



# THE ECDYSIAST

## *Newsletter of the Crustacean Society*

*Ecdysiast* Editor: Ray Bauer, Department of Biology, University of Southwestern Louisiana, Lafayette, LA 70504-2451, USA; telephone:318-231-6435, fax 5834

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### MESSAGE FROM THE PRESIDENT

Once again, the Crustacean Society is undergoing a period of change, evolving in an effort to meet the needs of its members. For some time now, there has been considerable discussion about whether the Society should continue to meet with the American Society of Zoologists. This past summer, and in 1992, and in fact about 10 years ago (as Darryl Felder keeps reminding me), we held a summer meeting in addition to the Christmas meeting of the ASZ. The summer meetings appear to attract approximately the same number of members as the Christmas meeting, but only a few of the members (not counting the board members) have attended both meetings. It seems, therefore, that the Society could possibly support both a summer and winter meeting--perhaps provided that the summer meeting is held at a venue, such as a marine lab or inland field station, where overhead costs are low. If we are to proceed with holding both summer and Christmas meetings, the problem then arises as to where and when the annual business meeting should be held, among other things.

Because this year's ASZ meeting is being held in St. Louis, and there seemed to be little enthusiasm on the part of many members for attending that meeting (The Crustacean Society has no Symposia planned or co-sponsored), the Board voted to minimize our activities with ASZ this year. ASZ 1995 will be in Washington D.C. and will be held as usual after Christmas. We expect to have a significant presence at the Washington meeting, and we plan to hold the 1995 annual business meeting in Washington. All this has suggested to the Board that it might be worthwhile to alternate, between summer and Christmas, the sites of the business meeting, thus permitting as wide a representation of the general membership as possible.

A summer 1995 meeting is currently being planned by Darryl Felder and Ray Manning for the Ft. Pierce, Florida region. In addition, there is also an offer on the table to hold the 1996 summer meeting at the Virginia Institute of Marine Science in Gloucester Pt., VA. The Board is open to other suggestions, nominations etc. for summer meeting sites and has taken the attitude that a summer meeting will

be held whenever members volunteer to organize one. In the meanwhile, we will continue to meet with the ASZ, with the degree of the Society's participation being determined by the organization of symposia and other meeting activities. To a certain extent this will be ad hoc, but it will allow the members to vote with their travel budgets their preferences.

I sincerely hope that the last minute changes regarding this year's meeting in St. Louis do not in any way disadvantage someone who was expecting a larger presence of the Crustacean Society. Please feel free to contact me with any opinions you have on this matter. I can be reached by FAX at 207-563-3119 or e-mail at [Watling@Maine.Maine.edu](mailto:Watling@Maine.Maine.edu). (Les Watling, TCS President)

## TCS-ASZ WINTER MEETINGS IN ST. LOUIS

The Crustacean Society will hold its winter meetings with the American Society of Zoologists and other associated societies from January 4-8, 1995, at the Adams Mark Hotel, St. Louis, Missouri. This time slot is new (experimental) for the winter meetings; the meetings will revert back to the late December time period for the 1995 meetings in Washington, D.C. Bob Elner, TCS Program Officer, reports that there will be contributed paper and poster sessions on a diverse array of topics. A TCS Business meeting will be held, but there are no plans for either a TCS Board meeting or a TCS Dinner/Social.

**Workshop:** Denton Belk has planned and will chair an organization meeting of the "Inland Waters Crustacea Specialist Group of the Species Survival Commission IUCN-the World Conservation Union." All individuals interested in the conservation of crustaceans inhabiting non-marine, inland waters in any part of the world are urged to attend this workshop. One job of the IWCSG will be to contribute to a total revision of the IUCN Red List to be published at the end of 1996.

