct of American lobster research and management related projects including biological and catch-effort sampling programs in Massachusetts coastal waters. Significant interaction will

occur with industry user groups, state, and federal agencies.

Applicants must be skilled in field research, SCUBA diving, technical writing, oral presentations, use of bio-statistical software and data analysis. Must have considerable knowledge of fisheries biology and management, fish population dynamics and associated modelling, including assessment techniques used in fisheries research and management. Salary range ~\$33,400/yr.—\$42,300/yr.

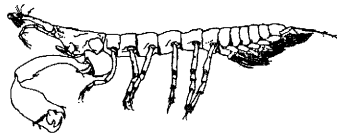
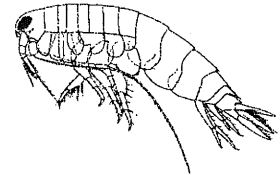
Please send resume, transcripts (if recent student), and at least three professional references with titles and phone numbers to:

Bruce T. Estrella
Massachusetts Division of Marine
Fisheries
18 Rt. 6A
Sandwich, MA 02563 USA
Tel: (508) 888-1155
E-mail: Bestrella@state.ma.us.

Biology of the Pericarida Workshop

July 22 - July 27, 1996

(with extension to August 2 for research projects)
Darling Marine Center, University of Maine



Coordinator: Dr. Les Watling, Department of Oceanography, University of Maine.

Instructors: Drs. J.D. Thomas and Brian Kensley, Smithsonian Institution; Dr. Trisha Spears, Florida State University.

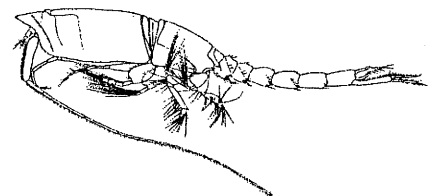
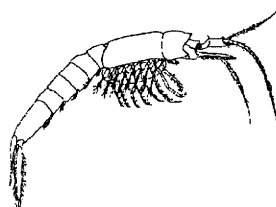
Participants will examine the anatomy, taxonomy, functional morphology, and phylogeny of peracarid crustaceans. Representatives of all orders will be available for examination. The monophyletic status of the Peracarida will be discussed using both morphological and molecular evidence. The first week of the course will involve formal instruction and discussion, with the second week available to participants who may wish to investigate a particular aspect of peracarid biology or morphology using the Darling Marine Center's facilities (for example, EM center and histology lab, or flowing seawater system).

COURSE COST: \$300 (students need to bring their own fine dissection tools). Meals & housing extra.

To register, or to obtain more information about housing, etc., interested persons should contact Tim Miller by e-mail at mailbox temiller@maine.maine.edu.

For more information about course content and other general information, contact Les Watling at the address below or by e-mail: Watling@maine.maine.edu.

Les Watling
Darling Marine Center
University of Maine
Walpole, ME 04573 USA
Ph: (207) 563-3146 ext 248
FAX: (207) 563-3119 or
(207) 563-3146,.....,272



New Publications & Reprints

Crustacean Issues

Two new volumes of *Crustacean Issues* were published during 1995, bringing to 10 the number of issues in the series. Volume 9, edited by M.A. Alikhan, is entitled "Terrestrial Isopod Biology," and includes the papers presented at the Isopod Symposium sponsored by TCS during the 1992 meeting of the American Society of Zoologists in Vancouver, B.C. Volume 10, "New Frontiers in Barnacle Evolution," represents the second volume of the series to deal specifically with barnacles. These two volumes are welcome additions to this important carcinological series, that so far includes issues dealing with phylogeny and biogeography (Vols. 1 & 4), larval and adult growth (Vols. 2 & 3), the biology of barnacles (Vol. 5), functional morphology of feeding and grooming (Vol. 6), egg production (Vol. 7), and the history of Carcinology (Vol. 8). All 10 volumes are available from A.A. Balkema Publications (see page 18 for ordering information).

Australian Crustaceans

Buz Wilson of the Australian Museum would like to draw attention to two recent publications dealing with new crustacean discoveries from Australia. The first of these papers, by Jill Yager and W.F. Humphreys, reports on the first remipede recorded from the region. This article represents the latest information on this odd cavernicolous crustacean group and includes the description with live photographs and SEMs, a key to all 11 extant species, useful environmental data on the

remipede habitat, and a discussion of the group's biogeography. The second paper of interest, by Buz and L. Ho, reports on the first phreatoicidean isopod to be described in Australia since 1944. Complete citations for both papers are given below.

Yager, J., and W.F. Humphreys. (1996). *Lasioneectes exleyi*, sp. nov., the first remipede crustacean recorded from Australia and the Indian Ocean, with a key to the world species. *Invertebrate Taxonomy*, 10(1): 171-187.

Wilson, G., and L. Ho. (1996). *Creneoicus* Nicholls, 1944 (Isopoda, Phreatoicidae): systematics and population biology of a new species from New South Wales. *Records of the Australian Museum*, 48(1): 7-32.

California Crustaceans

Volume 12 (The Crustacea Part 3 — The Amphipoda) of the *Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and Western Santa Barbara Channel* was published during 1995. Edited by James Blake, Les Watling, and Paul Scott, this is the first of three Crustacea volumes to be published in the series. As its name implies, this volume deals with most of the amphipod fauna of the region, excluding the Lysianassidae. Included is an introduction to the Amphipoda by Les Watling and J.D. Thomas, followed by four chapters covering various taxa. Chapter 2, by J.D. Thomas and L.D. McCann, covers the families Argissidae, Dexaminidae, Eusiridae, Gammaridae, Leucothoidae, Melphidippidae, Oedicerotidae, Pardaliscidae, Phoxocephalidae, Podoceridae, Stegocephalidae, Stenothoidae, Stilipedidae, Synopiidae, and Urothoidae. Chapter 3, by Les Watling, covers the families

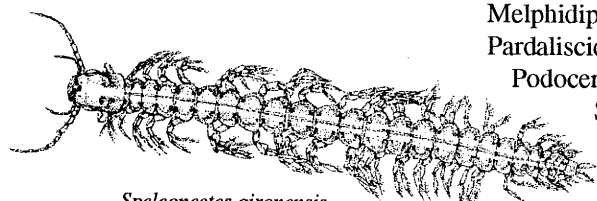
Ampeliscidae, Amphilochidae, Liljeborgiidae, and Pleustidae. The superfamily Corophioidea is covered in chapter 4 by Kathleen Conlan, and the caprellid amphipods are covered in chapter 5 by Les Watling.

Volumes 10 and 11 (The Crustacea Parts 1 and 2, respectively) in the series are due to be published during 1996 and will cover such groups as the Decapoda, Isopoda, Cumacea, Mysidacea, and Tanaidacea. For more information on these or any other volumes in the series, contact Dr. Paul Scott at the Department of Invertebrate Zoology, Santa Barbara Museum of Natural History, 2559 Puesta del Sol Road, Santa Barbara, CA 93105 USA.

The Southern California Association of Marine Invertebrate Taxonomists (SCAMIT) was formed in 1982 to promote the study of invertebrate taxonomy and develop a regionally standardized taxonomy of marine invertebrates within the region. Its membership includes most of the taxonomists responsible for conducting infaunal and soft-bottom epifaunal monitoring programs in southern California coastal waters. SCAMIT's activities include monthly meetings, workshops, and communication of taxonomic information to its membership through a monthly newsletter. SCAMIT has also recently published the following listing of invertebrates known from soft-bottom habitats of the Southern California Bight.

SCAMIT. (1996). A Taxonomic Listing of Soft Bottom Macro- and Megainvertebrates from Infaunal and Epibenthic Monitoring Programs in the Southern California Bight. Edition 2. Southern California Association of Marine Invertebrate Taxonomists, San Pedro, CA, 86 pp.

The above list is comprised of 2789 invertebrate taxa, 755 of which are crustaceans. Approximately 10% of the crustacean taxa represent provisional (i.e., undescribed) species or species complexes. For more information on SCAMIT or this publication, contact



Speleonectes gironensis
(From Yager, 1994)

Ron Velarde (President) at the City of San Diego's Marine Biology Laboratory (Phone: 619-692-4903; E-mail: rgv@sddpc.sannet.gov) or Don Cadien (Vice President) at the Marine Biology Laboratory of the County Sanitation Districts of Los Angeles County (Phone: 310-830-2400, ext. 403; E-mail: mblcsdla@netcom.com).

