



# THE ECDYSIAST

## *Newsletter of the Crustacean Society*

ECDYSIAST VOLUME 5, NUMBER 2

AUGUST, 1986

### CRUSTACEAN SOCIETY ELECTIONS

This year's elections are being held for the Crustacean Society posts of Secretary, Treasurer, and the Regional Governors for the North American, the European, and the Indo-Pacific regions. The Secretary's duties include keeping the Society calendar of events, recording minutes of Board and Annual meetings, and presenting a written yearly summary of the Society's activities to members. The Treasurer oversees the financial dealings of the society. The regional governors represent their membership in activities of the Board of Governors (Society Officers and Regional Governors) and promote society membership and subscriptions to JCB in their geographic areas. A ballot with a slate of candidates is included in this issue of the Ecdysiast; please cast your ballot and mail it in as indicated.

### CRUSTACEAN SOCIETY-ASZ MEETINGS

The 1986 annual meeting of the Crustacean Society, American Society of Zoologists, and other scientific societies will be in Nashville, Tennessee, December 27-30. The Crustacean Society program will include sessions of contributed papers, the Society's annual business meeting, and a brunch-luncheon with a special program. Adrian Wenner and Fred Schram are organizing a panel discussion after the brunch entitled "Research Problems in Common: Crustaceans and Insects." Short introductory presentations on research interests common to both groups, e.g., ecdysis, metamorphosis, cuticular structure and function, will be given, ideally by both a crustacean-oriented and then an insect-oriented participant. Open discussion will follow. Persons who would like to act as discussion moderators (both carcinologists and entomologists) should contact Adrian Wenner or Fred Schram.

Although no symposium dealing with Crustacea is planned for this year, the Nashville meetings will present a good opportunity to discuss and plan the symposia being organized for future meetings (1987 New Orleans "Crustacean Egg Production", organized by Adrian Wenner; 1988 San Francisco "Sex Attraction, Mating Behavior, and Functional Morphology of Sperm Transfer" organized by Ray Bauer and Darryl Felder).

### Session Chairpersons

Persons interested in chairing contributed paper sessions on Crustacea should contact Ms. Mary Adams-Wiley, ASZ, Box 2739, Calif. Lutheran Univ., Thousand Oaks, CA 91360. In addition to helping the Society present a successful program, session conveners have the advantage of listening to all the papers in a session (although you probably did that anyway), and this participation in the Society looks good on c.v.'s and when asking for institutional travel funds to go to this meeting.

Crustacean Society Booth

Volunteers are also needed to man the Crustacean Society Booth at the ASZ meetings. The function of the booth is to promote Crustacean Society membership and Journal of Crustacean subscriptions at the Nashville meetings. Again, contact Ms. Mary Adams-Wiley, ASZ executive officer, at the address given above.

CRUSTACEAN SOCIETY CONSTITUTION

A copy of the Society's Constitution is included in this issue. Members are invited to look over the document in order to understand the organization and regulations of our Society.

TREASURY NOTES

RENEW ON TIME PLEASE!! All memberships are on a calendar year basis. Your 1986 membership expires at the end of this year. You should renew your membership for 1987 before the end of November. This saves time for the Treasurer (I could do some research), adds reality to the budgeting process (the budget must be adopted in December), and the Society is saved the cost of mailing second and third renewal notices (we could publish a few extra pages in the Journal). You will directly benefit by having your copies of the Journal and newsletter sent to you as soon as they are ready for distribution. This means the difference between air lift and surface mail for copies of the Journal sent to members in Africa, Asia, Australia, Europe, and New Zealand. (From Denton Belk, Treasurer, The Crustacean Society, 840 E. Mulberry, San Antonio, Texas 78212-3194).

HELP FIND NEW MEMBERS

Elizabeth Wenner, North American Governor, asks that names of potential members be forwarded to her to aid in recruitment of new North American members. She presently maintains a computer inventory of names which she is able to cross-check against the Society's current membership list. Lists of names and addresses for research staff, faculty, and students affiliated with crustacean-oriented programs are often helpful, as are selected names taken from the rolls of societies with an invertebrate/aquatic emphasis. You may, however, wish to coax potential members on your own and have them apply directly to our Treasurer, Denton Belk, or you may refer them to Elizabeth Wenner (S.C. Mar. Res. Inst., P.O. Box 12559, Charleston; telephone: 803-795-6350)

TENTH ANNIVERSARY PLANS

Our Secretary, Paul Haefner, has been hard at work organizing plans for celebration of the 10th Anniversary of the founding of the Crustacean Society. In the works are a commemorative calendar with classic illustrations, a symposium on the history of carcinology with possible publication in Crustacean

Issues, a history of the Crustacean Society for publication in JCB, a memorial T-shirt (volunteers to coordinate this activity??), and a possible Crustacean Society meeting in Europe. These plans are not set in stone--Paul would like very much to receive input and ideas regarding this upcoming event. Contact Paul at the Dept. of Biology, Rochester Inst. Technology, Rochester NY 14623.