Please remember that registration for these meetings is done through ASZ (contact ASZ Executive Offices, 401 N. Michigan Avenue, Chicago, Illinois, 60611-4267; tel. 312-527-6997; fax 6640). Registration packets are also available through Bob Elner (Canadian Wildlife Service, P.O. Box 340, Delta, B.C., V4K 3Y3, Canada; tel. 604-946-8546; fax 7022). Registration fees are the following: Advance Full, \$230; On-Site Full, \$250; Advance Post-doc, \$150; On-site Postdoc, \$175; Advance Student, \$75; On-site Student, \$100; Special One-day, \$130; Advance Guest, \$60; On-site Guest, \$75.

**Student Support Program:** ASZ will provide funding through the Student Support Fund for students to attend the meetings. All students who receive assistance will be required to work two shifts of audio/visual support during the meetings. For application and further information, contact ASZ headquarters (address given above).

## **ANOTHER SUCCESSFUL TCS SUMMER MEETING: MAINE 1994**

The second summer meeting of TCS was held from June 22 to 25, 1994 at the Darling Marine Center of the University of Maine. The meeting opened with welcomes from Center Director Kevin Eckelbarger and TCS President Les Watling. The program consisted of 27 papers and 24 posters covering all phases of crustacean biology. Presentations were from the USA (34), Mexico (4), Brazil (4), Canada (3), Australia (3), France (2), and Finland (1). Refreshment breaks, lunches, a barbecue, and a New England lobster bake provided ample occasions for interactions and continuing discussions. The helpfulness and support of the Center staff and students was outstanding. Tours of the modern marine lab on the bank of the Damariscotta River and an after-meeting boat trip to Monhegan Island were further opportunities for interactions and a chance to sample DownEast coastal life and hospitality. (Frank Barnwell, TCS Secretary)

## ***TCS SUMMER MEETINGS 1995: FORT PIERCE, FLORIDA***

Darryl Felder and Ray Manning are organizing a summer (late spring) meeting for May 25-27, 1995 at the Smithsonian marine station at Link Port, Fort Pierce, Florida. A meeting flyer (xerox it, pass it on, post it up in your department), abstract transmittal and registration forms, and information about the meetings are all included here in the *Ecdysiast* (last four pages).

**RESULTS OF QUESTIONNAIRE ON SUGGESTIONS TO AID TCS FINANCIAL STATE**  
Many thanks to those who returned the questionnaire to Denton Belk, TCS treasurer, concerning ideas of how to maintain a sound TCS financial condition; many also sent other thoughts and comments which will be considered by the Society. Listed below are the possible solutions suggested with the responses from the membership:

1. Limit # journal pages: 25 like, 74 dislike
2. Prepaid page charges: 33 like, 66 dislike

3. Encourage more Supporting Members: 92 like, 11 dislike
4. Drop Subscribing Member category: 40 like, 56 dislike
5. Student Memberships (\$50, 3-4 year limit): 59 like, 38 dislike
6. Increase library subscription rate: 62 like, 40 dislike

**FREE ACCESS AND DOCUMENT DISCOUNTS, "UnCover" DATA BASE**

Denton Belk informs us of a new benefit for TCS members: FREE access to UnCover Data Base and DISCOUNT on Document Delivery. The Crustacean Society recently arranged with the UnCover Company to provide our members free on-line searching of the UnCover data base of periodical tables of contents. In addition, users of this special service can order delivery of full text of articles from UnCover at the lowest available document delivery fee. Normally, only UnCover subscribers who pay an annual access fee (currently \$900) are eligible for the lowest document delivery fee.

This new service is known as *Access to UnCover*. To use this service need only to access the Internet and Telnet to the Access to Uncover address: allen.carl.org. At the prompt, they enter the Password DELIVER.

The Uncover data base contains the tables of contents of over 15,000 scholarly journals. Searches can be made by title key word or by author. Copies of full text of articles can then be ordered on-line; they are delivered via fax, usually within 24 hours. Payment for document delivery is made either by credit card or through a deposit account. We have made this arrangement with UnCover because it provides our members with a convenient and inexpensive way to take advantage of the new on-line searching technologies in their research.