Lobster Reference

Factor, J.R., ed. (1995). *Biology of the Lobster *Homarus americanus**. Academic Press, 528 pp., (ISBN 0-12-247570-4)

This comprehensive reference brings together in one volume the current state of knowledge of the fascinating and widely distributed species, *Homarus americanus*. It will appeal to benthic biologists in general, as well as to invertebrate biologists, marine biologists, carcinologists, aquaculturists, fishery biologists, benthic ecologists, developmental biologists, neurobiologists, and researchers working with other lobster species. It contains quite a lot of material on the development and ecology of the larval, postlarval, juvenile, and adult stages. Because this book contains extensive material on anatomy, life history, systems physiology, and behavior, it will be a useful laboratory reference for marine biology and invertebrate biology courses that use *H. americanus* as a preserved dissection or living specimen.

CONTENTS: J.R. Factor, Introduction, Anatomy, and Life History; A.B. Williams, Taxonomy and Evolution; G.P. Ennis, Larval and Postlarval Ecology; P. Lawton and K.L. Lavalli, Postlarval, Juvenile, Adolescent, and Adult Ecology; R.J. Miller, Fishery Regulations and Methods; M.J. Fogarty, Populations, Fisheries, and Management; J.S. Cobb, Interface of Ecology, Behavior, and Fisheries; D.E. Aiken and S.L. Waddy, Aquaculture; P. Talbot and S. Helluy, Reproduction and

Embryonic Development; S.L. Waddy, D.E. Aiken, and D.P.V. de Kleijn, Control of Growth and Reproduction; B. Beltz, Neurobiology and Neuroendocrinology; C.K. Govind, Muscles and their Innervation; J. Atema and R. Voigt, Behavior and Sensory Biology; K.L. Lavalli and J.R. Factor, The Feeding Appendages; J.R. Factor, The Digestive System; D.E. Conklin, Digestive Physiology and Nutrition; G.G. Martin and J.E. Hose, Circulation, the Blood, and Disease; B.R. McMahon, The Physiology of Gas Exchange, Circulation, Ion Regulation, and Nitrogenous Excretion — An Integrative Approach. Chapter References. Subject Index.

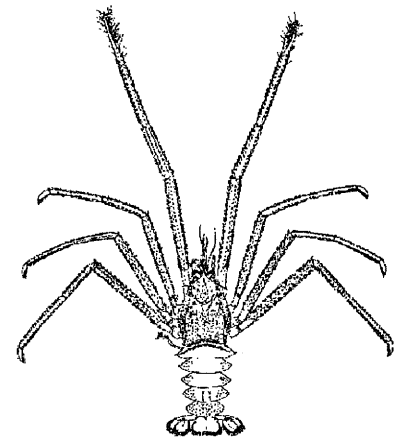
ORDERING INFORMATION:

Telephone (USA and Canada): 800-321-5068, FAX 800-336-7377. Mail: (1) Academic Press, Order Dept., 6277 Sea Harbor Dr., Orlando, FL 32821 USA; (2) Academic Press Ltd., 24-28 Oval Rd., London NW17DX, UK; (3) Harcourt Brace, Locked Bag 16, Marrickville NSW2204, Australia; (4) Harcourt Brace, Ichibancho Central Bldg., 22-1 Ichibancho Chiyoda-ku, Tokyo 102, Japan.

Price: US\$195.00; free postage and handling on prepaid orders; payment by U.S. bank draft, international money order, or credit card (American Express, Mastercard, VISA; include card number, expiration date, signature, and telephone).

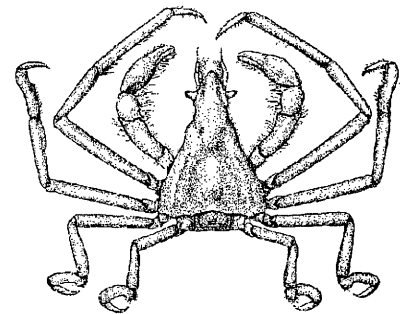
Crustacean Reprints Available at Natural History Museum of L.A. County

The recent and unfortunate losses of both Dr. John Garth and Ms. Janet Haig, the former in 1993, the latter in 1995, have occasioned the transfer of their remaining available publications to the Natural History Museum of Los Angeles County. (The former Allan Hancock Foundation crustacean collections themselves have already



Chirostylus perarmatus
(From Haig, 1968)

been transferred to the Museum). In addition to the publications of Dr. Garth and Ms. Haig, there are also, in the collection, some reprints of papers authored by former USC/Hancock carcinologists, such as W.T. Mattox (branchiopods) and L. Yeung (cyamid amphipods). Although a list of the available reprints will be published later, probably in the November 1996 *Ecdysiast*, we will begin distribution of these reprints now to anyone with a specific request. Please send an appropriately-sized, self-addressed and franked envelope (preferably padded) along with the titles of any Garth/Haig/Mattox/Yeung etc. reprints you may have an interest in, and we will do what we can to fill your order. There is no cost. Please do not send "blanket requests" at this time. Address requests to: George E. Davis, Collections Manager, Crustacea, Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007 USA.



Podochela ziesenhennei
(From Garth, 1940)



Upcoming Meetings & Symposia

TCS Meetings

Information on the following TCS meetings is also available on the TCS home page (see page 3) where they will be updated as details become available. You may wish to check the home page periodically for the latest information.

Summer 1996 (San Diego, California)

This year's Summer Meeting of The Crustacean Society will be held jointly with the Third International Large Branchiopod Symposium (ILBS3) at the University of San Diego, San Diego, CA, USA from July 14-18, 1996. Organized by Marie Simovich and Michel Boudrias, the meeting should prove to be an excellent one. Michel Boudrias is also organizing a Peracarid Symposium within the TCS meeting schedule. Please refer to the formal meeting announcement in the November 1995 issue of the *Ecdysiast* (Vol. 14, No. 2) for details and registration information. For additional information, contact Marie Simovich, Biology Department, University of San Diego, San Diego, CA 92110 USA, Tel: (619) 260-4729, Fax: (619) 260-6804, or Michel Boudrias via e-mail at boum@pwa.acusd.edu.

December 1996 (Albuquerque, New Mexico)

The 1996 Winter Meeting will be held at the Albuquerque Convention Center, Albuquerque, NM, USA in conjunction with The American Society of Zoologists: A Society of Integrative and Comparative Biology.

Summer 1997 (Mobile, Alabama)

The 1997 Summer Meeting is scheduled to be held from May 21-24, 1997 at the Adam's Mark Hotel in Mobile, AL, USA, with an excursion to the

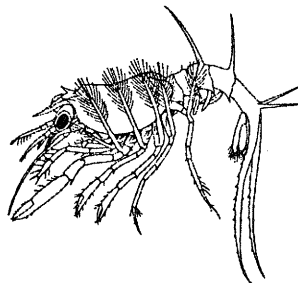
Dauphin Island Sea Lab. The meeting will be hosted by Richard Modlin of the University of Alabama in Huntsville (modlinr@email.uah.edu) and Ken Heck of the Dauphin Island Sea Lab. Two symposia are scheduled so far: (1) Biodiversity of Latin American Crustaceans (organized by Elva Escobar-Briones); and (2) Symposium Honoring Dr. Austin Williams (organized by Ray Manning and Darryl Felder).

January 1998 (Boston, Massachusetts)

The Winter 1997-1998 meeting will be held in January 1998 at Marriott Copley Place, Boston, MA, USA in conjunction with The American Society of Zoologists.

Summer 1998 (Amsterdam, The Netherlands)

The 1998 Summer Meeting will be held from July 20-24, 1998 in Amsterdam, The Netherlands in conjunction with the Fourth International Crustacean Congress (ICC 4) and the Third European Crustacean Conference. TCS will be co-sponsoring these exciting meetings. The local contact is: Fred Schram (schram@mail.bio.uva.nl). Please see the "First Announcement" for the ICC 4 on pages 15-17 of this newsletter.



2nd International Conference on the Culture of Penaeid Prawns and Shrimps

May 14-17, 1996
(Iloilo City, Philippines)

The First ICCPPS (International Conference on the Culture of Penaeid Prawns and Shrimps) was held in 1984. The goals of the Second ICCPPS are to review the researches of the past years, identify research gaps, and propose strategies to make the shrimp industry sustainable. Over 100 participants from 21 countries in Asia, Australia and the Pacific, North and South America, the Middle East, and Europe have signified their intention to participate in the SICCPSS. For additional information about the conference, please contact:

The Secretariat, SICCPSS
SEAFDEC/AQD, Tigbauan 5021
Iloilo, Philippines
Tel: (63) 33-3351009
Fax: (63) 33-3351008
E-mail: tms-seafdec@phil.gn.apc.org

Settlement & Metamorphosis of Marine Invertebrate Larvae

July 15-19, 1996
(University of Plymouth, UK)

Jointly organized by the Marine Biological Association (UK), JRDC (Japan), and the University of Plymouth.

5 Themes planned:

- nature of chemical cues to settlement;
- perception of cues;
- hydrodynamics and settlement;
- biofilm-larval interactions;
- inhibition of settlement by natural products/cues.

