



# THE ECDYSIAST

Newsletter of the Crustacean Society

Volume 17, Number 1

May 1998

## Message from the President

As President-Elect of The Crustacean Society as 1997 came to a close, it was my duty and pleasure to conduct the fall balloting for a number of Society offices. The results of that voting, confirmed by the Board of Governors in the spring of 1998, were as follows:

President-Elect: Jens T. Høeg  
Program Officer: Jack O'Brien  
Latin American Governor: Elva Escobar-Briones  
Asian Governor: Peter Ng

Thus, our slate of officers for 1998 is:

President: Joel W. Martin  
President-Elect: Jens T. Høeg  
Past President: Elizabeth L. Wenner  
Secretary: Frank Barnwell  
Treasurer: Alan Harvey  
Program Officer: Jack O'Brien  
JCB Editor: Arthur Humes  
Ecdysiast Editor: Tim Stebbins

### Board of Governors

North America: Rafael Lemaitre  
Indo-Pacific: Gary Poore  
Asia: Peter Ng  
Latin America: Elva Escobar-Briones  
Europe: Pierre Noel

For a full listing of the society's officers and their contact numbers, please see the box on page 2 of this newsletter.

I am honored and privileged to be working with such a strong and capable group of officers, and I foresee many changes, developments, and challenges in the months ahead. Although I am delighted with all of

the election results, the election of Jens T. Høeg as TCS President-Elect is particularly pleasing to me, as I feel that it signifies our growing presence as a truly global Society. This is also reflected in our commitment to international meetings, and I know we are all looking forward to Amsterdam and the many opportunities

## TCS Summer 1998 Amsterdam

for growth and interchange there (meeting contacts and information are found elsewhere in this issue).

There are, of course, major challenges facing the Society, and the waters ahead are far from settled. Our most pressing concern continues to be finding a replacement for Arthur Humes as editor of JCB (see advertisement posted later in this issue). Although the universal sentiment is that

Arthur could never be replaced (this is by far the most common response whenever we mention the need to find a new editor), nevertheless the day will come all too soon when he will deservedly accept our thanks and step down. Thus, I strongly encourage all of you to give serious thought to this matter, and to forward any ideas or names of potential candidates to Les Watling, who is heading the search on behalf of the Society.

The winter 1998 TCS meetings, held in conjunction with the SICB meeting in Boston, were very successful. I was pleased to see such a strong turnout for "The Complete Crustacean Biologist" symposium honoring Dorothy Skinner, and we are all grateful to Don Mykles and Linda Mantel for organizing that very fitting tribute to a marvelous biologist and wonderful person. Although attendance at SICB meetings is lower than it was in past years, before we started meeting separately during the summer months, I genuinely hope that all of you will consider joining us for future winter meetings under the SICB auspices. Much is to be gained in attending these joint sessions where scientists from other disciplines also are present, not the least of which is a broader job market and higher visibility for our graduate students in search of jobs. The Board discussed several ways in which we might increase TCS attendance at the SICB meetings, including having more social functions, symposia, and booths, as we did in past years when we met with the American Society of Zoologists (which became SICB). I encourage all of you to consider organizing such activities for future SICB meetings, especially

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if they are in your geographic region. Future meetings of TCS with SICB, all of which will be held in the month of January, are listed elsewhere in this issue of the *Ecdysiast*.

Finally, I want to say how deeply honored I felt to be part of the ceremony in which the Society presented its highest

award to Austin Williams, a highly respected colleague and good friend, in October of 1997. Such outpourings of genuine appreciation, sincerity, and affection as were seen that day are rare in this fast-paced world, and confirm my belief that we, as a Society, are doing some things right.

My sincere thanks to all of you for your past and future support. See you in Amsterdam!

Jody Martin  
TCS President



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## *Excellence in Research Award to Austin B. Williams*

As announced in the last newsletter, Dr. Austin B. Williams was recently presented with The Crustacean Society's Excellence in Research Award. The tribute was planned as a surprise for Austin on the occasion of his 78th birthday, with the ceremony taking place on 17 October 1998 in the Executive Conference Room of the National Museum of Natural History. The ceremony was organized on behalf of TCS by Rafael Lemaitre, with the support of the Museum and the National Marine Fisheries Service. This award has been given only to a select group of outstanding carcinologists.

Austin, as many of us know, is a staff member of the Systematics Laboratory of the NMFS, but is considered and functions as another member of the Invertebrate Zoology Department at the Museum. He has had a distinguished career spanning five decades, during which he has published more than 115 papers (and still counting) since 1952. He is the acknowledged expert on and leader in studies of the systematics of eastern American decapod crustaceans. His landmark studies describing various decapods from deep-sea hydrothermal vents and similar habitats, among other important works, have earned him a place in the history of Zoology. He is probably best known for his monograph "Shrimps, lobsters, and crabs of the Atlantic coast of the Eastern United States" published by the Smithsonian in 1984, widely used by biologists working in many fields. His earlier study on the decapods of the Carolinas published in 1965, a precursor to his 1984 monograph, was selected as

a Science Citation Classic in 1983, a rare honor for a systematist.