#### BEST STUDENT PAPER AWARD--CRUSTACEANS SCORE AT ASZ

Congratulations to Dr. Joel W. Martin, Florida State University, for receiving the Best Student Paper Award in the ASZ Division of Invertebrate Zoology at the meetings in Baltimore last December. Jody presented his paper "Phylogenetic relationships of the genus Aegla (Decapoda, Anomura, Aeglidae)" at the contributed paper session held in honor of Fenner A. Chace, Jr.

#### SOFTWARE FOR PHYLOGENETIC ANALYSIS

The following contributed by George (Buz) Wilson: Those of you who are interested in numerical estimates of phylogenies can do the analyses on your microcomputer using Joseph Felsenstein's package of programs, PHYLIP (Phylogeny Inference Package). These programs are written in a general form of the Pascal computer language and can be compiled on a lot of different computers. PHYLIP has a variety of techniques implemented in a useful form. The programs from Joe Felsenstein consist only of the source code and documentation, leaving you with the usually straightforward responsibility of choosing and using a computer and a Pascal compiler to generate the operational programs. You can get the source code and documentation free of charge from: Dr. Joseph Felsenstein, Dept. Genetics, Univ. Washington, Seattle, WA 98195.

If you would like to have the programs already compiled and ready to go, I have done this using Turbo Pascal. In addition, I have created a DOS shell that will allow you to run the various PHYLIP programs by making choices from a menu, with a HELP system to remind you how the programs and system work. My package (Felsenstein's PHYLIP precompiled, documentation, Turbo Pascal source code, and DOS runtime system) is available from me free of charge; it requires the following: IBM PC/XT/AT or nearly compatible machine with a minimum of 256K internal memory; two floppy disk drives (a hard disk with a floppy drive is easier to use); MS-DOS version 2.0 or later. This preliminary version of the DOS runtime shell has limited documentation, mostly accessed from the runtime HELP system.

To receive runtime PHYLIP, send the following: 6 double-sided, double density 5 1/4 in., preformatted, floppy disks; a return mailing label; and sufficient postage stamps for the return. Also, it would be helpful if you could describe your system (hardware, DOS version, etc.); this will help me keep track of problems that might arise, and types of systems the IBM PHYLIP runs on. I am currently distributing version 2.8. (George D.F. (Buz) Wilson, Scripps Institution of Oceanography, A-002, La Jolla, CA 92093. Telephone: 619-452-6692).

MEETINGS AND SYMPOSIA

The 1st International Workshop on Stomatopod Biology was held in Trieste, Italy, last September 9-13. Enrico Ferrero, Università Degli Studi di Trieste, and Ray Manning, NMNH, Smithsonian, along with several others, organized the event and made it a success. The papers presented at the Workshop are now in press and will be published in a forthcoming issue of the journal Bollettino di Zoologia. Topics covered included stomatopod systematics, ecology, behavior, fisheries, functional morphology, neurophysiology, and vision.

"Signposts In The Sea", an interdisciplinary workshop on marine animal migration and orientation mechanisms, sponsored by the Florida State University Psychobiology Program, and organized by W. Herrnkind, was held at Tallahassee on May 29-31, 1986. Participants included J. Atema, R. Barlow, O. Ellers, R. Forward, P. Hamilton, P. Johnsen, J. Kirschvink, M. Kreithen, J. McCleve, D. Nelson, D. Olson, A. Shanks, W. Sturges and T.P. Williams (moderator). The published proceedings will be available at nominal cost about February, 1987. (contributed by W. Herrnkind; for more information, write him at: Biological Sciences, Florida State University, Tallahassee, FLA 32306-3050)

The Second International Symposium on Indo-Pacific Marine Biology, cosponsored by the Western Society of Naturalists, American Society of Zoologists, and the Crustacean Society, was held on Guam at the end of June. Three symposia on Crustacea were coordinated by Marjorie Reaka (Univ. Maryland, College Park) who gave the keynote address "Island endemism: Life Histories and Evolution of Pacific Crustacea." The three Crustacea symposia were "Behavior of Marine Crustacea: Recent Advances", chaired by Michael Salmon (Univ. Illinois); "Ecology of Marine Crustacea", chaired by Adrian Wenner (Univ. Calif. Santa Barbara); and "Biogeography and Evolution of Crustacea in the Pacific Ocean", chaired by William A. Newman (Scripps Inst. Oceanography). Look for the symposium and contributed papers in a special issue of the Bulletin of Marine Science next year.

The annual meeting of the Western Society of Naturalists will be held this year at the University of Hawaii, Hilo, Dec. 27-30. One symposium that is being planned for the meeting is Anchialine Pond Crustacea, organized by Dr. John Chan. For more information on these meetings, write WSN's secretary Prof. Dave Montgomery, Biological Sciences, Cal. Poly. State Univ., San Luis Obispo, CA, 93407.