Contact: Dr. Tony Clare, Marine Biological Association, Citadel Hill, Plymouth PL1 2PB, UK
Tel: +44 (1752)633100
Fax: +44 (1752)633102
E-mail: T.Clare@pml.ac.uk

Second European Crustacean Conference

September 2-6, 1996
(Liège, Belgium)

The Second European Crustacean Conference will be held in Liège, Belgium, from September 2-6, 1996. It will host the seventh meeting of the "Groupe d'Etudes et de Réflexions sur l'Evolution des Crustacés" (GEREC) and the "Crustacean Larval Conference."

Please refer to the formal announcement in the November 1995 issue of the *Ecdysiast* (Vol. 14, No. 2) for further details and registration information, or contact: Secretary General, 2nd European Crustacean Conference, Laboratory of General Biology and Ultrastructural Morphology, Institute of Zoology, Quai Van Beneden, 22, B-4020 Liège, Belgium; Tel: +32-41.66.50.98, +32-41.66.50.62, 32-41.66.50.46, or 32-41.66.50.72; Fax: 32-41.66.50.10 or 32-41.66.50.20

6th Colloquium Crustacea Decapoda Mediterranea

September 12-15
(Florence, Italy)

The 6th Colloquium Crustacea Decapoda Mediterranea (CCDM) will be held in Florence, Italy, from September 12-15, 1996. The scientific program is designed for anyone working on Mediterranean decapods, including systematics, paleontology, phylogeny, biogeography, ecology, ethology, reproduction and growth, fisheries, culture, and related topics. Papers on general aspects of some of the above are also welcome even if not strictly dealing with Mediterranean species.

For further information, see the announcement in the last issue of the *Ecdysiast* (Vol. 14, No. 2), or contact: 6th Colloquium Crustacea Decapoda Mediterranea Museo di Zoologia "La Specola," via Romana n. I-50125, Firenze, Italy; Tel: +39-55-222451; Fax: +39-55-225325; E-mail: dibagef1@idg.cnr.it.

Vernal Pool Conference

Conference on the Ecology,
Conservation, and Management of
Vernal Pool Ecosystems

June 1996
(Sacramento, California)

The conference will be held June 19-21, 1996, at the Hilton Hotel, Sacramento, California. The four sessions include (1) Vernal pool Distribution and Characteristics, (2) Ecology, Systematics, Status, and Trends of Vernal Pool Plants, Animals, and Ecosystems, (3) Conservation and Management of Vernal Pools, and (4) Vernal Pool Regulatory, Planning, and Policy issues.

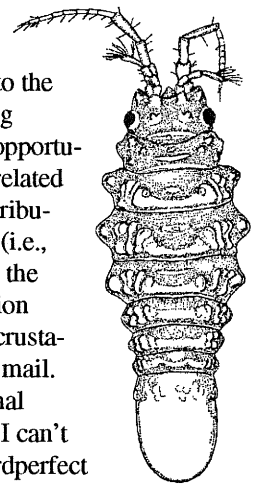
The 40+ invited speakers and panelists include scientists, managers,

and planners from universities, state and federal agencies, local governments, environmental consulting firms, and conservation organizations. Registration fees range from \$100 (early registration by student members of sponsors) to \$200 (late registration by non-students, non-members of sponsors), and fees include registration, lunches, and refreshment breaks. Co-sponsored by The Crustacean Society and the Crustacea Section of the Natural History Museum of Los Angeles County. For more information and registration materials contact: Mr. William Hull, Executive Secretary of the Western Section of The Wildlife Society, P.O. Box 21638, Oakland, CA 94620-1638, or call 510-465-4962 (fax 510-465-1138).

From the Editor

The Crustacean Society depends on its members and interested nonmembers for supplying the information and news published in the society's newsletter. As the new editor of the *Ecdysiast*, I want to thank those who submitted material for the present edition, as well as everyone who helped me put this "first" issue together, especially former editor Ray Bauer and TCS President Betty Wenner. Any comments, suggestions, or criticisms regarding this or future issues will be greatly appreciated. Meanwhile, please keep the contributions coming.

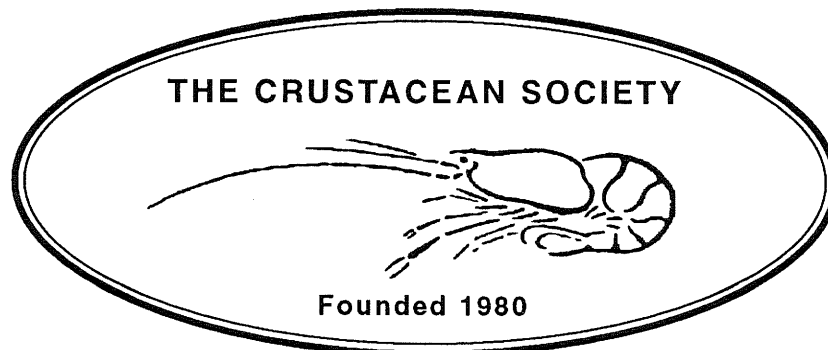
The *Ecdysiast* is published twice a year, now mailed with the May and November issues of the *Journal of Crustacean Biology*. Submissions for the spring (May) newsletter should be in by the end of March, while those for the fall (November) newsletter should be in by the end of September. Anything of 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 (i.e., e-mail, on disk) will be especially welcome. The latter save the editor an enormous amount of time and minimize transcription errors in the process. Graphical images (e.g., your favorite crustacean) should be submitted on disk or camera-ready copy by mail. Camera-ready graphics will probably be scanned into the final document. Do not submit graphics by e-mail at this time — I can't download them. Please specify the software used (e.g., Wordperfect 6.1 windows, Word 5.1 Mac, Photoshop 3.0, etc.) or type of file (e.g., EPS, TIFF, etc.) for material submitted on disk. This edition of the newsletter was prepared using PageMaker 5.0 for the Mac; all graphics were scanned in using Deskscan, and then modified using either Deskpaint or Photoshop.³ Submit all materials directly to the editor at one of the addresses listed at the bottom of page 1 of this newsletter (Tim Stebbins, *Ecdysiast* Editor).



Footnotes

- (1). The minutes of the Board of Governors' meeting and the Annual Business meeting held at the December 1995 meeting of TCS/ASZ in Washington, D.C. will be published in the August 1996 issue of the *Journal of Crustacean Biology* (Vol. 16, No. 3).
- (2). On page 6 of this newsletter Ana Costa refers to the "Macaronesian" islands. Since this editor had never heard of these islands, I wanted to make sure the word hadn't mutated in cyberspace or been simply misspelled by me. Thus, I attempted to find out where and what these islands are. A quick search through some available books and atlases was in vain — which probably says something about the quality of my reference library. Pierre Noël solved this dilemma and suggested, perhaps out of politeness to my biogeographic ignorance, that a footnote may be of use to other readers of the *Ecdysiast*. Anyway, "Macaronesian" is an abbreviation introduced some time ago by a German biogeographer for the designation of the zone comprising three groups of mid-eastern Atlantic islands, viz. the Madere+Canaries+Azores. While not indicated on maps in atlases, this word is still used for biogeography studies.
- (3). All "crustacean graphics" used in this newsletter were scanned in from the following original sources. My apologies to the authors for any distortions that may have occurred during scanning or printing.

- Barnard, J.L. 1962. Benthic marine Amphipoda of southern California: families Tironidae to Gammaridae. *Pacific Naturalist*, 3(2): 73-115. [*Tiron biocellata*, p. 9]
- Barnard, J.L. and R.R. Given. 1961. Morphology and ecology of some sublittoral cumacean Crustacea of southern California. *Pacific Naturalist*, 2(3): 153-165. [*Eudorella pacifica*, p. 8; *Diastylopsis tenuis*, p. 9]
- Bruce, N.L. 1994. Four new genera of marine isopod crustaceans (Sphaeromatidae) from eastern and southern Australia. *Memoirs of the Museum of Victoria*, 54: 399-438 [*Cercosphaera coloura*, p. 9]
- Brusca, G.J. and R.C. Brusca. 1978. *A Naturalist's Seashore Guide: Common Marine Life of the Northern California Coast and Adjacent Shores*. Mad River Press, Eureka, California. [*Loxorhynchus crispatus*, p. 2]
- Garth, J.S. 1940. Some new species of brachyuran crabs from Mexico and Central and South American mainland. *Allan Hancock Pacific Expeditions*, 5(3): 53-127. [*Podochela ziesenhennei*, p. 11]
- Haig, J. 1968. First report of the crab family Chirostylidae off California, and description of a new species of *Chirostylus*. *California Fish and Game*, 54(4): 270-277. [*Chirostylus perarmatus*, p. 11]
- Hart, J.F.L. 1982. *Crabs and their Relatives of British Columbia*. British Columbia Provincial Museum Handbook No. 40. [*Orthopagurus minimus*, p. 3]
- Kathman, R.D., W.C. Austin, J.C. Saltman and J.D. Fulton. 1986. Identification Manual to the Mysidacea and Euphausiacea of the Northeast Pacific. Canadian Special Publication of Fisheries and Aquatic Sciences, No. 93. [*Boreomysis microps*, p. 9]
- Menzies, R.J. and J.L. Barnard. 1959. Marine Isopoda on the coastal shelf bottoms of southern California: systematics and ecology. *Pacific Naturalist*, 1(11): 153-165. [*Synidotea magnifica*, p. 13]
- Schram, F.R. 1986. *Crustacea*. Oxford University Press, New York. [*Neotanais micromorpha*, p. 9; mysis larva of *Nephrops norvegicus*, p. 12]
- Yager, J. 1994. *Speleonectes gironensis*, new species (Remipedia: Speleonectidae) from anchialine caves in Cuba, with remarks on biogeography and ecology. *Journal of Crustacean Biology*, 14(4): 752-762. [*Speleonectes gironensis*, p. 10]