The ceremony was well attended by staff from NMNH, NMFS/NOAA, and an impressive number of Austin's colleagues from out of town. The NMNH director, Mr. Robert Fri, also attended. Austin's immediate family, including his son (David) with wife (Anita) and grandchildren (Lauren and Kyle), his brother (Oliver) with wife (Mary Ann), and close friend

Jody Martin. Following this, Austin took the podium, evidently moved by the surprise and attention. After the presentation, others took the floor to say a few words: Rafael Lemaitre read a communication sent by the Mexican and Cuban carcinological community, announcing the publication of a summary of Austin's work in the journal "Investigaciones Marinas," next year (Vol. 19, No. 2); Jim Thomas presented Austin with a glass

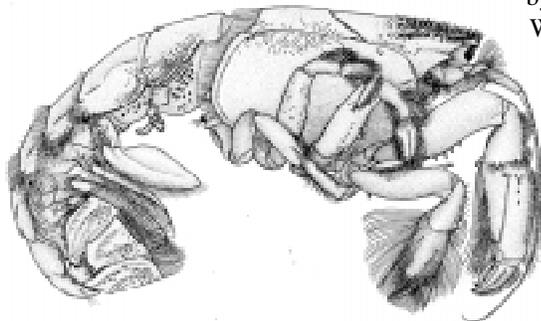


Austin Williams accepting TCS's "Excellence in Research Award" from Jody Martin, with Darryl Felder looking on.

Norma Samuels, were also present, raising to even higher levels the emotions of this well deserved tribute.

Rafael Lemaitre served as master of ceremony. Before handing Austin the award, there were speeches by Dave Pawson in representation of the Museum, and by Bruce Collette for NMFS. The formal presentation of the award, consisting of a beautiful wooden plaque, was done by the President of TCS, Betty Wenner, and President-Elect,

shrimp; Nancy Rabalais spoke for the Estuarine Research Federation, an organization Austin helped to found; Eugene Cronin, first president of ERF (Austin was first secretary) also spoke as did Mike Sissenwine, Dave Evans, Don Hoss and Alan Peterson for NMFS. The ceremony then broke up and the participants proceeded to congratulate Austin while enjoying the good wine, spirits, and hors d'oeuvres wonderfully set up by the support staff from IZ.



*Upogebia longipollex* (Streets, 1871)

From: Williams, A.B. 1986. Mud Shrimps, *Upogebia*, from the Eastern Pacific (Thalassinoida: Upogebiidae). San Diego Society of Natural History, Memoir 14, 60 pp.



## *Distinguished Career Award to Fenner A. Chace, Jr.*

In May the Washington Academy of Scientists will present a Centennial Award for Distinguished Career in Biological Science to National Museum of Natural History crustacean expert Fenner A. Chace, Jr. This unusual award is one of a special series to be given by the Academy during its Centennial in 1998.

If this were Japan, Chace, 89, would be designated a National Treasure. During his 62-year career he has enormously improved our understanding of the shrimps and lobsters of the world.

Fenner Chace was educated at Harvard and held positions at the Harvard Museum of Comparative Zoology, then served in the Army Air Forces during World War II before coming to the Smithsonian's National Museum of Natural History in

1946. He served as Curator and Senior Zoologist in the Department of Invertebrate Zoology until his retirement in 1978.

As a Zoologist Emeritus, Chace has steadily continued his studies of decapod crustaceans, mainly caridean shrimps. Among his 83 research publications are seven major monographs on caridean shrimps from the Albatross Philippine Expedition of 1907-1910. Part 7, which treated six families, appeared in 1997. Chace has also contributed numerous historical and other articles to journals and newsletters. His very first scientific article, on two families of prawns, appeared in 1936 in the *Journal of the Washington Academy of Sciences*.

In addition to his services to NMNH, Chace has throughout his career been an active guide and mentor to many colleagues

and students in the United States and abroad. Their esteem is reflected in the many new species or genera that they have named for him. One species of palaemonid shrimp even bears the double name *Fennera chacei*.

Fenner Chace was born in Fall River, Massachusetts, on October 5, 1908. He and his wife of 63 years, Janice, reside in Chevy Chase, Maryland.

The Washington Academy Centennial Awards Banquet will be held at the Bethesda Naval Officers Club on Wednesday, May 27. Information on the Academy and its Centennial program is available on the Academy's Website (<http://www.inform.umd.edu/WAS>).