**SOME NOTES FROM THE PRESIDENT-ELECT**

**Ballot Reminder:** All members are reminded that ballots for officers and board members must be submitted by Dec. 1. They may be mailed to: Elizabeth Wenner, Marine Resources Research Institute, Box 12559, Charleston, SC 29422 or faxed to her at 803-762-5110. This is your Society so please VOTE.

**Information Superhighway:** In an attempt to ride the "Information Superhighway," TCS members are encouraged to submit their e-mail addresses for future updates of the membership director. Elizabeth Wenner will be compiling this information, so please send your name, institution address, phone, FAX, and e-mail address to her at: Marine Resources research Institute, Box 12559, Charleston, SC 29422; tel. 803-762-5050, fax 5110; e-mail: wennere@cofc.edu (internet).

**UPCOMING MEETINGS:**

**North Pacific Symposium on Invertebrate Stock Assessment and Management:** March 6-10, 1995, Coast Bastion Inn, Nanaimo, British Columbia, Canada. The major theme will be on changing fisheries approaches to benthic invertebrate stock assessment and management. The deadline for submission of abstracts has recently passed but program and registration details can be obtained from the convenor, Dr. Glen Jamieson, Symposium Chairman (tel. 604-756-7223, fax 7138) or from Mrs. Ann Thompson, Symposium Coordinator (tel. 604-756-7260, fax 7053), Dept. Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C. V9R 5K6 Canada.

**International Symposium on Biology, Management, and Economics of Crabs from High Latitude Habitats:** A 3-day crab symposium is planned for October 11-13, 1995, in Anchorage, Alaska. A one-page abstract (both hard copy and computer disk containing the abstract in any standard word processor) should be submitted by August 31, 1994, to the symposium coordinator: Brenda Baxter, Alaska Sea Grant College Program, University of Alaska Fairbanks, P.O. Box 755040, Fairbanks, AK, 99775-5040 (tel. 907-474-6701, fax 6285).

**Third International Large Branchiopod Symposium:** This international symposium will take place at the University of San Diego, San Diego, California, July 14-20, 1996. TCS is one of the sponsors. Preliminary details can be obtained from Denton Belk (840 E. Mulberry Ave., San Antonio, Texas 78212-3194; tel. 210-732-8809, fax 3943).

**Marine Biological Association, U.K., Crustacean Biology Meeting.** This meeting is in honor of Professor Ernest Naylor and will take place April 1-3, 1996 at the University of Plymouth. Contact Dr. M.B. Jones, Department of Biological Sciences, University of Plymouth, Drake Circus, Plymouth, PL4 8AA, England (tel. +44-0-752-232900).

**REPORT ON THE RECENT DECAPOD WORKSHOP, WALES**

Approximately 2 dozen researchers from the United Kingdom, Italy, Japan, Hong Kong, Canada and the USA participated in a uniquely successful "Decapod Workshop" at the University of Wales, Bangor, UK, Sept. 15-17, 1994. The workshop was convened by Roger N. Hughes and Ray Seed with sponsorship from the Association for Studies in Animal Behaviour and the University of Wales. Broad themes included aggression and competition, foraging, reproduction, life history strategies and movement. Participants explored new ways to foster a collaborative, multidisciplinary approach (principally behavior and endocrinology) and experimentation to elucidate underlying mechanisms to these themes. A major goal is

to enable the fitness consequences of behavior to be ascertained with unprecedented rigour. Presentations are to be published in a special issue of the Journal of Experimental Marine Biology and Ecology in 1995. (from Bob Elner)

**PLEASE, SEND IN THOSE ITEMS OF INTEREST TO SOCIETY MEMBERS TO THE ECDYSIAST!!**

Your TCS newsletter is a forum for transmission of information, opinion, news, ideas etc. etc. among Society members. Please send mail or fax those items in to Ray Bauer, *Ecdysiast* editor, Department of Biology, University of Southwestern Louisiana, Lafayette, LA 70504-2451, USA; telephone:318-231-6435, fax 5834