FIRST ANNOUNCEMENT

**FOURTH INTERNATIONAL
CRUSTACEAN CONGRESS**

and including the

THIRD EUROPEAN CRUSTACEAN CONFERENCE

**1998 ANNUAL SUMMER MEETING
OF THE CRUSTACEAN SOCIETY**

July 20 - 24, 1998

**AMSTERDAM
The Netherlands**

Dear Colleagues,

It is a great pleasure for me to announce and invite you to attend the fourth International Crustacean Congress — ICC 4 to be held on Monday 20 through Friday 24, with registration on Sunday 19, 1998, in Amsterdam, The Netherlands. The Congress is organized by the “Stichting Crustacea”, which contains the organizing committee members. In addition, ICC 4 will also host the Third European Crustacean Congress and the 1998 Annual Summer Meeting of the Crustacean Society.

The primary objective of this Congress is to bring together the international scientific community, specialized in the study of crustaceans. We look forward to a fruitful exchange of ideas, and to meeting an interesting and diverse gathering of individuals from all over the world who share an involvement in the fascinating field of crustacean studies.

We hope to see you in Amsterdam in 1998

Fred Schram
Chairman ICC 4

SCIENTIFIC PROGRAMME

The overall theme of this congress will be:

CRUSTACEA IN THE BIODIVERSITY CRISIS

Papers on all aspects of all groups of crustaceans may be submitted. Both invited lectures and contributed papers will be organized according to the following subthemes:

- Systematics, Evolution, Phylogeny and Paleontology
- Development, Larval Biology and Life Histories
- Ecology and Behavior
- Physiology, Biochemistry; Genetics and Molecular Biology
- Fisheries, Aquaculture, Pollution and Toxicology



Every morning there will be a plenary session with invited speakers. After lunch there will be 15 parallel sessions as well as poster presentations. More about the Scientific programme will be forthcoming in the 2nd Announcement.

CONTRIBUTED PAPERS

Next to the plenary sessions with invited speakers, there will be sessions with contributed papers: in ten blocks in all (i.e., two blocks every day over 5 days), five parallel sessions have been planned (of 1 hour each), during which six papers can be presented. This way, a total of 300 contributed papers can be accommodated.

During these sessions, contributed papers may be presented according to the following format:

- exactly 10 min. will be available for every paper, including discussion: speakers can thus determine themselves how much time for discussion will be left;
- during such a contributed lecture, a maximum of 7 slides or overhead sheets can be presented: definitely not more;
- please observe that this time schedule will be utterly strict: alarm clocks will be operated by the chairperson of every session, so as to ensure that no one will speak a moment longer than the time allotted to her or him!
- we hope participants will understand (and, hopefully, value) this approach: in our experience, nothing is more annoying than having to watch an endless stream of uninformative slides during a (often, alas) poorly prepared lecture, waiting impatiently for the chairperson to stop the speaker from exceeding his or her time, while you are dying to hear the next paper you expect so much from (and for which, actually, you have just rushed from Room 4 to Room 2).

Those wishing to present a contributed paper are urged to prepare their lecture thoroughly: make a careful choice of what you wish to communicate, put it together logically, shape it into a well balanced whole, support it with relevant data, slides, or overhead sheets, and practice your lecture several times: such in order to exactly time it within the 10 min. allotted just as well as to be sure to pronounce it adequately at the meeting. Try to meet the (mostly unwritten) Guidelines for Good Speakers, in other words: try to avoid those things that you yourself experience as utterly annoying with other (bad) speakers! Finally, please consider that these directions are not meant for you if you are already a good speaker: just imagine how convenient it would be if those other 299 speakers would present their lecture according to the same standards as you do!

GUIDELINES

Guidelines for Abstracts will be determined in the 2nd or 3rd Announcement. Guidelines for Manuscripts, including refereeing procedures, will also be determined in the 2nd or 3rd Announcement.

VENUE

The Congress will be held in the buildings of the University of Amsterdam right in the heart of the old city. This also means that lunches can be taken at the University "Mensa", which provides good meals for little money. Amsterdam is perfectly situated and has an efficient rail network, public transport, and renamed schiphol airport. Its canals, canal houses and canal boats are famous. There are many interesting museums, churches, nice shopping streets and fine restaurants for all kinds of tastes. The people are friendly and diverse.

LANGUAGE

The Congress language will be English.

EXHIBITION

In the hall of the parallel session building there will be an exhibition with various stands for book publishers, instruments, computer programs, professional groups, and other things.

SOCIAL EVENTS

Social events will be organized for delegates and accompanying guests. Although there is enough to do and to see in Amsterdam, for accompanying guests there will also be a possibility for excursions and tours.

ACCOMMODATIONS

Accommodations will be at local hotels. In Amsterdam, there are various hotels in various prices. In some cases, it is possible to use the University accommodations. Camping nearby is also a (cheap) possibility. July is a busy month in Amsterdam, so it is necessary to reserve a hotel early. A warning: in Amsterdam, trying to park your car is a frustrating business.

FEE

The Conference registration fee will be around f 650. This will include an initial reception, the Proceedings volume, a book of abstracts, free coffee and tea during the sessions, and a public transport card. Not included in the fee are: hotel accommodation, lunch, Congress dinner and evening meals. In later announcements you can subscribe to these services. It will be necessary to charge all delegates the conference fee, but there will be a special price for accompanying guests. Early bookings will receive a reduction on the fee. Accompanying guests (not attending the congress) will pay a minimum fee. More about this reduction and the fee for accompanying guests in the 2nd announcement.

ORGANIZING COMMITTEE ICC 4

Prof. dr. Frederick Schram, University of Amsterdam — chairman
 Dr. Dick Spaargaren, NIOZ, Texel — treasurer
 Drs. Charles Franssen, National Nature Historical Museum, Leiden — scientific programme
 Dr. Carel von Vaupel Klein, Leiden University — Proceedings
 Prof. dr. Gerard van der Velde, Katholieke Universiteit Nijmegen — scientific excursions
 Prof. dr. Johannes Ringelberg, University of Amsterdam — member
 Wil van Zijl, University of Amsterdam — secretary, administration, partner progr.
 Drs. Ronald Vonk, University of Amsterdam — member
 Dirk Platvoet, University of Amsterdam — member
 Congress Bureau - hotels, administration, fees, registration

ICC 4 SECRETARIAT

The filled-in first announcement below has to be sent to:

ICC 4
 c/o Wil van Zijl
 University of Amsterdam
 Vakgroep SEP
 P.O. Box 94766
 HL-1090 GT Amsterdam
 The Netherlands

(Tel.: +32 20 525 6635 / 6435 / 5422; Fax.: +32 20 525 5402; E-mail: zijl@bio.uva.nl / schram@bio.uva.nl)

CO - SPONSORING SOCIETIES TO DATE

The Crustacean Society
 Brazilian Crustacean Society
 Crustacean Society of China
 Groupe d'Etudes et de Réflexion sur l'Evolution des Crustacés (GEREM)
 University of Amsterdam

I Plan to participate in the Fourth International Crustacean Congress

Name (Family name): _____ Title: _____ First name(s): _____

Organization/Institute/Department: _____

Address: _____

Telephone: _____ Fax: _____ E-mail: _____

I intend to submit: a poster an oral presentation a paper an abstract _____

relevant to: Systematics Evolution Phylogeny Paleontology Biodiversity Fisheries Pollution
 Toxicology Morphology Development Larval Biology Aquaculture Behavior Physiology
 Ecology Genetics Molecular Biology Biochemistry other

Proposed title of presentation: _____

Accompanying person(s): yes / no Accompanying children: yes / no, nr.: _____ Price class hotel: _____

definite registration not yet definite registration

Please complete and return this form in an envelope as soon as possible, but in any case before August 31, 1996, to:

**4th International Crustacean Congress, c/o Wil van Zijl, University of Amsterdam, Vakgroep SEP,
 P.O. Box 94766, 1090 GT Amsterdam, The Netherlands**

By filling in and sending back this form, you will insure receipt of the 2nd Announcement.