## *From the Editor of the JCB*

The *Journal of Crustacean Biology* has been published for 17 years. A short synopsis of its contents from the initial volume through 1997 shows highlights of its development. Since the *Journal* began in 1981, a total of 1,719 manuscripts have been submitted, with approximately 30% of these being rejected after review. There were 1,119 research papers, with 2,013 authors, covering 12,172 printed pages.

The *Journal* has truly been international in character, with 53 countries represented. The United States and Japan led the list with the most authors, followed by Australia, Canada, France, Germany, Italy, Mexico, and the United Kingdom. The tally by country and the number of authors represented is as follows: Algeria 1, Argentina 16, Australia 47, Barbados 1, Belgium 21, Botswana 1, Brazil 26, Canada 46, Chile 20, Columbia 4, Costa Rica 3, Denmark 24, France 43, French Polynesia 2, Germany 45, Ghana 1, Greece 5, Hong Kong 3, Iceland 3, India 16, Indonesia 1, Israel 19, Italy 59, Jamaica 1, Japan 150, Kenya 1, Korea 5, Kuwait 6, Malaysia 1, Mexico 44, Monaco 1,

Mozambique 3, Netherlands 5, New Zealand 13, Norway 16, Pakistan 1, Panama 2, Peru 1, Philippines 1, Poland 2, Portugal 17, Republic of China 24, Russia 5, Singapore 6, Slovakia 1, South Africa 7, Spain 32, Sri Lanka 2, Sweden 24, Thailand 6, Transkei 3, United Kingdom 62, United States 255, and Venezuela 12.

The cost of printing, mailing, etc. of the *JCB* has doubled from \$37,688 for volume 1 in 1981 to \$75,671 for volume 17 in 1997. The total printing cost for volumes 1-17 was \$1,071,212, an average of \$957 per paper. The page charges have remained at \$60 per page for many years.

Arthur G. Humes  
JCB Editor

### **Crabs in Fables**

**A**n Old Crab said to her son, "Why do you walk sideways like that, my son? You ought to walk straight." The Young Crab replied, "Show me how, dear mother, and I'll follow your example." The Old Crab tried, but tries in vain, and then saw how foolish she had been to find fault with her child.

'Example is better than precept.'  
*AESOP'S FABLES*

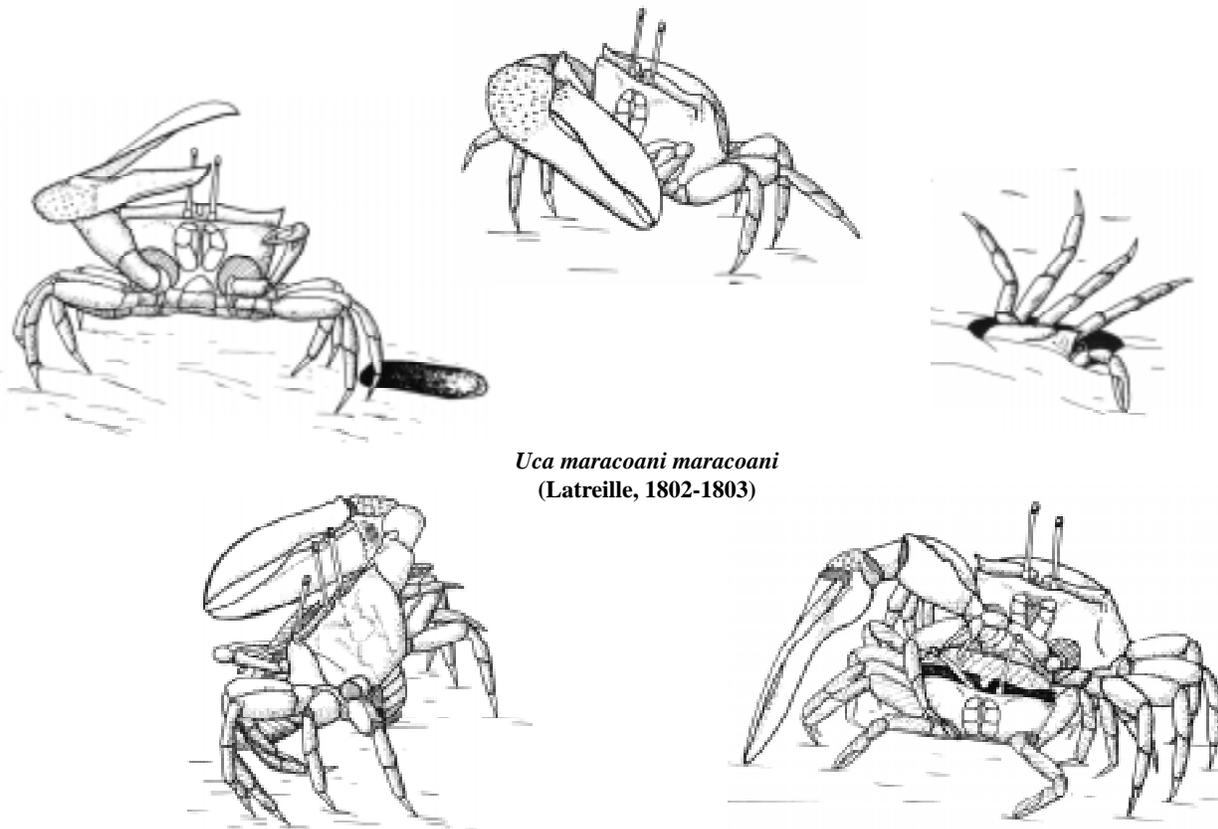
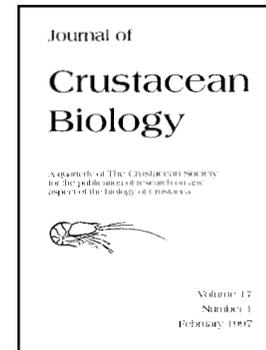
## *Editor, Journal of Crustacean Biology*