MORE NEWSLETTERS

The Artemia Reference Center, Ghent, Belgium, put out the first issue of a newsletter on Artemia biology early this year. The newsletter will be quarterly but may be expanded to bi-monthly if there is sufficient input from interested readers. If you are interested in receiving the newsletter or have items of interest for it, please contact the newsletter editors at the following address:

Artemia Reference Center  
Faculty of Agriculture, State University of Ghent  
Rozier 44, B-9000 Ghent, Belgium

A newsletter containing information on the "ins and outs" of word processing was came out in early 1986. SCROLL, the official newsletter of the Word/Processing Users' Group, has a price tag of \$15 for US subscribers (\$20 Canada, \$25 overseas). Write the following address for more information:

Word/Processing Users' Group, Inc.  
P.O. Box 144  
Malverine, NY 11565

#### SUSPENSION OF SOCIETY BOOK DISCOUNT PROGRAM

Excessive cost to the Society has prompted the Board of Governors to indefinitely suspend the discount sale of books to the membership. An audit of the program over the last several months has revealed a host of problems ranging from unpredictable changes in book costs by publishers to difficulties in foreign currency exchange. Such problems with the book program resulted in a substantial loss to the Society over the last several years. Our President-Elect, Darryl Felder, is presently involved in studying alternative plans for marketing books to the membership at discount rates, perhaps through the use of coupons that would be sent directly to the publisher. Darryl would welcome any suggestions or alternative proposals (address: Dept. Biology, Univ. SW Louisiana, P.O. Box 42451, Lafayette, LA 70504).

Although the book discount program is now discontinued, we will continue to present new books about Crustacea that come to our attention (see below). Advertisements or other information on books of interest to Society members should be sent to the Ecdysiast Editor for placement in the newsletter.

#### NEW BOOKS

"Annotated Guide to the Barnacles of the Northern Gulf of Mexico" by S.R. Gittings, George D. Dennis, & H.W. Harry. The publisher's abstract: "49 species of thoracican barnacles that are known to occur in the northern Gulf of Mexico are differentiated by a taxonomic key based on external characters, with extensive illustrations and a glossary. The guide also includes an annotated list of these species and three systematically questionable ones, with areal range, bathymetry, substratum type and other data; a list of 16 species that have been found in the southern Gulf of Mexico but not in the northern Gulf; directions for collecting and examining specimens, and a list of references especially useful for further study of particular groups." This publication (No. TAMU-SG-86-402) costs \$3.00 (make check payable to Texas A&M Univ.); order from the following address:

Sea Grant Program  
Texas A&M Univ.  
College Station, Texas 77843-4115

"The Decapod Brachyura of the Siboga Expedition. Part VIII. Majidae" by D.J.G. Griffin & H.A. Tranter. (1986. 335p., 112 fig., 22 pl; ISBN 90 04 07146 6). The publishers abstract: "This report is based principally on collections made by the Dutch "Siboga" Expedition of 1899-1900, the Danish expeditions of Dr. Th. Mortensen between 1914 and 1929 and the Mariel King Memorial Expedition

to the Moluccas in 1970. These collections, with other recently studied material represent the most comprehensive ones assembled from the Indo-Pacific regions. They provide an opportunity to examine whether proposals for groupings based on the male first pleopod derived from the East Pacific fauna may be extended to that of the Indo-West Pacific. It deals with species from 81 genera of 6 subfamilies (Oregoniinae omitted) and 46 new species are described. The status of some subspecies has been changed and some known species placed in new genera. The more appropriate alignment of genera in subfamilies has resulted in a rearrangement in which the Tychinae now contains only 9 species in three genera while the Majinae, in particular, has been expanded and now includes 87 species in 22 genera. Keys are provided at subfamily, genus and species levels as well as many figures." The cost is \$72.25; it can be ordered from:

E.J. Brill Publishers  
P.O. Box 9000  
2300 PA Leiden  
Holland

"Results of the Musorstom Expeditions. I & II. Philippines (1976, 1980)". The second volume is based primarily on material collected in Philippine waters during research cruises by the Vauban in 1976 and the Coriolis in 1980. Tome 2 consists of 525 pages, 126 plates of line drawings, 37 photographic plates. Chapters of interest to carcinologists cover the Majidae (D. Guinot & B. Richer de Forges), Dorippidae (H. Chen), Raninidae (G.D. Goeke), Pontoniinae (A.J. Bruce), Processidae (P. Noel), Penaeidae (A. Crosnier), Mysidacea (M. Bacescu), Stomatopoda (M.K. Moosa), and Ascothoracida (M.J. Grygier). For ordering and price information, write:

Service des Editions de l'Orstom  
70-74 route d'Aulnay  
93140 Bondy, France

"Mud Shrimps, Upogebia, from the Eastern Pacific (Thalassinidea: Upogebiidae)" by Austin B. Williams. See the announcement and ordering information on the last page of this issue.

#### INPUT TO THE ECDYSIAS

My thanks to those who have sent in items for this issue of the newsletter. Please continue the input; although the next issue isn't due out until March of next year, the time to send in information or announcements is as soon as you have something of interest. Mail them to me and I'll put them in the file (now empty) for the next issue. Ray Bauer, Ecdysiast Editor.

## UPDATED SOCIETY CONSTITUTION AND BYLAWS

The Society herewith publishes its revised and updated constitution and bylaws. The revision was begun by the Board in 1983, and proposed revisions were approved at the business meeting of the Society in December, 1984.