CRUSTACEAN ISSUES

- | | |
|---|---|
| 1. Crustacean Phylogeny
1983, 365 pp., Hfl.230/\$140 | 6. Functional Morphology of Feeding & Grooming in Crustacea
1989, 240 pp., Hfl.205/\$130 |
| 2. Crustacean Growth: Larval Growth
1985, 247 pp., Hfl.205/\$130 | 7. Crustacean Egg Production
1991, 412 pp., Hfl.195/\$120 |
| 3. Crustacean Growth: Factors in Adult Growth
1985, 375 pp., Hfl.230/\$140 | 8. History of Carcinology
1993, 445 pp., Hfl.205/\$130 |
| 4. Crustacean Biogeography
1986, 303 pp., Hfl.205/\$125 | 9. Terrestrial Isopod Biology
1995, 204 pp., Hfl.185/\$110 |
| 5. Barnacle Biology
1987, 364 pp., Hfl.230/\$140 | 10. New Frontiers in Barnacle Evolution
1995, 328 pp., Hfl.205/\$130 |

Order From:

A.A. Balkema Publ., P.O. Box 1675, 3000BR Rotterdam, Netherland
[fax: (31.10) 4135947]

or

A.A. Balkema, Old Post Road, Brookfield, VT 05036 [fax: (802) 276-3867]

Please send me the following book(s):

Name: _____

Address: _____

City & postal code: _____

Postage will not be charged if payment enclosed with order.

Customers from within the EC will be charged 6% Dutch VAT on books. Firms and institutions that have a VAT identification number will be zero charged (0% VAT) if they indicate that number on the order.

VAT No.: _____ Balkema's no. is: NL007105101B01

I enclose:

Payment in Hfl. through Post Office:

° personal check in US\$ or £, or Eurocheque in Hfl.

° On Dutch giro account 27.79.202

° bank draft drawn on a bank in USA (\$) or UK (£)

° On German giro account Ffm 300583-602

Please charge my credit card: American Express/ Eurocard/ Diners Club/ Master Card/ VISA/ Access.

Card Number _____ Expiration Date: _____

Date: _____

Signature: _____

The Crustacean Society

E-MAIL DIRECTORY

(May 1996)



1996 TCS Officers and Board of Governors

President: Dr. Elizabeth L. Wenner
South Carolina Marine Resources Research Institute
Tel: (803) 762-5050; Fax: (803) 762-5110
E-mail: wennere@cofc.edu

President-Elect: Dr. Joel W. Martin
Natural History Museum of Los Angeles County
Tel: (213) 744-3440; Fax: (213) 746-2999
E-mail: jwmartin@bcf.usc.edu

Past-President: Dr. Les Watling
University of Maine
Tel: (207) 563-3146 ext. 248; Fax: (207) 563-3119
E-mail: watling@maine.maine.edu

Secretary: Dr. Franklin H. Barnwell
University of Minnesota
Tel: (612) 625-5700; Fax: (612) 624-6777
E-mail: barnwell@biosci.cbs.umn.edu

Treasurer: Dr. Denton Belk
Our Lady of the Lake University of San Antonio
Tel: (210) 732-8809
Fax: (210) 732-3943

Program Officer: Dr. Thomas G. Wolcott
North Carolina State University
Tel: (919) 515-7866; Fax: (919) 515-7802
E-mail: tom_wolcott@ncsu.edu

Editor, the Ecdysiast: Dr. Timothy D. Stebbins
City of San Diego
Tel: (619) 692-4900; Fax: (619) 692-4902
E-mail: tds@sddpc.sannet.gov

Editor, JCB: Dr. Arthur G. Humes
Boston University
Tel: (508) 548-3705 ext. 208; Fax: (508) 548-7295
E-mail: hahn@bu-bio.bu.edu

Asian Governor: Dr. Ichiro Takeuchi
University of Tokyo
Tel: +81-193-42-5611; Fax: +81-193-42-3715
E-mail: takeuchi@wakame.ori.u-tokyo.ac.jp

European Governor: Dr. Pierre Noël
Museum National d'Histoire Naturelle, Paris
Tel: 33/1.40-79-30-98; Fax: 33/1.40-79-30-89
E-mail: pnoel@mnhn.fr

Indo-Pacific Governor: Dr. Diana S. Jones
Western Australian Museum, Perth
Fax: +61-9-328-8686
E-mail: 42555.jonesd@muswa.dialix.oz.au

Latin American Governor: Dr. Elva G. Escobar-Briones
Instituto de Ciencias del Mar y Limnología UNAM
Tel: (525) 622.5835; Fax: (525) 616.0748
E-mail: escobri@mar.icmyl.unam.mx

North American Governor: Dr. Dorothy M. Skinner
Oak Ridge National Laboratory
Tel: (615) 574-0961; Fax: (615) 575-1274
E-mail: skinnerdm@bioax1.bio.ornl.gov

TCS Business Office: Karen Hickey
The Crustacean Society, Allen Press
Tel: (913) 843-1221; Fax: (913) 843-1274
E-mail: khickey@allenpress.com

Abello, Pere
Institut de Ciències del Mar (CSIC)
Passeig Joan de Borbo s/n
08039 Barcelona SPAIN
BS: 34-3-2216416
FX: 34-3-2217340
E-MAIL: pere@masagran.uab.es

Albers, Nancy E.
3 Sawgrass Road, Apt. C7
Charleston, SC 29412 USA
E-MAIL: albersn@folly.cofc.edu

Baldinger, Adam J.
Dept. of Invertebrate Zoology and Geology
California Academy of Sciences

Golden Gate Park
San Francisco, CA 94118 USA
BS: (415) 750-7089
FX: (415) 750-7090
E-MAIL: abalding@cas.calacademy.org

Barnhisel, Rae
Center for Molecular Evolution
Marine Biological Laboratory
Woods Hole, MA 02543 USA
BS: (508) 548-3705
FX: (508) 457-4727
E-MAIL: barnhisel@evol5.mbl.edu

Barnwell, Frank
Dept. of Ecology & Behavioral Biology

University of Minnesota
318 Church St SE
Minneapolis, MN 55455 USA
BS: (612) 625-5700
FX: (612) 624-6777
E-MAIL: barnwell@biosci.cbs.umn.edu

Bauer, Raymond T.
Department of Biology
Center for Crustacean Research
Univ. of Southwestern Louisiana
Lafayette, LA 70504 USA
BS: (318) 231-6435
FX: (318) 231-5834
E-MAIL: rtbauer@usl.edu

Belk, Denton

840 E. Mulberry Ave.
San Antonio, TX 78212-3194 USA
BS: (210) 732-8809
FX: (210) 732-3943
E-MAIL: None

Berggren, Matz

Kristineberg Marine Research Station
Fiskebaeckskil S-45034 SWEDEN
BS: +46-(0) 523-18532
FX: +46-(0) 523-18503 or +46-(0) 523-18502
E-MAIL: m.berggren@kmf.gu.se

Biesiot, Patricia M.

Department of Biological Sciences
University of Southern Mississippi
Hattiesburg, MS 39406-5018 USA
BS: (601) 266-4751
FX: (601) 266-5797
E-MAIL: pbiesiot@whale.st.usm.edu

Blades-Eckelbarger, Pamela

Darling Marine Center
University of Maine
Walpole, ME 04573 USA
BS: (207) 563-3146
FX: (207) 563-3119
E-MAIL: pamelam@maine.maine.edu

Borowsky, Betty

17 Amherst Court
Rockville Centre, NY 11570 USA
E-MAIL: borowsky@acf2.nyu.edu

Browdy, Craig L.

Waddell Mariculture Center
South Carolina Department of Natural Resources
PO Box 809
Bluffton, SC 29910 USA
BS: (803) 837-3795
FX: (803) 837-3487
E-MAIL: browdycl@musc.edu

Bruce, Niel L.

Zoologisk Museum
University of Copenhagen
Universitetsperken 15
Copenhagen DK2100 DENMARK
BS: +45 35-32-10-21
FX: +45 35-32-10-00
E-MAIL: nlbruce@zmuc.ku.dk

Brusca, Gary J.

Department of Biological Sciences
Humboldt State University
Arcata, CA 95521 USA
BS: (707) 826-3656
FX: (707) 826-3201
E-MAIL: brusceg@axe.humboldt.edu

Brusca, Richard C.

Grice Marine Laboratory
University of Charleston
205 Ft. Johnson
Charleston, SC 29412 USA
BS: (803) 762-5550
FX: (803) 762-5555
E-MAIL: bruscar@cofc.edu

Caldwell, Roy

Department of Integrative Biology
University of California at Berkeley
Berkeley, CA 94720-3140 USA
BS: (510) 642-1391
FX: (510) 643-6264
E-MAIL: 4roy@garnet.berkeley.edu

Camp, David K.