Dr. Arthur Humes, present Editor of the *Journal of Crustacean Biology*, the official journal of The Crustacean Society, will be retiring in 1999. Applications are invited from candidates interested in succeeding him as editor of this premier journal in the field of crustacean biology, as are nominations of qualified individuals. Appointment to this unsalaried position carries with it service as an Officer on the Board of The Crustacean Society.

Qualifications include extensive experience with scientific writing, access to a large science library (either within one's home facility and/or on-line), and broad familiarity with varied subdisciplines of crustacean biology. Residence within the United States is not a prerequisite. Candidates outside North America must have access to modern modes of electronic communication and computer-based networks.

Enquiries and Nominations /applications should be sent to:

Dr. Les Watling  
 JCB Editor Search Committee  
 Darling Marine Center  
 Walpole, ME 04573 USA  
 E-mail: watling@maine.maine.edu  
 (formatted documents can be sent using MIME or BinHex encoding)



From: Crane, J. 1975. Fiddler Crabs of the World (Ocypodidae: Genus *Uca*).  
 Princeton University Press, Princeton, New Jersey. 736 pp.



## Crustacean News

### TCS Conservation Committee

At the 1997 Summer Meeting in Mobile, AL, the TCS Conservation Committee had its first organizational meeting and brainstorming session. During that meeting we identified several goals and generated a list of interested TCS members. These goals include raising awareness within the society and among the general public about crustacean conservation issues, acting as a clearing-house for conservation information, sponsoring symposia and contributed paper sessions, coordinating public outreach in conjunction with meetings of the society and forming connections with other groups interested in conservation issues. All members of TCS interested in conservation issues are encouraged to become an active part of the Conservation Committee. We are planning an event for the 1999 Summer Meeting. Check the *Ecdysiast* for more information as the meeting approaches. To get involved in the committee, please contact Karen Lee (klee+@pitt.edu or KTLLEEPITT@aol.com).

—submitted by Karen Lee—

### Inland Water Crustacean Specialist Group

The search is on for *Branchinella lithaca*, the Stone Mountain fairy shrimp (order Anostraca), listed as critically endangered in the 1996 IUCN Red List of Threatened Animals. The only known habitats of this species are the ephemeral rock-depression pools on top of Stone Mountain in Georgia USA. Construction projects on Stone Mountain, and more recently privatization of the management of Stone Mountain Park by the State of Georgia, prompted Friends of Georgia to ask the United States Fish and Wildlife Service to list the Stone Mountain fairy shrimp as endangered. However, sporadic collecting during the past two years has

failed to turn up any Stone Mountain fairy shrimp. The last documented collection took place in 1951. We need to determine if this species still exists.

All biologists doing fieldwork in the southeastern United States are urged to collect a sample of any fairy shrimp observed, especially those in rock pools. Please send the specimens to Denton Belk, 840 E. Mulberry, San Antonio, Texas 78212-3194.

We are moving forward with a plan to organize the activities of the Inland Water Crustacean Specialist Group into working groups. The following groups are up and running: Copepod Working Group, chaired by Janet Reid; Crayfish Working Group chaired by Keith Crandall; and the Large Branchiopod Working Group chaired by Denton Belk. If you are interested in any of these working groups, please contact the group chair. If you would like to chair a working group (Cladocera?, freshwater crabs or shrimp?), please contact Denton Belk (dbelk@texas).