### THE CRUSTACEAN SOCIETY CONSTITUTION

#### Preamble

The Crustacean Society was organized by scientists who recognized a need for an organization and journal to satisfy the requirements of crustacean biologists. In December, 1979, the Society was founded and an Organizing Council was formed to establish a working framework. The official publication of the Society, the Journal of Crustacean Biology, is dedicated to all aspects of crustacean biology. This Constitution and the establishment of the Journal are the results of the Council's activities.

#### Article 1: Name.

The name of this Society shall be The Crustacean Society.

#### Article 2: Purpose.

The purpose of this Society shall be to advance the study of all aspects of the biology of crustaceans and to enhance exchange of information among persons interested in carcinology.

#### Article 3: Membership.

**Section 1: Membership.** Membership in the Society is open to individuals or institutions interested in crustaceans. Membership can be obtained upon written application to the Treasurer of the Society with accompanying payment of dues.

**Section 2: Types of Members.** Regular, Sustaining, Associate, Emeritus, Institutional and Founding Members 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 in its behalf.

**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 the Society's activities, vote at meetings or by mail, and participate in all activities sponsored by the Society within limits. Except for Associate and Emeritus members, all members in good standing shall receive all regular issues of the Society's newsletter and journal. Associate and Emeritus Member shall receive the Society's newsletter, but will not receive the journal as a right of membership. Other privileges of membership may be designated by the Board.

**Section 4: Suspension and Reinstatement.** Members whose dues have not been paid within six (6) months of their renewal date shall not be held in good standing and shall lose their rights of membership. Members not in good standing may be reinstated upon application and payment of current dues (subject to approval by the Board).

#### Article 4: Dues.

The class of membership shall determine the dues. The amount and time period of dues shall be established on the recommendation of the Board and approved by a two-thirds (2/3) majority of the Society members voting on the issue at an annual meeting or by mail ballot. Dues can be changed at any time on the recommendation of the Board with approval by two-thirds (2/3) majority of the members voting on the proposed change at an annual meeting or by mail ballot.

#### Article 5: Officers.

**Section 1: Officers.** The elected officers of the Society shall be the (immediate) Past-President, President-Elect, Treasurer, Secretary, and Program Officer. An officer must be a member in good standing at the time of election and must remain in good standing throughout the term of office.

**Section 2: Term of Officers.** All officers shall be elected for a term of two (2) years by a simple majority vote of the members voting in the election. The Past-President, President, and President-Elect may not hold any one of their three (3) sequential offices for a period greater than two (2) years, except when the President-Elect succeeds to the office of President as stated in Section 4. Other officers may hold the same office for an unlimited number of terms. Newly elected officers shall assume the responsibilities of their office on January 1 of the year following their election.

**Section 3: Election of Officers.** An election for the offices of Society President-Elect and Society Program Officer shall be held in the fall of odd numbered years. Elections for the offices of Society Treasurer and Society Secretary shall be held in the fall of even numbered years. Elections shall be by means of a mail ballot enclosed with the newsletter and mailed to the membership at least sixty (60) days before the election is concluded and ballots are counted. The closing date for return of ballots to the officer in charge shall be on or about November 1.

**Section 4: Vacancies in Elected Offices.** In the event of a vacancy in the office of Past-President, the office shall remain unfilled until the then President's term expires. During this vacancy, all duties incumbent on the Past-President shall become additional duties of the President-Elect. In the event of a vacancy in the office of the President, the President-Elect shall succeed to the office for the remainder of the departing President's term, after which he or she shall serve his or her regular term as President. A new President-Elect shall be chosen by special election within ninety (90) days of the date the President-Elect succeeds to the President's office. Other vacancies in offices, if they arise, shall be filled by a presidential appointee, approved by the Board, until the next regularly scheduled election for that office. In the event the President and President-Elect's offices are vacant simultaneously, the Board of Governors will elect a Chairperson from its ranks, and this Chairperson and the remaining Board Members shall assume responsibility of the Society and may delegate authority until special elections can be held.

**Section 5: Removal from Office.** Should an elected officer, for reasons of incompetence or malfeasance, fail to fully or professionally discharge duties of the office, the Board may vote by either of the means specified in Article 7, Section 1 to issue a request for resignation. Should the officer not comply with such a request after a reasonable period of time, the Board may act to remove the officer by a three-fourths (3/4) majority mail poll of the full Board membership. The resultant vacancy shall be filled as specified in Article 5, Section 4.

#### Article 6: Board of Governors.

**Section 1: Board of Governors.** The voting members of the Board shall consist of the (immediate) Past-President, President (Chair of the Board), President-Elect, Treasurer, Secretary, Program Officer, Journal Editor and five Regional Governors, one each to represent North America, Europe, Asia, South America, and the Indo-Pacific regions respectively. All members of the Board must be members of the Society in good standing at the time of their election and throughout their terms as Governors. The Board shall be the governing body of the Society. It is empowered to act on all matters pertaining to the

Society except as otherwise provided for in this Constitution and Bylaws. It shall be responsible for matters of policy and procedure and shall have jurisdiction over finances and publications. After completion of the Past-President's term, all former Past-Presidents who remain members in good standing shall, if not holding an elected or appointed membership on the Board, serve for life as ex officio (non-voting) members of the Board.