Florida Marine Research Institute
100 Eighth Avenue, S.E.
St. Petersburg, FL 33701-5095 USA
BS: (813) 896-8626
FX: (813) 823-0166
E-MAIL: camp_d@harpo.dep.state.fl.us

Carlton, James T.

Williams College, Mystic Seaport
Maritime Studies Program
Mystic, CT 06355 USA
BS: (203) 572-5359
FX: (203) 572-5329
E-MAIL: james.t.carlton@williams.edu

Castro, Peter

Biological Sciences Department
California State Polytechnic Univ.
Pomona, CA 91768 USA
BS: (909) 869-4069
FX: (909) 869-4396
E-MAIL: pcastro@bronco.is.csupomona.edu

Chang, Ernest S.

Bodega Marine Laboratory
PO Box 247
Bodega Bay, CA 94923 USA
BS: (707) 875-2061
FX: (707) 875-2009
E-MAIL: eschang@ucdavis.edu

Chapman, John

Hatfield Marine Science Center
Oregon State University
Newport, OR 97365 USA
BS: (503) 867-0235
E-MAIL: chapman_j@pebvax.new.epa.gov

Childress, Michael J.

Department of Biological Sciences
Florida State University
Tallahassee, FL 32306 USA
BS: (904) 644-6214

FX: (904) 644-9829

E-MAIL: mchildre@mailers.fsu.edu

Chow, Seinen

5 Chome, 7-1
Orido, Shimizu 424 JAPAN
BS: 81 543-34-0715
FX: 81 543-35-9642
E-MAIL: chow@enyo.affrc.go.jp

Christiansen, Marit E.

Zoological Museum
University of Oslo
Sars GT 1, N-0562 Oslo NORWAY
BS: 47-22851600
FX: 47-22851837
E-MAIL: m.e.christ@toyen.uio.no

Chu, Ka Hou

Marine Science Laboratory
The Chinese University of Hong Kong
Shatin, NT HONG KONG
BS: (852) 26096772
FX: (852) 26035391
E-MAIL: kahouchu@cuhk.hk
and b133707@cucsc.bitnet

Cohen, Anne

3667 Greve Dr.
Rancho Palos Verdes, CA 90274 USA
BS: (213) 744-3473
FX: (213) 746-2999
E-MAIL: 74223.3027@compuserve.com

Cordell, Jeff

University of Washington
260 Fisheries Center WH-10
Seattle, WA 98195 USA
E-MAIL: cordell@fish.washington.edu

Cowles, Dave

Department of Natural Sciences
Loma Linda University
Loma Linda, CA 92350 USA
E-MAIL: dcowles@cmail.llu.edu

Crandall, Keith A.

Department of Zoology
University of Texas
Austin, TX 78712-1064 USA
BS: (512) 471-5661
FX: (512) 471-9651
E-MAIL: crandall@phylo.zo.utexas.edu

Cuesta-Mariscal, Jose A.

Departamento de Ecología
Facultad de Biología
Universidad de Sevilla
Apdo. 1095, E-41080 SPAIN
BS: +34-54-557070.
FX: +34-54-626308
E-MAIL: mariscal@cica.es

Cumberlidge, Neil
Department of Biology
Northern Michigan University
Marquette, MI 49855 USA
E-MAIL: ncumberl@nmu.edu

Dalla-Via, Josef
Institute of Zoology
Technikerstrasse 25
Innsbruck A-6020 AUSTRIA
E-MAIL: josef.dalla-via@uibk.ac.at

Davie, Peter
Queensland Museum
PO Box 3300
South Brisbane, Queensland AUSTRALIA
BS: 61-7-8407719
FX: 61-7-8461918
E-MAIL: p.davie@mailbox.uq.oz.au

Dittel, Ana
University of Delaware
College of Marine Studies
Lewes, DE 19958 USA
BS: (302) 645-4275
FX: (302) 645-4007
E-MAIL: adittel@chopin.udel.edu

Dworschak, Peter C.
Crustaceensammlung
3. Zoologische Abteilung
Naturhistorisches Museum
PO Box 417, Burgring 7
Wien A-1014 AUSTRIA
E-MAIL: pcdwo@zoo.univie.ac.at

Eldredge, L.G.
610 Milokai Street
Kailua, Hawaii 96734 USA
BS: (808) 848-4139
FX: (808) 847-8252
E-MAIL: psa@bishop.bishop.hawaii.org

Endo, Yoshinari
Laboratory of Biological Oceanography
Faculty of Agriculture
Tohoku University
Amamiya, Tsutsumi-dori
Sendai 981 JAPAN
BS: 022-272-4321 ex 300
FX: 022-272-1870
E-MAIL: e21506@cctu.cc.tohoku.ac.jp

Epifanio, C.E.
College of Marine Studies
Hugh R. Sharp Campus
University of Delaware
Lewes, DE 19958 USA
BS: (302) 645-4263
FX: (302) 645-4007
E-MAIL: epi@udel.edu

Escobar-Briones, Elva
Benthic Ecology Lab
Instituto de Ciencias del Mar y Limnología
Universidad Nacional Autónoma de México
A.P. 70-305, 04510 México, DF MEXICO
BS: (525) 622.5835
FX: (525) 616.0748
E-MAIL: escobri@mar.icmyl.unam.mx

Feldmann, Rodney M.
Department of Geology
Kent State University
Kent, OH 44242 USA
BS: (216) 672-2506
FX: (216) 672-7946
E-MAIL: rfeldman@kentvm.kent.edu

Ferrari, Frank
IZ/MSC
Museum of Natural History
Smithsonian Institution
Washington, DC 20560 USA
E-MAIL: ferrarif@simsc.si.edu

Fingerman, Milton
Department of Ecology, Evolution, and
Organismal Biology
Tulane University
New Orleans, LA 70118-5698 USA
BS: (504) 865-5549
FX: (504) 862-8706
E-MAIL: miltonf@mailhost.tcs.tulane.edu

Gable, Michael
Biology Department
Eastern CT State University
Willimantic, CT 06226 USA
BS: (203) 465-5278
FX: (203) 465-5213
E-MAIL: gable@ecsuc.ctstateu.edu

Gannon, Andrew T.
Biological Sciences
Nicholls State University
Thibodaux, LA 70310 USA
BS: (504) 448-4716
FX: (504) 448-4923
E-MAIL: biol-atg@nich-nsunet.nich.edu

Gonzales-Gordillo, Juan Ignacio
Laboratorio de Biología Marina
Facultad de Biología
Apdo. 1095
E-41080 Sevilla SPAIN
BS: +34 (9)5 4234904
FX: +34 (9)5 4233480
E-MAIL: jcgarcia@cica.es

Haefner, Paul A.
Department of Biology, RIT
85 Lomb Memorial Dr.
Rochester, NY 14623-5603 USA

BS: (716) 475-5143
FX: (716) 475-5766
E-MAIL: pahsbi@ritvax.isc.rit.edu

Haley, S.R.
Department of Zoology
University of Hawaii at Manoa
2538 The Mall
Honolulu, HI 96822 USA
BS: (808) 956-8617 or (808) 956-6170
FX: (808) 956-9812
E-MAIL: rhaley@zoogate.zoo.hawaii.edu

Hann, Brenda J.
Department of Zoology
University of Manitoba
Winnipeg, Manitoba R3T 2N2 CANADA
BS: (204) 474-6305
FX: (204) 275-6352
E-MAIL: hann@cc.umanitoba.ca

Hazlett, Brian
Department of Biology
University of Michigan
Ann Arbor, MI 48109 USA
BS: (313) 764-1462
FX: (313) 747-0884
E-MAIL: bhazlett@biology.lsa.umich.edu

Hickey, Karen
Business Office
The Crustacean Society
P.O. Box 1897
Lawrence, KS 66044-8897 USA
BS: (913) 843-1221
FX: (913) 843-1274
E-MAIL: khickey@allenpress.com

Hoeg, Jens
Institute of Zoology
University of Copenhagen
Universitetsparke 15
Copenhagen, DK 2100 DENMARK
BS: 45 31 39 01 93
E-MAIL: cealhoeg@inet.uni-c.dk

Hogarth, Peter J.
Department of Biology
University of York
P.O. Box 373
York YO1 5YW UK
BS: +44-1904-432817
FX: +44-1904-432860
E-MAIL: pjh4@york.ac.uk

Holdich, David M.
Department of Life Science
The University of Nottingham
Nottingham NG7 2RD UK
BS: 01159513219
FX: 01159513251
E-MAIL: plzdmh@pln1.life.nottingham.ac.uk



Holliday, Chuck

Department of Biology
Lafayette College
Easton, PA 18042-1778 USA
BS: (215) 250-5461
E-MAIL: hollidac@lafayette.edu

Holmquist, Jeff G.