—submitted by Denton Belk—

### New Zealand Region Tanaidacea

The late Dr. Jurgen Seig had been working on the New Zealand region Tanaidacea before he died. As far as we are able to ascertain, he has recorded 60 species from the region, 40 of which are undescribed. The NZ Tanaidacean material was identified by Jurgen and is mainly located in the collection of the National Institute of Water and Atmospheric Research (NIWA) (incorporating the former NZ Oceanographic Institute). A smaller set of material, and his drawings, have been temporarily deposited in the Museum für Naturkunde in Berlin.

We are looking for someone to complete his work. We are looking for someone who has expertise with Tanaidacea, who has a proven record as an illustrator, and

who is able to work on this collection soon. NIWA is not able to pay for this work to be done, but it will pay for the publication of the resulting monograph in its Memoir Series. You could expect curatorial assistance from NIWA, Wellington concerning the nature and extent of the identified material, records, and station locations.

We are looking for expressions of interest from scientists able to carrying out this work and invite potential workers to submit examples of their work and some indication of how soon they would be able to begin work.

Please send your reply to Dr. Dennis Gordon, NIWA, P.O. Box 14901, Kilbirnie, Wellington, New Zealand. Phone: +64 4 386 0300, Fax. +64 4 386 2153. Email: d.gordon@niwa.cri.nz

Yours sincerely,  
Dr. Dennis Gordon

—submitted by Betty Wenner—

### Crustacean Sculptures

For the past several years, Ed Barbier, a professor of sculpture at the Savannah College of Art and Design, has been creating mid-sized anatomical studies of crustaceans and insects. These pieces are made of welded steel and can be viewed via the web at :

<http://home.earthlink.net/~edbarbier/fourimages.jpg>

or

<http://home.earthlink.net/~edbarbier/fourimagesTEST.jpg>

Anyone interested in acquiring any of these sculptures should contact Ed Barbier for the prices.

—submitted by Ray Manning—

## Larviculture Newsletter

The Electronic Larviculture Newsletter is forwarded twice a month (1st and 15th) to the subscriber's email-address. Its contents can be consulted (via a personal username and password) on the homepage of the Laboratory of Aquaculture & *Artemia* Reference Center of the University of Gent (<http://www.rug.ac.be/aquaculture>). The newsletter contains abstracts of articles in peer-reviewed journals, excerpts from periodicals, information about upcoming meetings and other events, informal information in the field of aquaculture, as well as a selection of valuable contributions to mailing lists like Aqua-L, Crust-L, and others. You can subscribe by mailing the subscription form to the secretariat, attention of Mrs. Katerina Gamrotova ([katerina.gamrotova@rug.ac.be](mailto:katerina.gamrotova@rug.ac.be)), who is responsible for the accountancy.

## Shrimps and Prawns of the World

A new book on the "Penaoid and Sergestoid Shrimps and Prawns of the World," by Isabel Pérez Farfante and Brian Kensley, has recently been published. This work represents a study of the taxonomy of the penaeidean shrimps of the world and includes keys and diagnoses for the families and genera. The book is available from Backhuys Publishers, The Netherlands. For additional details, please see the order form on page 12 of this newsletter.

## New Shrimp Webpage

Ray Bauer (University of Southwestern Louisiana) has produced a new webpage on "Research in Marine Habitats and the Biology of Shrimps." The site is loaded with lots of excellent crustacean images, as well as a wealth of information on the biology of these interesting animals. The page can be viewed at the following address:

<http://www.ucs.usl.edu/~rtb6933>

## TCS E-mail Directory Changes

The TCS E-mail Directory was first published in the May 1996 issue of the *Ecdysiast* (Vol. 15, No. 1), although it included only those members that had responded to previous queries. Since then, changes and additions have been printed in subsequent issues of the newsletter. If your address or contact numbers have changed or you have not been included previously in the directory, please send the appropriate information to Tim Stebbins, *Ecdysiast* Editor.

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## Contributions to the Ecdysiast

The *Ecdysiast* is published twice a year and mailed with the May and November issues of the *Journal of Crustacean Biology* (published and mailed by Allen Press, Lawrence, KS). Submissions for the spring (May) newsletter should be in by mid-March, while those for the fall (November) newsletter should be in by mid-September. This allows the editor to compile, produce, print and ship the newsletters to Allen Press in time to meet the *JCB* mailing deadlines.

Anything of interest to the TCS membership is welcome, including notices of upcoming meetings and symposia, regional updates, research and job opportunities, important research findings, new publications, other related societies, and basically all things crustacean. Although contributions may be submitted in any form, electronic submissions via e-mail are preferred and strongly encouraged. This saves the editor an enormous amount of time and minimizes transcription errors in the process. Graphic images should be submitted on disk or camera-ready copy by mail. Camera-ready graphics will probably be scanned into the final document. This edition of the newsletter was prepared using PageMaker 6.5 for the Mac; graphics were scanned and then modified using either Deskpaint or Photoshop. Submit all materials directly to the editor via e-mail ([tds@mwharbor.sannet.gov](mailto:tds@mwharbor.sannet.gov)) or at the address listed at the bottom of page 1 of this newsletter (Tim Stebbins, *Ecdysiast* Editor).