**Section 2: Journal Editor.** The Journal Editor shall be appointed by and responsible to the Board. The first Editor shall be appointed by a two-thirds (2/3) majority of the Organizing Council. Succeeding Editors shall be nominated and approved by action of the Board. The Editor serves at the discretion of the Board and may, for appropriate reasons, be removed at any time by action of the Board.

**Section 3: Terms of Regional Governors.** Regional Governors shall be elected for two (2)-year terms by a simple majority vote of the members voting in the election. The Governor for the Asian Region and the Governor for the South American Region shall be elected in the odd-numbered years. The Governor for the North American Region, Governor for the European Region and Governor for the Indo-Pacific Region shall be elected in the even-numbered years. Newly elected Governors shall assume the responsibilities of their office on January 1 of the year following their election. Regional Governors may serve consecutive terms.

**Section 4: Election of Regional Governors.** Elections for regional governors shall be conducted as specified for officers in Article 5, Section 3.

**Section 5: Vacancies in Regional Governorships.** Vacancies that occur among the Board's Regional Governors shall be filled by a presidential appointee, approved by the Board, until the next regularly scheduled election for that governorship.

**Section 6: Removal from a Governorship.** Procedures for removal of an elected Regional Governor from a governorship shall be the same as specified for removal of officers in Article 5, Section 5. The resultant vacancy shall be filled as specified in Article 6, Section 4.

#### Article 7: Meetings.

**Section 1: Board of Governors.** The Board shall meet at least once a year prior to the annual meeting. The President may call additional meetings if conditions arise to warrant such meetings. A quorum of the Board membership shall be represented by half (1/2) or more of the total number of Board Members. Actions and approvals by the Board, except where otherwise specified in the Constitution or Bylaws, shall require a two-thirds (2/3) majority of the assembled quorum at a Board meeting or a two-thirds (2/3) majority of the entire Board in a mail poll of the Board membership. Actions of the Board may be amended at any annual meeting of the Society by a two-thirds (2/3) majority of the voting members present.

**Section 2: Annual Meeting.** The Society shall meet at least once a year.

#### Article 8: Publications.

Publications of the Society shall be the Journal of Crustacean Biology and any additional publications the Board may authorize.

#### Article 9: Limitation.

The purposes of the Society are listed in Article 2 of the Constitution. Lobbying, or any activities specifically designed to influence legislation, support political groups, or advance popular, political, scientific or religious causes are not among the objectives of the Society and neither the Society nor any official group within the Society shall engage in such activity.

#### Article 10: General Prohibitions.

Notwithstanding any provision of the Constitution or Bylaws which might be susceptible to a contrary construction:

- The Crustacean Society shall be organized exclusively for scientific and educational purposes;
- The Crustacean Society shall be operated exclusively for scientific and educational purposes;
- No part of the net earnings of the Crustacean Society shall or may under any circumstances accrue to the benefit of any private shareholder or individual;
- No part of the activities of The Crustacean Society shall consist of conducting propaganda, supporting any outside causes or positions, or otherwise attempting to influence legislation;
- The Crustacean Society shall not participate in, or intervene in political campaigns (including the publishing or distributing of political statements) on behalf of any candidate for public office;
- The Crustacean Society shall not be organized or operated for profit;
- The Crustacean Society shall not:
  - lend any part of its income or corpus, without the receipt of adequate security and a reasonable rate of interest, to;
  - pay any compensation, in excess of a reasonable allowance for salaries or other compensation for personal services actually rendered, to;
  - make any part of its services available, or preferential bases, to;
  - make any purchase of securities or any other property, for more than adequate consideration in money or money's worth, from;
  - sell any securities or other property, for less than adequate consideration in money or money's worth, to;
  - engage in any other transactions which result in substantial diversions of its income or corpus to; any officer, member of the Board, or substantial contributor to the Society. The prohibitions contained in this subsection (g) do not imply that the Society may make such loans, payments, sales or purchases to anyone else, unless such authority be given or implied by other provisions of the Constitution or Bylaws.

#### Article 11: Distribution of Dissolution.

Upon the dissolution of the Society, the Board shall, after paying or making provision for the payment of all of the liabilities of the Society, dispose of all of the assets of the Society exclusively for the purposes of the Society in such manner, or to such organization or organizations organized and operated exclusively for educational or scientific purposes as shall at the time qualify as an exempt organization or organizations under section 501(c)(3) of the Internal Revenue Code of 1954 (or the corresponding provision of any future United States Internal Revenue Law), as the Board shall determine. Any such

assets not so disposed of shall be disposed of by the Court of Common Pleas of the county in which the principal office of the Society is then located, exclusively for such purposes or to such organization or organizations, as said Court shall determine, which are organized and operated exclusively for such purposes.

**Article 12: Amendments.**

This Constitution may be amended by a two-thirds (2/3) majority of those members voting at any annual meeting of the Society or in a mail ballot. In either case, notice of the proposed action will be sent to each voting member of the Society by the Secretary at least sixty (60) days before the date of the vote.