## **ON THE FOLLOWING PAGES, SEE ALSO:**

**NEWS FROM THE INLAND CRUSTACEA SPECIALIST GROUP**

**AND**

**CRUSTACEAN BIOLOGY DISCUSSION LIST (INTERNET, BITNET)**

**AND**

**INFORMATION, REGISTRATION, ABSTRACT, FLYER FOR FORT PIERCE MEETING**

## NEWS FROM THE

### Inland Waters Crustacea Specialist Group, Species Survival Commission of IUCN

Denton Belk, Chair 840 E. Mulberry Ave. San Antonio, TX 78212 USA Phone 210-732-8809 Fax 210-732-3943

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#### INLAND WATERS CRUSTACEA SPECIALIST GROUP FORMED

IUCN - The World Conservation Union authorized establishment of a Specialist Group to focus on non-marine, inland waters, crustaceans within The Species Survival Commission. "By focusing on the conservation status of species, SSC promotes a more comprehensive understanding of what biodiversity is, where it is most threatened, and what must be done to conserve biodiversity on a global scale. Its special role is to inform the world conservation community on the needs of critically endangered species and their habitats, to establish conservation priorities and to mobilize appropriate action." *A Global Network for Species Survival* (IUCN, 1990). The SSC Chairman is Dr. George B. Rabb who is Director of the Chicago Zoological Park in Brookfield, Illinois, USA. Dr. Denton Belk is Chair of the Inland Waters Crustacea Specialist Group.

#### FIRST MEETING OF IWCSG SCHEDULED FOR JANUARY 1995 AT ASZ/TCS MEETING

The initial meeting of the newly formed Inland Waters Crustacea Specialist Group will be held during the ASZ/TCS Meeting 5-8 January 1995 in St. Louis, Missouri, USA. Please check the meeting program for exact time and place under the title Workshop: Protecting the Crustacea of Inland Waters. Everyone interested in the conservation of crustaceans inhabiting non-marine waters in any part of the world is urged to attend. One job of the IWCSG will be to contribute to a total revision of the IUCN Red List to be published at the end of 1996.

#### FOUR CALIFORNIA VERNAL POOL CRUSTACEA LISTED AS ENDANGERED OR THREATENED

On September 19, 1994, the United States Fish and Wildlife Service designated the Conservancy fairy shrimp (*Branchinecta conservatio*), the longhorn fairy shrimp (*Branchinecta longiantenna*), and the vernal pool tadpole shrimp (*Lepidurus packardii*) as endangered. The vernal pool fairy shrimp (*Branchinecta lynchi*) was designated as threatened. In a news release, the Service noted, "The four listed species are imperiled by a variety of factors that were the subject of the Interior Department agency's scientific review, including commercial and residential development, agricultural land conversion, off-road vehicle use, the proliferation of non-native noxious weeds, random disposal of garbage, and potential extinction due to the small, isolated nature of the remaining populations. Based on current trends, on-going damage and destruction of vernal pools in California could destroy 60 to 70 percent of these pools in the next 10 to 20 years. The rate of habitat destruction is a major reason why the agency judged existing protections as inadequate to conserve the survival of these species." Baskin (1994; *BioScience* 44:384-388) presents a discussion of the ephemeral vernal pools of California; their problems and potentials. For additional information, contact Christopher D. Nagano, U.S. Fish & Wildlife Service, 2800 Cottage Way E-1823, Sacramento, CA 95825, phone 916-978-4866.

#### CRUSTACEA LISTED AS ENDANGERED OR THREATENED UNDER USA LAW

This list based on the most recent compilation (August 23, 1993) published by the U.S. Fish and Wildlife Service. Copies of the complete list are available from the Publication Unit, U.S. Fish & Wildlife Service, 130-WEBB, Washington, D.C. 20240, USA.