## Upcoming Meetings & Symposia

### TCS 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 4th International Crustacean Congress (ICC4) and the 3rd European Crustacean Conference. The local contact for these meetings is Fred Schram of the University of Amsterdam (schram@bio.uva.nl). For additional information, please refer to the ICC4 General Program on the following page of this newsletter or see the ICC4 announcements published in the past several issues of this newsletter.

### TCS Winter 1999 (Denver, Colorado)

The 1999 Winter (January) Meeting of TCS will be held in Denver, CO, in conjunction with the Society of Integrative and Comparative Biology (SICB).

### TCS Summer 1999 (Lafayette, Louisiana)

The 1999 Summer Meeting will be held from May 26-30, 1999 in Lafayette, LA. The meeting will be hosted by the University of Southwestern Louisiana, the USGS National Wetlands Research Center, the NOAA Estuarine Habitats and Coastal Fisheries Research Center, the Louisiana Universities Marine Consortium, and the National Museum of Natural History, Smithsonian Institution. The local contact for the meeting is Darryl Felder. For additional information, please see the "Preliminary Notice" for this meeting on pages 10-11 of this newsletter.

### TCS Winter 2000 (Atlanta, Georgia)

The 2000 Winter (January) Meeting of TCS will be held in Atlanta, GA in conjunction with SICB.

### TCS Summer 2000 (Puerto Vallarta, Mexico)

The 2000 Summer Meeting will be held in Puerto Vallarta, Mexico. The meeting will be hosted by Elva Escobar-Briones of the Universidad Nacional Autonoma de Mexico (UNAM). Additional information on this meeting will be available in the next issue of the *Ecdysiast*.

### TCS Winter 2001 (Chicago, Illinois)

The 2001 Winter (January) Meeting of TCS will be held in Chicago, IL in conjunction with SICB.

### TCS Summer 2001 (Melbourne, Australia)

The 2001 Summer Meeting will be held in Melbourne, Australia. The meeting will be hosted by Gary Poore of the Museum of Victoria.



### Second International Isopod Conference (ISO-2) July 16-18, 1998 (Amsterdam, The Netherlands)

The ISO-2 Conference will be held July 16-18, 1998, just prior to start of the IVth International Crustacean Congress (ICC4) being held in Amsterdam July 20-24 (see above). Additional information is available in the November 1997 issue of the *Ecdysiast* (Vol. 16, No. 2) or may be obtained from Rick Brusca (rbrusca@bio2.edu) or Brian Kensley (kensleyb@nsmnh.si.edu).

### III Symposium "Fauna and Flora of the Atlantic Islands" September 21-25, 1998 (Ponta Delgada, Açores, Portugal)

The symposium will be hosted by the Department of Biology of the University of the Azores. The official languages of the symposium will be Portuguese and English. Interested individuals may make transport and accommodation arrangements via Agência Açoreana de Viagens ([ppc.azoren@mail.telepac.pt](mailto:ppc.azoren@mail.telepac.pt)). The preferred mode of submission of registration materials and abstracts is also through e-mail ([simposio@alf.uac.pt](mailto:simposio@alf.uac.pt)).

### ASC Annual Meeting August 2-6, 1998 (Baltimore, Maryland)

The Association of Systematics Collections will hold its Annual Meeting in conjunction with the American Institute of Biological Sciences and the Ecological Society of America, along with several other associations. The meeting will take place in Baltimore, Maryland on August 2-6, 1998. ESA has already organized several interesting field trips and the planning is well underway. AIBS will be handling all registrations and mailings. The contact person for ASC is Alex Barker of the Dallas Museum of Natural History ([abarker@mail.smu.edu](mailto:abarker@mail.smu.edu)).