**Article 13: Bylaws.**

The Society may elect Bylaws for interpretation and implementation of this Constitution. Bylaws may be adopted, amended, or repealed by a two-thirds (2/3) majority of those voting at any annual meeting of the Society or in a mail ballot. In either case, notice of the proposed action shall be sent to each voting member of the Society by the Secretary at least sixty (60) days before the date of the vote.

**Article 14: Divisions.**

At the discretion of the Board, the Society may establish separate Division(s) empowered to hold scientific meetings and to elect officers to carry out divisional activities under the overall sponsorship of the Society.

**THE CRUSTACEAN SOCIETY BYLAWS**

**Bylaw 1: Types of Membership.**

The following types of members are recognized for the purpose of assessing dues:

- a) **Regular, North American** - Permanent residents of the United States, Canada, and Mexico and all of their possessions.
- b) **Regular, Outside North America** - Permanent residents of countries other than those listed in part a.
- c) **Sustaining** - Members contributing a yearly amount as determined by the membership. Sustaining Members shall be recognized in the Society's journal.
- d) **Associate** - Members that opt not to receive the Society journal, but that are entitled to all other rights and privileges of membership.
- e) **Emeritus** - Honorary membership accorded to outstanding scientists by action of the Board, with rights and privileges as defined in Bylaw 2.
- f) **Institutional** - Institutions or organizations shall be classified by the following categories accorded to individual members: Regular, Sustaining, or Founding. Additional categories may be established by the Board.
- g) **Founding** - Members contributing \$100 (U.S.) or more in dues in 1980 only.

Other classes of membership may be created by action of the Board of Governors.

**Bylaw 2: Emeritus Members.**

Emeritus status shall be awarded to outstanding scientists in the field of crustacean biology. An individual may be accorded Emeritus status by approval of the Board. Emeritus Members shall receive, without cost, all rights to membership except the Society's journal. The journal can be obtained by Emeritus Members at the current publisher's cost or a lesser fee if approved by the Board.

**Bylaw 3: Endowment Funds.**

The General Endowment Fund shall consist of contributions by members to the Fund and other monies that may be collected by the Society and allocated to the Fund by the Board. The Board may vote to use money from the Fund for any activity directly related to the functioning of the Society and not in violation of its Constitution and Bylaws. Additional special purpose endowment funds may be established as needed. Special purpose funds may be expended only for the designated purpose of those funds and shall not be used for any activity that violates this Constitution or Bylaws.

**Bylaw 4: Duties of Officers.**

A) **Past-President.** The office of Past-President shall be filled by the immediate Past-President of the Society. The Past-President shall serve as parliamentarian at meetings of the Board and business meetings of the Society membership. The Past-President shall also assume primary responsibility for promotion of the Society's journal to institutional subscribers and for solicitation of appropriate book offerings for the Society membership.

B) **President.** The President shall call and preside at meetings of the Society and the Board, represent the Society's interests in external business affairs, and perform such other functions as may be defined in the Constitution and Bylaws. Should the office of President-Elect become vacant, the President shall temporarily assume all duties of the President-Elect until a special

election can be conducted. The President shall succeed to the office of immediate Past-President upon the expiration of the President's term.

C) **President-Elect.** The President-Elect shall solicit nominations for offices and governorships from the membership and present nominations to the Board for consideration when they adopt a slate of candidates. The President-Elect shall oversee all elections and other votes by the membership and be responsible for tabulating and disseminating results for all elections and votes on Bylaws and Amendments to the Constitution. The President-Elect shall perform all duties incumbent upon the President during any period(s) when the President is incapable of fulfilling those duties for the Society and shall succeed the President to that office upon the expiration of the President's term. Should the office of Past-President be vacant, the duties incumbent upon the office of Past-President shall be additional duties of the President-Elect.

D) **Treasurer.** The Treasurer shall be in charge of funds, make necessary disbursements, direct and oversee fund-raising activities, and keep the financial records of the Society. The Treasurer shall present a statement of financial accounts, audited by the Financial Committee, at the time of the annual business meeting.

E) **Secretary.** The Secretary shall keep the Society calendar of events, advise officers of deadlines, record minutes for all Board and Annual meetings, issue notices for meetings of the Board and the Society, conduct the correspondence of the Society and Board, be responsible for mailing ballots, and present a written yearly summary of the Society's activities to the Membership. The Secretary shall compile and edit the Society newsletter, or shall supervise this activity if it is delegated by the Secretary to a newsletter editor.

F) **Program Officer.** The Program Officer shall be responsible for arranging and/or coordinating all symposia, workshops, conferences and similar activities in which the Society takes part.

**Bylaw 5: Duties of Journal Editor.**

The Editor shall guide activities of the Editorial Committee in accord with directions from the Board, report to the Board on progress and cost of publications, and advise the Board on all policy decisions related to publications. The Editor shall recommend Associate Editors and their terms of service to the Board for approval.

**Bylaw 6: Duties of Regional Governors.**

Regional Governors shall serve to represent the best interests of the membership in all activities of the Board. In addition they shall serve to actively recruit and maintain Society membership and subscriptions to the Society journal in their respective regions.