Dept. of Marine Sciences
University of Puerto Rico – Mayaguez
Box 908
Lajas, Puerto Rico 00667
BS: (809) 899-1078 ext. 209
FX: (809) 899-5500
E-MAIL: j_holmquist@rumac.upr.clu.edu
or jholmquist@mcimail.com

Hong, Sung Yun

Department of Marine Biology
National Fisheries University of Pusan
599-1 Daekyeon-Dong.
Nam-Gu, Pusan 608-737 KOREA
BS: 82-51-620-6264
FX: 82-51-625-9947
E-MAIL: syhong@sun630cc.nfup.ac.kr

Humes, Arthur

Boston University Marine Program
Marine Biological Laboratory
Woods Hole, MA 02543 USA
BS: (508) 548-3705 ext. 208
FX: (508) 548-7295
E-MAIL: hahn@bu-bio.bu.edu

Hunt, John H.

Florida Marine Research Institute
Suite 119, 2796 Overseas Highway
Marathon, FL 33050 USA
BS: (305) 289-2330
FX: (305) 289-2334
E-MAIL: hunt_j@skelton.dep.state.fl.us

Ikuta, Kyosuke

Institute of Biological Sciences
University of Tsukuba
Ibaraki 305 JAPAN
BS: +81-(0) 298-53-4910
FX: +81-(0) 298-53-6614
E-MAIL: s925094@ipe.tsukuba.ac.jp

Isaac, Dr. M.J.

Department of Adult Continuing Education
University of Wales – Swansea
Singleton Park
Swansea SA2 8PP UK
BS: (+44) 01792-295337
FX: (+44) 01792-295751
E-MAIL: m.isaac@swansea.ac.uk

Jass, Joan P.

Milwaukee Public Museum
800 West Wells Street

Milwaukee, Wisconsin 53233 USA

BS: (414) 278-2761
E-MAIL: jass@mpm1.mpm.edu

Johnston, Danielle

Department of Marine Biology
James Cook University
Townsville 4811, Queensland AUSTRALIA
E-MAIL: danielle.johnston@jcu.edu.au

Jones, John Brian

MAF Fisheries Research Centre
PO Box 297
Wellington NEW ZEALAND
BS: (04) 386-1029
FX: (04) 386-0574
E-MAIL: jbj@frc.maf.govt.nz

Jones, Diana

Department of Crustacea
Western Australian Museum
Francis Street
Perth, WA 6000 AUSTRALIA
FX: +61-9-328-8686
E-MAIL: 42555.jonesd@muswa.dialix.oz.au

Lavery, Shane

Queensland Agricultural Biotechnology Centre
Level 4, Gehrmann Laboratories
University of Queensland
Queensland, QLD. 4072 AUSTRALIA
BS: +61-1-365-4982
FX: +61-7-365-4981
E-MAIL: s.lavery@mailbox.uq.oz.au

Lawton, Peter

Department of Fisheries and Oceans
Biological Station
St. Andrews, New Brunswick EOG 2X0
CANADA
BS: (506) 529-8854 ext. 5919
FX: (506) 529-5862
E-MAIL: lawton@wolves.sta.dfo.ca

Lovett, Donald L.

Department of Biology
Trenton State College
BS: (609) 771-2876
FX: (609) 771-2674
E-MAIL: lovett@trenton.edu

Lovrich, Gustavo A.

Centro Austral de Investigaciones Cientificas
(CADIC)
cc 92 - (9410) Ushuaia
Tierra del Fuego ARGENTINA
FX: 54-901-30644
E-MAIL: lovrich@cadica.edu.ar

Lutz, Charlie

113A Westwood Dr.
Vicksburg, MS 39180 USA

BS: (601) 636-6623
FX: (601) 636-6623
E-MAIL: lutz@elmsg.wes.army.mil

Manning, R.B.

IZ-NHB-163
Smithsonian Institution
Washington, DC 20560 USA
BS: (202) 357-4668
FX: (202) 357-3043
E-MAIL: mnhv010@sivm.si.edu

Martin, Joel W.

Natural History Museum of L.A. County
900 Exposition Blvd
Los Angeles, CA 90007 USA
BS: (213) 744-3440
FX: (213) 746-2999
E-MAIL: jwmartin@bcf.usc.edu

McConaughy, John R.

Department of Oceanography
Old Dominion University
Norfolk, VA 23529 USA
BS: (804) 683-4698
FX: (804) 683-5303
E-MAIL: jrm100@ludwick.naeco.odu.edu

McKinnon, David

Australian Institute of Marine Science
PMB No. 3
Townsville 4810 AUSTRALIA
BS: 61-77-789-211
FX: 61-77-725-852
E-MAIL: d_mckinnon@aims.gov.au

McLay, C.L.

Department of Zoology
University of Canterbury
Private Bag, Christchurch NEW ZEALAND
BS: +64-3-364-2887
FX: +64-3-364-2024
E-MAIL: c.mclay@csc.canterbury.ac.nz

McNamara, John Campbell

Departamento de Biologia
Faculdade de Filosofia Ciencias e Letras
Universidade de Sao Paulo
Ribeirao Preto 14040-900, Sao Paulo BRAZIL
BS: +55-16-633-3255 x. 327
FX: +55-16-633-5015
E-MAIL: jcmcnama@cat.cce.usp.br

Mercado, Neil A.

Penn. State University
Ogontz Campus
1600 Woodland Road
Abington, PA 19001 USA
E-MAIL: nam4@psuvm.psu.edu

Modlin, Richard F.

Department of Biological Sciences
The University of Alabama in Huntsville
Huntsville, AL 35899 USA
BS: (205) 895-6360
FX: (205) 895-6305
E-MAIL: modlinr@email.uah.edu

Morin, Jim

Department of Biology, UCLA
Los Angeles, CA 90024-1606 USA
BS: (310) 825-1674
FX: (310) 206-3987
E-MAIL: morin@biology.lifesci.ucla.edu

Mykles, Donald L.

Department of Biology
Colorado State University
Ft. Collins, CO 80523 USA
BS: (303) 491-7616
FX: (303) 491-0649
E-MAIL: don@lamar.colostate.edu

Noël, Pierre

Biologie des Invertébrés Marins
Muséum National d'Histoire Naturelle
55 rue Buffon
F-75005 Paris FRANCE
BS: 33/1.40-79-30-98
FX: 33/1.40-79-30-89
E-MAIL: pnoel@mnhn.fr

O'Brien, Jack

Department of Biological Sciences
LSB Rm 124
University of South Alabama
Mobile, AL 36688 USA
BS: (334) 460-7525
FX: (334) 414-8220
E-MAIL: jobrien@jaguar1.usouthal.edu

Olmi, Eugene J.

South Carolina Dept. of Natural Resources
PO Box 12559
Charleston, SC 29422 USA
BS: (803) 762-5657
FX: (803) 762-5110
E-MAIL: olmie@cofc.edu

Omori, Makoto

Department of Aquatic Biosciences
Tokyo University of Fisheries
4-5-7 Konan, Minato-ku
Tokyo, 108 JAPAN
E-MAIL: makomori@s4201.tokyo-u-fish.ac.jp

Oshel, Philip

Station A, PO Box 5037
Champaign, IL 61825 USA
E-MAIL: oshel@ux1.cso.uiuc.edu

Palmer, Richard

Dept. of Biological Sciences - J1
University of Alberta
Edmonton, Alberta T6G 2E9 CANADA
E-MAIL: rich.palmer@ualberta.ca

Poore, Gary C. B.

Museum of Victoria
71 Victoria Crescent
Abbotsford, Victoria 3067 AUSTRALIA
BS: 61-3-284-2015
FX: 61-3-416-0475
E-MAIL: gpoore@mov.vic.gov.au

Rabalais, Nancy

Louisiana University Marine Consortium
8124 Highway 56
Chauvin, LA 70344 USA
E-MAIL: nrabalais@smtpgw.lumcon.edu

Ramos, Gabriel E.

Departamento de Biología
Universidad del Valle
Apartado Aereo 24262
Cali COLOMBIA
FX: 57-23 3392440
E-MAIL: geramos@hypatia.univale.edu.co

Richardson, Alastair

Department of Zoology
University of Tasmania
Box 252C, GPO
Hobart, Tasmania 7001 AUSTRALIA
BS: (61-02) 202593
FX: (61-02) 202745
E-MAIL: alastair.richardson@zoo.utas.edu.au

Roberts, Larry S.