Hay's Spring Amphipod  
Hell Creek Cave crayfish  
no common name  
Nashville crayfish  
Shasta Crayfish  
Lee County cave isopod  
Madison Cave isopod  
Socorro isopod  
Alabama cave shrimp  
California freshwater shrimp  
Kentucky cave shrimp  
Riverside fairy shrimp  
Squirrel Chimney Cave shrimp

*Stygobromus hayi*  
*Cambarus zophonastes*  
*Cambarus aculabrum*  
*Orconectes shoupi*  
*Pacifastacus fortis*  
*Lirceus usdagalun*  
*Antrolana lira*  
*Thermosphaeroma thermophilus*  
*Palaemonias alabamiae*  
*Syncaris pacifica*  
*Palaemonias ganteri*  
*Streptocephalus woottoni*  
*Palaemonetes cummingi*

## A CRUSTACEAN BIOLOGY DISCUSSION LIST

The Department of Invertebrate Zoology of the National Museum of Natural History, Smithsonian Institution, Washington, D.C. 20560, is pleased to announce the establishment of:

CRUST-L@SIVM.SI EDU [Internet]  
or  
CRUST-L@SIVM [BITNET]

CRUST-L is an unmoderated discussion list for scholars and students of Crustacean Biology, which, for our present purposes, comprises any matters related to the systematics, distribution, and ecology of members of the arthropod Subphylum Crustacea. Announcements will be made in English and subscribers may use the language of their choice. Translations, however, will not be provided.

Subscribers are reminded that discussion lists are intended to facilitate discussion rather than to provide services. The benefits that participants receive will, therefore, depend upon what they are willing to contribute.

To subscribe, e-mail `LISTSERV@SIVM.SI.EDU` on the Internet or `LISTSERV@SIVM` on BITNET, with the BODY of the mail containing the command:

`SUB CRUST-L your name`

[e.g., `SUB CRUST-L John Doe`]

To temporarily stop receiving mail (while on vacation, for instance), send the following message to one of the `LISTSERV` addresses given above:

`SET CRUST-L NOMAIL`

When you return, send the following message in a similar manner:

`SET CRUST-L MAIL`

To unsubscribe, address as above and say:

`SIGNOFF CRUST-L`

The listowners are Jan Clark, Collections Manager; Bill Hart, Curator; and Jim Thomas, Curator. All are in the Division of Crustacea of the Dept. of Invertebrate Zoology.

If you encounter difficulties, contact:

Jan Clark	<code>MNHIV002@SIVM.BITNET</code> or <code>MNHIV002@SIVM.SI.EDU</code>
Bill Hart	<code>MNHIV008@SIVM.BITNET</code> or <code>MNHIV008@SIVM.SI.EDU</code>
Jim Thomas	<code>MNHIV040@SIVM.BITNET</code> or <code>MNHIV008@SIVM.SI.EDU</code>



## ANNOUNCEMENT - THE CRUSTACEAN SOCIETY 1995 SUMMER MEETING

The TCS Summer Meeting has been scheduled for May 25-27, 1995 (Thursday through Saturday) in Ft. Pierce, Florida. The meeting will be officially hosted by the Smithsonian Marine Station at Link Port, located on properties of the Harbor Branch Oceanographic Institution (HBOI) between the cities of Ft. Pierce and Vero Beach, Florida. These facilities are located on biogeographically unique Indian River Lagoon of Florida's Atlantic coast, a region in which there is striking transition from tropical to warm-temperate biotic assemblages. The formal meeting sessions will be held in the auditorium of the J. Seward Johnson Marine Education and Conference Center on the HBOI property. The auditorium features a rear-projection stage screen and an array of modern audio visual equipment suited to simultaneous handling of slides, video tapes, video discs, movie film, overhead, and realtime macro- or microvideo images. Housing is available in a variety of hotels within a short commute from the facility. The meeting site is easily accessed by rental car from Miami, Orlando, or West Palm Beach International airports or Melbourne Regional airport. Alternatively, commuter connections are available from Miami or Orlando International Airports directly to the Vero Beach Municipal Airport (about a 15-minute drive from HBOI).