*Antarcturus nonatoi*  
Pires & Sumida, 1997

## Fourth International Crustacean Congress (ICC4), 1998 General Program

Time	Sunday 19 July	Monday 20 July	Tuesday 21 July	Wednesday 22 July	Thursday 23 July	Friday 24 July
8:00		Registration				
9:15		Opening ceremony				
9:30		<b>Plenary Session Subtheme I</b>  <b>Prof. Dr. Jack Sepkoski</b> The evolution of crustacean biodiversity in the context of marine diversity through time.	<b>Plenary Session Subtheme II</b>  <b>Dr. Bella Galil</b> Lessepsian migration – human impact on Levantine biogeography.	<b>Plenary Session Subtheme III</b>  <b>Prof. Dr. M. Vannini</b> Behavioural adaptation of decapods to the mangrove environ- ment.	<b>Plenary Session Subtheme IV</b>  <b>Dr. B.R. McMahon</b> Heart rate: is it a useful measure of cardiac performance in crustaceans?	<b>Plenary Session Subtheme V</b>  <b>Mr. Gordon H. Rae</b> Current practice and future research trends in Salmon Aquaculture in Scotland.
10:00		<i>Morning Coffee Break</i>	<i>Morning Coffee Break</i>	<i>Morning Coffee Break</i>	<i>Morning Coffee Break</i>	<i>Morning Coffee Break</i>
10:30		<b>Prof. Dr. Dieter Walossek</b> Cambrian diversity of Crustacea.	<b>Dr. Jim Carlton</b> Cryptic invasions of marine Crustacea: 500 years of global human-mediated dispersal.	<b>Prof. Dr. G. van der Velde</b> Ecological impact of crustacean invaders.	<b>Prof. Dr. P. Greenaway</b> Physiological diversity and the colonisation of land.	<b>Dr. Glen S. Jamieson</b> Selective effects of fishing on the population dynamics of crustaceans.
11:00		<b>Dr. Dick Vane- Wright</b> Mapping and analysing variation in biological diversity in space – and through time.	<b>Dr. David Holdich</b> The introduction of foreign crayfish into England for commercial exploitation – an own goal.	<b>Prof. Dr. J. Ringelberg</b> The role of info chemicals in lake plankton crustacean behaviour and predator-prey relations.	<b>Prof. Dr. A. Myers</b> Biodiversity: The Phenotype-History- Ecology Nexus.	<b>Dr. D.M. Smith</b> Contribution of biological and ecological studies into various aspects of prawn farming.
11:30		<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
14:00		<b>Parallel Sessions Subthemes I-V</b>	<b>Parallel Sessions Subthemes I-V</b>	<b>Parallel Sessions Subthemes I-V</b>	<b>Parallel Sessions Subthemes I-V</b>	<b>Parallel Sessions Subthemes I-V</b>
15:00		<i>Afternoon Coffee Break</i>	<i>Afternoon Coffee Break</i>	<i>Afternoon Coffee Break</i>	<i>Afternoon Coffee Break</i>	<i>Afternoon Coffee Break</i>
15:30		<b>Poster Session Subtheme I</b>	<b>Poster Session Subtheme II</b>	<b>Poster Session Subtheme III</b>	<b>Poster Session Subtheme IV</b>	<b>Poster Session Subtheme V</b>
16:00	Registration	<b>Parallel Sessions Subthemes I-V</b>	<b>Parallel Sessions Subthemes I-V</b>	<b>Parallel Sessions Subthemes I-V</b>	<b>Parallel Sessions Subthemes I-V</b>	<b>Parallel Sessions Subthemes I-V</b>
~17:00		<i>End</i>	<i>End</i>	<i>End</i>	<i>End</i>	<i>End</i>
18:00		Reception at the 'Rijksmuseum'			Congress Diner Excursion	



**PRELIMINARY NOTICE — TCS 1999 SUMMER MEETING**

(last TCS meeting of the millennium!!!)

MAY 26-30 — LAFAYETTE, LOUISIANA, U.S.A

Hosted by the University of Southwestern Louisiana (Laboratory for Crustacean Research and Office for Environmental and Energy Technology Application Programs), the USGS National Wetlands Research Center, the NOAA Estuarine Habitats and Coastal Fisheries Research Center, the Louisiana Universities Marine Consortium, and the National Museum of Natural History, Smithsonian Institution.

An official call for submission of abstracts and registration will be issued in late 1998, with an anticipated deadline for preregistration in late February, 1999. The meeting will feature a combination of invited and contributed papers, both oral and poster presentations, organized into general sessions and feature topics as follow:

- Special Symposium Honoring the Contributions of Dr. Raymond B. Manning; given Dr. Manning's broad interests, this will include blocks of papers on **“Biology of Stomatopods,” “Biology of Tropical Carideans”** and **“Biology of Thalassinids and their Symbionts”** (R. Bauer and R. Lemaitre, Coordinators).
- Symposium/Workshop on **“Applications of Molecular Genetic Techniques in Crustacean Biology”** (J. Neigel and C. Schubart, Coordinators).
- Symposium on **“Mortality in Populations of the Blue Crab, *Callinectes sapidus*”** (V. Guillory, H. Perry and N. Rabalais, Coordinators).
- General, Contributed Oral and Poster Sessions on **“All Aspects of Crustacean Biology”** (B. Felgenhauer and K. Strasser, Coordinators).