27700 SW 164 Ave.
Homestead, FL 33031 USA
BS/FX: (305) 245-3310
E-MAIL: lroberts@umiami.ir.miami.edu

Rodriguez, Gilberto

Instituto Venezolano de Investigaciones Científicas
Apartado 21827
Caracas 1020A VENEZUELA
BS: (02) 501 1192
FX: (02) 501 1088 or (02) 572 7446
E-MAIL: grodrigu@oikos.ivic.ve

Sandberg, Lennart

Department of Invertebrate Zoology
Swedish Museum of Natural History
Box 50007
Stockholm S-104 05 SWEDEN
BS: +46 (0)8 666-4126
FX: +46 (0)8 666-4125
E-MAIL: ev-lennart@nrm.se

Sandford, Floyd R.

Department of Biology
Coe College
Cedar Rapids, IA 52402 USA
BS: (319) 399-8576
FX: (319) 399-8748
E-MAIL: fsandfor@coe.edu

Schiller, Craig

NSW Fisheries
Narrandera Fisheries Centre
Narrandera, NSW 2700 AUSTRALIA
BS: 61-69-591488
FX: 61-69-592935
E-MAIL: nswfish@oz-email.com.au

Schram, Frederick R.

Institute for Systematics & Population Biology
University of Amsterdam
Post Box 94766
NL-1090 GT Amsterdam The Netherlands
BS: +(31.20)525.6435
FX: +(31.20)525.5402
E-MAIL: schram@mail.bio.uva.nl

Shields, Jeff

CBNERRS-VA
P.O. Box 1346
Gloucester Point, VA 23062 USA
E-MAIL: jeff@vims.edu

Shirley, Tom

School of Fisheries and Ocean Sciences
University of Alaska - Fairbanks
11120 Glacier Highway
Juneau, AK 99801 USA
BS: (907) 789-4449
E-MAIL: jftcs@acad1.alaska.edu

Skinner Dorothy

Oak Ridge National Laboratory
Biology Division
P.O. Box 2009
Oak Ridge, TN 37831 USA
BS: (615) 574-0961
FX: (615) 575-1274
E-MAIL: skinnerdm@bioax1.bio.ornl.gov

Smith, L. David

Smithsonian Environmental Research Center
PO Box 28
Edgewater, MD 21037 USA
E-MAIL: smith@serc.si.edu

Sorgeloos, Patrick

State Univ. Artemia Reference Center
University of Ghent
Rozier 44
Ghent B-9000 BELGIUM
BS: +32-9-2643754
FX: +32-9-2644193 or +32-55-302871
E-MAIL: patrick.sorgeloos@rug.ac.be



Staton, Joe

Department of Biology
University of Michigan
Ann Arbor, MI 48109 USA
E-MAIL: jstaton@umich.edu or
joe.staton@um.cc.umich.edu

Staude, Craig P.

Friday Harbor Laboratories
University of Washington
620 University Road
Friday Harbor, WA 98250 USA
E-MAIL: staude@fh1.washington.edu

Stebbins, Timothy D.

Marine Biology Laboratory
City of San Diego Ocean Monitoring Program
4918 North Harbor Drive, Suite 101
San Diego, CA 92106 USA
BS: (619) 692-4900
FX: (619) 692-4902
E-MAIL: tds@sddpc.sannet.gov

Suzuki, Hiroshi

Marine Biology Laboratories
Faculty of Fisheries, Kagoshima University
Shimoarata 4-50-20, Kagoshima 890 JAPAN
BS: 0992-86-4143
FX: 0992-86-4133
E-MAIL: suzuki@zero.fish.kagoshima-u.ac.jp

Svavarsson, Jorundur

Institute of Biology
University of Iceland
Grensasvegi 12
108 Reykjavik ICELAND
E-MAIL: jorundur@rhi.hi.is

Swain, Roy

Zoology Department
University of Tasmania
Box 252 C, GPO Hobart
Tasmania 7001 AUSTRALIA
BS: (61-02) 202610
FX: (61-02) 202745
E-MAIL: roy.swain@zoo.utas.edu.au

Takeuchi, Ichiro

Otsuchi Marine Research Center
Ocean Research Institute
The University of Tokyo
Akahama, Otsuchi, Iwate 028-11 JAPAN
BS: +81-193-42-5611
FX: +81-193-42-3715
E-MAIL: takeuchi@wakame.ori.u-tokyo.ac.jp

Tirmizi, Dr. N.M.

Marine Reference Collection and Resource Centre
University of Karachi
Karachi-75270 PAKISTAN

BS: 92-21-4968528
FX: 92-21-4961365
E-MAIL: tirmizi@mrc.khi.erum.com.pk

Torres, Elizabeth

Department of Biology
University of California, Los Angeles
405 N. Hilgard Ave.
Los Angeles, CA 90024-1606 USA
BS: (310) 825-5014
E-MAIL: lisat@biology.lifesci.ucla.edu

Tsukimura, Brian

Department of Biology
California State University, Fresno
2555 E. San Ramon Ave.
Fresno, CA 93740-0073 USA
BS: (310) 825-5014
E-MAIL: brian_tsukimura@csufresno.edu

Tudge, Chris

Department of Zoology
University of Queensland
Brisbane, QLD 4072 AUSTRALIA
E-MAIL: zl144699@mailbox.uq.oz.au

Vega, Francisco J.

Instituto de Geologia, UNAM
Ciudad Universitaria, Coyoacan
Mexico, D.F. 04510 MEXICO
BS: (52-5) 622-4288
FX: (52-5) 550-6644
E-MAIL: vegver@redvax1.dgsca.unam.mx

Venn, Cynthia

Geoscience Department
Indiana University of PA
Indiana, PA 15705-1087 USA
BS: 412-357-2379
FX: 412-357-5700
E-MAIL: cvenn@grove.iup.edu

Watling, Les

Darling Marine Center
University of Maine
Walpole, ME 04573 USA
BS: (207) 563-3146 ext. 248
FX: (207) 563-3119
E-MAIL: watling@maine.maine.edu

Wardrup, Pam C.

School of Fisheries, WH-10
University of Washington
Seattle, WA 98195 USA
BS: (206) 685-0981
FX: (206) 685-7471
E-MAIL: pwardrup@fish.washington.edu

Weeks, Stephen C.

Department of Biology

University of Akron
Akron, OH 44325-3908 USA
BS: (216) 972-7156
FX: (216) 972-8445
E-MAIL: r1scw@vm1.cc.uakron.edu

Wenner, Adrian

Department of Biology
University of California
Santa Barbara, CA 93106 USA
BS/LAB (805) 893-2838
FX: (805) 893-4724
E-MAIL: wenner@lifesci.lscf.ucsb.edu

Wenner, Elizabeth

Marine Resources Research Institute
Box 12559
Charleston, SC 29422 USA
BS: (803) 762-5050
FX: (803) 762-5110
E-MAIL: wennere@cofc.edu

Wetzer, Regina

Department of Biological Sciences
University of South Carolina
Columbia, SC 29208 USA or
Grice Marine Laboratory
University of Charleston
205 Ft. Johnson
Charleston, SC 29412 USA
BS: (803) 777-3942
FX: (803) 777-3935
E-MAIL: rwetzer@univscvm.csd.sc.edu or
(USC) or bruscar@cofc.edu (Grice)

Wicksten, Mary K.

Department of Biology
Texas A&M University
College Station, TX 77843-3258 USA
FX: (409) 862-1977
E-MAIL: wicksten@bio.tamu.edu

Wilber, Pace

Coastal Ecology Branch, ER-C
USAE Waterways Experiment Station
3909 Halls Ferry Road
Vicksburg, MS 39180 USA
BS: (601) 634-4258
FX: (601) 634-4016
E-MAIL: wilber@elmsg.wes.army.mil

Wilson, George D.F. (Buz)

Australian Museum
Div. Invertebrate Zoology (Crustacea)
PO Box A285
Sydney South, NSW 2000 AUSTRALIA
BS: 61-2-339-8287
FX: 61-2-360-4350
E-MAIL: buz@extro.ucc.su.oz.au or
buzw@amsg.austmus.oz.au (Museum direct)

Wolcott, Donna

Marine, Earth & Atmospheric Sciences
Box 8208, 1125 Jordan Hall
NC State University
Raleigh, NC 27695-8208 USA
BS: (919) 515-6207
FX: (919) 515-7802
E-MAIL: dwolcott@ncsu.edu

Wolcott, Tom

Marine, Earth & Atmospheric Sciences
Box 8208, 1125 Jordan Hall
NC State University
Raleigh, NC 27695-8208 USA
BS: (919) 515-7866
FX: (919) 515-7802
E-MAIL: tom_wolcott@ncsu.edu

Yager, Jill

Biology Department
Antioch College
Yellow Springs, OH 45387 USA
E-MAIL: jyager@college.antioch.edu

Young, Alan M.

Biology Department
Salem State College
Salem, MA 01970 USA
BS: (508) 741-6710
FX: (508) 741-6141
E-MAIL: ayoung@mecn.mass.edu