Papers and posters on all subdisciplines of crustacean biology are invited for presentation. Oral presentations may be in English or Spanish. Further detail on special audio visual equipment can be furnished on request. Central and South American carcinologists are especially encouraged to participate, given convenience of travel to south Florida. Meeting proceedings will not be published formally, but abstracts will be distributed with the meeting program. Planned activities include field trips to selected habitats of the Indian River region. The official call for papers, along with abstract forms and advance registration forms, will be issued in the Society's newsletter The Ecdysiast, or may be obtained by writing to either of the meeting organizers, Dr. Raymond B. Manning, Department of Invertebrate Zoology, National Museum of Natural History, Washington, D.C. 20560, USA, or Dr. Darryl L. Felder, Department of Biology, University of Southwestern Louisiana, Lafayette, LA 70504, USA.

# THE CRUSTACEAN SOCIETY

## 1995 Summer Meeting

### PREREGISTRATION FORM

**Deadline for Preregistration is 25 February 1995**

Name to appear on your badge \_\_\_\_\_

Names to appear on badges for spouse/children \_\_\_\_\_  
\_\_\_\_\_

Your name, institutional affiliation, and mailing address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: Work \_\_\_\_\_ Home \_\_\_\_\_

FAX \_\_\_\_\_ EMAIL \_\_\_\_\_

Number	Item	Total US\$
_____	TCS Member Registration @ \$65	\$ _____
_____	Nonmember Registration @ \$85	\$ _____
_____	Cuban dinner party @ \$20	\$ _____
_____	Field trip @ \$12	\$ _____
_____	TCS New Membership (1995) @ \$50	\$ _____
	Total enclosed	\$ _____

Mail or FAX completed form to:

R.B. Manning  
IZ-NHB 163  
Smithsonian Institution  
Washington, DC 20560 USA

FAX: (202) 357-3043 (Office) or (703) 560-7062 (home)  
E MAIL: MNHIV010@SIVM.SI.EDU

The Crustacean Society 1995 Summer Meeting  
25-27 May 1995

ABSTRACT TRANSMITTAL FORM

Please complete (typewritten) and return by 25 February 1995 to: R.B. Manning, IZ-NHB 163, Smithsonian Institution, Washington, DC 20560 USA. If sent by FAX original must be subsequently received in order for abstract to be included in abstract booklet. Acknowledgement of receipt of abstract will be by postcard and Email. *Hotel reservation forms and travel information will be sent with preregistration acknowledgment.*

Author(s), last name first: \_\_\_\_\_

Institution of first author: \_\_\_\_\_

Address of first author: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Paper to be presented orally \_\_\_\_\_ or as poster \_\_\_\_\_ (please check one).

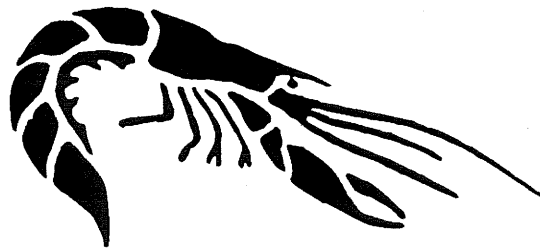
Abstract: Please use English or Spanish. Also, please use clear type, no smaller than 12 pitch or 10 point, using the example below. If dot-matrix printer is used, be sure print is dark. For oral presentation, please indicate speaker with an asterisk (\*). Use all capital letters for title. Indent first line of abstract. Entire abstract must fit within a 3" x 6" box so that three abstracts can be printed on each page in the abstract booklet. The box below can be used to help frame your abstract.

Carid, Hoplo, Carid, Eu, and Carid, Pera\*. Department of Crustacean Phylogenetics and General Genealogy, Crustaceous University, Elsewhere.

Three divergent but equally valid viewpoints about the advantages and utility of a carapace are presented. Take your pick.

**THE CRUSTACEAN SOCIETY**

**1995 Summer Meeting**  
(Open to anyone interested in Crustacea)



25-27 May 1995

SMITHSONIAN MARINE STATION AT LINK PORT  
FORT PIERCE, FLORIDA

Darryl L. Felder and Raymond B. Manning, co-organizers

Rafael Lemaitre, Latin American Liaison

William D. (Woody) Lee, Local Arrangements Liaison