Tentative Schedule of Events:

Wednesday, 26 May: Registration and Evening Welcoming Social

Thursday, 27 May: General Sessions and Molecular Techniques Symposium; Evening “Cajun Hospitality” happy hour

Friday, 28 May: Symposium Honoring Dr. Manning; evening “Downtown Alive” and unscheduled time to experience local food and culture of Acadiana

Saturday, 29 May: General Sessions and Blue Crab Mortality Symposium; afternoon short field trip options; evening banquet in honor of Dr. Raymond B. Manning

Sunday, 30 May: Optional coastal and marine field trips

Housing and Travel to Lafayette (some advance notice for international participants): Forthcoming announcements will give further details concerning the tentatively designated conference hotel (The Hotel Acadiana) and other meeting facilities just off the University campus, about 6 km from the airport; room rates at the conference hotel will be \$72 per night, plus tax, with maximum occupancy of two individuals per room. Shuttle service will be provided for any events not in walking distance from the hotel. Lafayette is served by three major airline hubs, Houston, Dallas and Atlanta, through which international flights are routed; direct commuter airline links from these hubs are provided by several airlines serving Lafayette (Continental, American, Northwest and Delta Airlines).

For additional information, you are invited to contact Dr. Darryl L. Felder, Chair, Program and Local Arrangements Committee (address as on form below); tel. (504) 482-6753; e-mail: dlf4517@usl.edu. Also watch for further announcements, registration forms, and program updates on a web page to be put on-line in the summer of 1998 under: <http://www.usl.edu/Departments/Biology/TCS>

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To assure that you receive future announcements concerning this meeting, and to assist the organizers in planning meeting space needs and accommodations, please cut off and mail this completed form to: TCS Meeting, Department of Biology, University of Southwestern Louisiana, Lafayette, LA 70504-2451 USA (or, see above and send this information by e-mail to D. Felder).

***Preliminary Information Sheet for Participants — TCS Summer Meeting, May 1999***

Yes, I plan to attend the Lafayette meeting and...

\_\_\_\_\_ anticipate making an oral presentation (limit one as senior author) in the \_\_\_\_\_ session/symposium (if known);

\_\_\_\_\_ anticipate presenting one or more posters (number if more than one \_\_\_) in the \_\_\_\_\_ session/symposium (if known);

\_\_\_\_\_ anticipate reservation for discount lodging at the conference hotel;

\_\_\_\_\_ anticipate the need for ground transportation between the hotel, meeting events in Lafayette, and the airport;

\_\_\_\_\_ anticipate attending the Saturday night banquet in Dr. Manning's honor.

Name: \_\_\_\_\_ Are you a current member of TCS (y/n)? \_\_\_\_\_

Mailing Address:

Telephone No. (home): \_\_\_\_\_ (office): \_\_\_\_\_

(FAX): \_\_\_\_\_ E-mail: \_\_\_\_\_

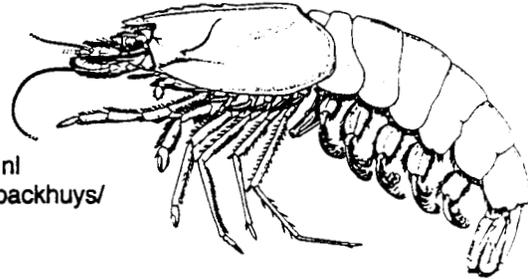




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**Just published:**

**Penaeoid and Sergestoid Shrimps and Prawns  
of the World**

**Keys and Diagnoses for the Families and Genera**

(Mémoires du Muséum national d'Histoire naturelle, tome 175)

by

**Isabel Pérez Farfante & Brian Kensley**

Pérez Farfante, I. & B. Kensley, 1997. Penaeoid and sergestoid shrimps and prawns of the world. Keys and diagnoses for the families and genera (Mémoires du Muséum national d'Histoire naturel tome 175). 233p., 143 figs. Hardbound  
ISBN 2-85653-510-0 **NLG 120,00**

This work presents a study of the taxonomy of the penaeidean shrimps of the world. This group of shrimps includes many of the commercially important marine species of the tropics and subtropics as well as many of the species that constitute a major link in the food chain of the oceans. The work presents keys for the identification of seven families (Aristeidae, Benthosicyonidae, Penaeidae, Sicyoniidae, Solenoceridae, Luciferidae, and Sergestidae) and 56 genera, as well as diagnoses that attempt to define these taxa with scientific clarity

Also included are lists of the species and subspecies currently included in these genera, along with their geographic distribution, and a full bibliography.

Dr Isabel Pérez Farfante is an Emeritus Research Scientist with the U.S. National Marine Fisheries Service in Miami, Florida, who has published extensively on the systematics of penaeoid shrimps of the world. Dr Brian Kensley is a curator in the Department of Invertebrate Zoology, U.S. National Museum of Natural History, Smithsonian Institution, Washington D.C. His principal research interests are in the systematics of isopod & decapod crustaceans of the world.

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