**Bylaw 7: Committees.**

The Society shall maintain standing Financial and Editorial Committees. Responsibilities, in addition to those specified below, may be delegated to these committees by the President. Additional standing or ad hoc committees may be created by the President or the Board. Appointed committee members shall hold their position for one year and may serve an unlimited number of terms.

a) **Financial Committee.** The Financial Committee shall consist of the Treasurer, who shall serve as Chair, and two members appointed by the Treasurer and approved by a majority vote of the Board. The Financial Committee shall

prepare the annual budget for submission to the Board, audit all financial statements and shall advise the Board in all financial matters affecting the Society.

b) **Editorial Committee.** The Editorial Committee shall consist of the Editor, who shall serve as Chair, and Associate Editors deemed necessary by the Editor (maximum of twelve) and approved by the Board. The Editorial Committee shall be responsible for management of the Society journal and all other scholarly publications of the Society.

c) **Awards Committee.** An Awards Committee of at least five (5) members of the Society shall be appointed by the Society President to annually evaluate and nominate published papers and oral presentations for special recognition by the Society, and to periodically nominate a distinguished crustacean biologist to be recognized for a lifetime contribution to the field. Nominations by the committee, and the substance of all awards to be presented, shall be reported to the Board and shall require approval by the Board before recipients of awards are publicly announced and before awards are granted.

**Bylaw 8: Nominations.**

Nominating activities of the Board shall be directed by the President-Elect, who shall solicit potential nominees from the membership. Members may, as individuals or by group-petition, submit the names of nominees to the President-Elect. The President-Elect will contact nominees, certify their willingness to run for election, and recommend a pool of qualified nominees to the Board. The Board shall approve a slate of recommended candidates for the next election with at least one nominee listed for each open office or governorship. In addition to names of candidates on the official ballot, spaces will be provided for write-in candidates. All nominees and candidates must be members in good standing.

**Bylaw 9: Divisions.**

A Division may be organized within the Society in any area of specialization or geographical region by not less than 25 members of the Society, upon written request to, and approval by, the Board. Divisional officers shall consist of: a Chairperson, a Secretary-Treasurer (or a Secretary and a Treasurer), and a Program Officer. A Division of the Society shall be entitled to formulate its own bylaws but such bylaws shall not conflict with the Constitution and Bylaws of the Society. A Division shall not collect dues on behalf of the Society but may collect registration fees for meetings. Expenses of the Division shall be paid from the treasury of the Society within limits of the amount allotted for this purpose in the annual budget of the Society and from funds received from special projects. No officer or member of a Division shall have authority to incur any expense in the name of the Society, except as above specified.

**Bylaw 10: Disbanding of the Organizing Council.**

Members of the Organizing Council who are not elected to an Office or to a governorship may, if they desire, serve as voting members of the Board of Governors for a period not exceeding two (2) years beyond formation of the Board of Governors. Members of the Council elected as Officers or Governors shall serve terms as described in the Constitution.



CRUSTACEAN SOCIETY ELECTIONS

Listed below are the candidates (incumbents) for the Crustacean Society posts which are up for election this year. Check the box adjacent to the incumbent's name, or check the write-in box and in write another candidate of your choice. Please detach the ballot from the newsletter, fold and staple as directed on the reverse side, affix a stamp, and drop it in the mail.

SECRETARY

Dr. Paul Haefner, Dept. Biology, Rochester Institute of Technology, Rochester, Ny

Write-In Candidate.....   
.....

TREASURER

Dr. Denton Belk, Biology Dept., Our Lady of the Lake University, San Antonio, Texas

Write-In Candidate.....   
.....

NORTH AMERICAN REGIONAL GOVERNOR

Dr. Elizabeth L. Wenner, South Carolina Research Institute, Charleston, South Carolina

Write-In Candidate.....   
.....

EUROPEAN REGIONAL GOVERNOR

Dr. Jan Stock, Zoological Museum, Amsterdam, The Netherlands

Write-In Candidate.....   
.....

INDO-PACIFIC REGIONAL GOVERNOR

Dr. D.T. Anderson, Zoology, Dept. Biological Sciences, University of Sydney, Australia

Write-In Candidate.....   
.....

staple

Fold 2

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Stamp

Dr. Darryl L. Felder  
Department of Biology  
P.O. Box 42451  
University of Southwestern Louisiana  
Lafayette, LA 70704

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Fold 1

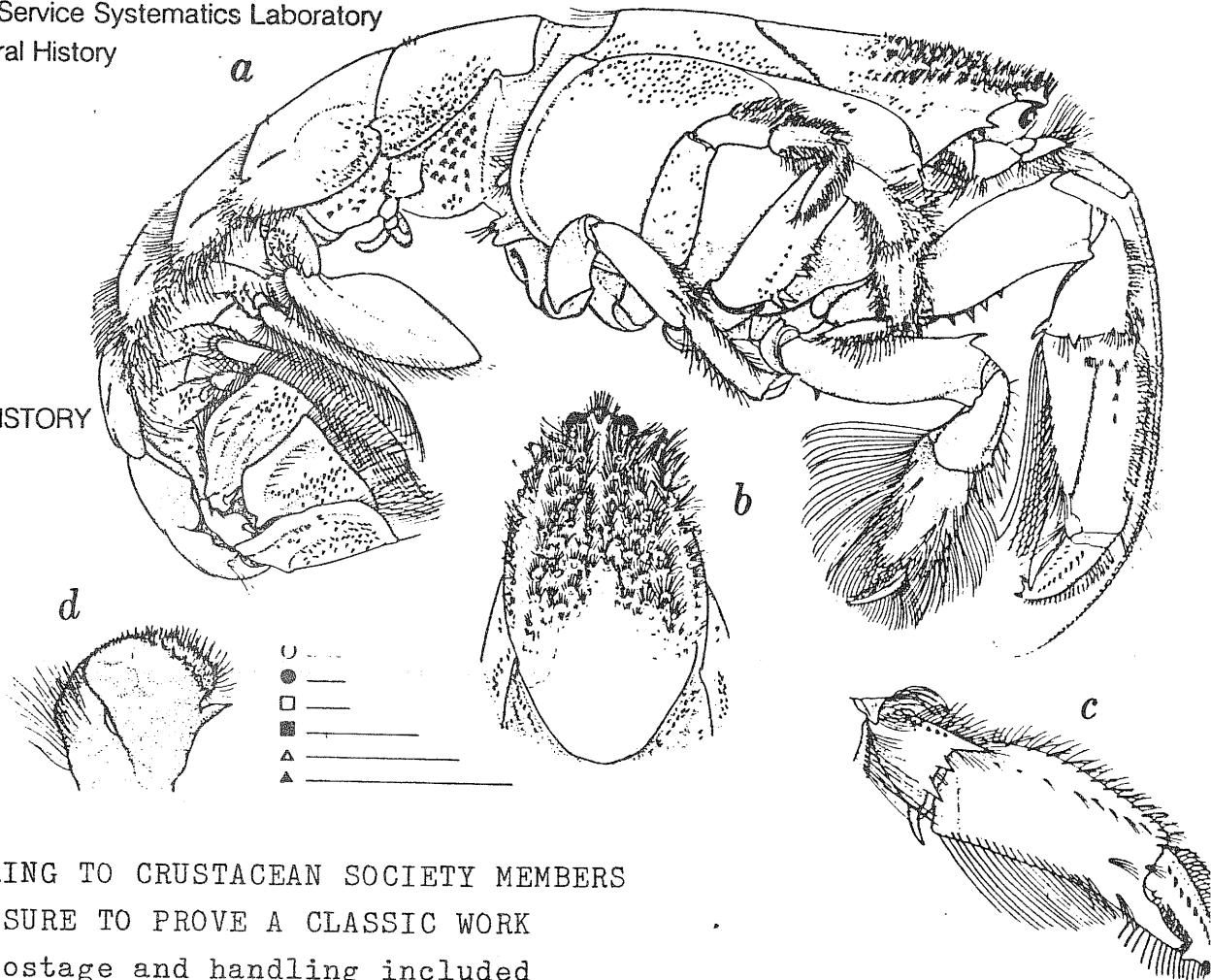
# MUD SHRIMPS, *UPOGEBIA*, FROM THE EASTERN PACIFIC (THALASSINOIDEA: UPOGEBIIDAE)

AUSTIN B. WILLIAMS  
National Marine Fisheries Service Systematics Laboratory  
National Museum of Natural History  
Washington, D.C. 20560

SAN DIEGO  
SOCIETY OF NATURAL HISTORY

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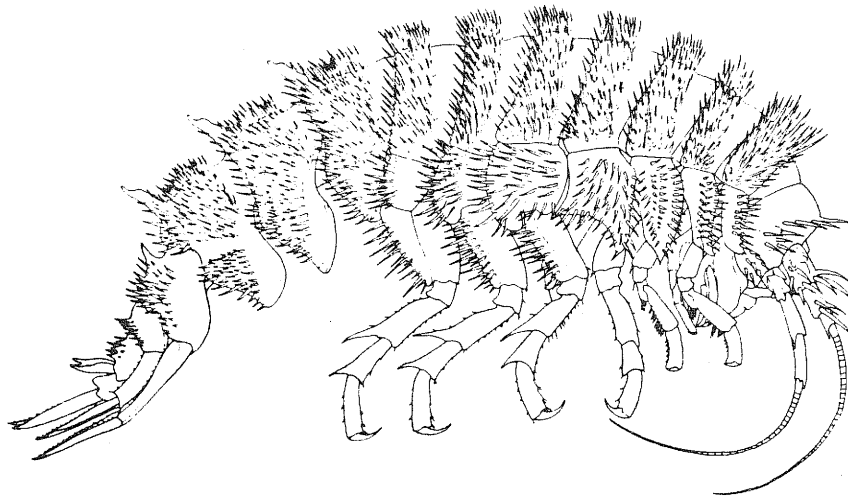
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*Urechis caupo* Gurjanova [after Shoemaker, 1964].  
From Barnard (1969)



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