



# THE ECDYSIAST

## Newsletter of the Crustacean Society

VOLUME 3 NUMBER 1

FEBRUARY, 1984

### NEW OFFICERS

There is a new slate of Officers for 1984-85. Their addresses and telephone numbers are listed below. Please be aware that the Organizing Council has been dissolved, and that a new office, Past President, was created at the Annual Meeting in Philadelphia. The Business Office will remain in Washington.

#### President:

Lawrence G. Abele  
Dept. Biol. Sciences  
Florida State Univ.  
Tallahassee, FL 32306  
(904) 644-3700

#### President-Elect:

Frederick R. Schram  
P.O. Box 1390  
San Diego, CA 92112  
(619) 232-3821

#### Secretary:

Paul A. Haefner, Jr.  
Dept. Biology  
Rochester Inst. Tech.  
P.O. Box 9887  
Rochester, NY 14623-0887  
(716) 475-5143 or -2496

#### Treasurer:

C. W. Hart, Jr.  
IZ NHB STOP 163  
Smithsonian Institution  
Washington, DC 20560  
(202) 357-2506

#### Past President:

Raymond B. Manning  
IZ NHB W323  
Smithsonian Inst.  
Washington, DC 20560  
(202) 357-2506

#### Governor-At-Large:

Jacques Forest  
Laboratoire de Zoologie (Arthropodes)  
Museum national d'Histoire naturelle  
61 Rue deBuffon  
75005 Paris, FRANCE

#### Editor of Journal:

Arthur G. Humes  
Boston Univ. Mar. Prog.  
Marine Biol. Lab.  
Woods Hole, MA 02543  
(617) 540-1979

#### Program Chairperson

Andrian Wenner  
Marine Science Institute  
University of California, Santa Barbara  
Santa Barbara, CA 93106  
(805) 961-2838

---

#### Addresses:

Ecdysiast Editor  
Dr. P. A. Haefner, Jr.  
Department of Biology  
Rochester Institute of Technology  
P.O. Box 9887  
Rochester, New York 14623-0887

Business Office  
The Crustacean Society  
IZ-NHB-W323  
Smithsonian Institution  
Washington, DC 20560

## STATE OF THE SOCIETY

The following summarizes the information derived from the October, 1983 meeting of the Board of Governors, and the Annual Meeting of the Society held in Philadelphia.

Membership currently stands at about 850 members; subscriptions to the Journal total 175. Fred Schram will be coordinating membership development. Members are urged to assist in recruiting new members and subscriptions!

The discount book program is working well; more than 700 copies of individual volumes of *The Biology of Crustacea* series have been sold to members.

The following actions were taken by the Board of Governors:

1. A Visa/Mastercharge account will be established to facilitate dues collection and processing book orders.
2. A European Currency Account has been created in England to enable European members to pay dues and place book orders without accruing currency-conversion charges.
3. An Endowment Fund will be created by allocating 10% of annual dues to this account. The goal is to expand the account to cover the equivalent of one year's cost of publishing the Journal.
4. A Membership Directory will be published early in 1984.
5. A new class of membership has been established. See description elsewhere in this issue for details.
6. The following changes in the Journal were recommended:
  - a. Titles of papers will be grouped in the Table of Contents under topic headings.
  - b. Invited review papers, one per year, will be published at Society Expense.
  - c. Short biographies of carcinologists will be published as fillers.

The Symposium Committee was abolished. In the future, symposia will be approved by the Board of Governors acting upon proposals by the Program Chairperson.

The Board gave Les Watling tentative approval to proceed with organization of a symposium on functional morphology of feeding and grooming for the Baltimore (1985) meeting.

The Board asked Austin Williams to chair a group of Society members to participate in The American Fisheries Society endeavor to publish a list of common names of North American crustaceans.

The charge for institutional subscriptions to the Journal will be increased to \$40.00 in 1985.

The Business Office will remain in Washington, DC. The position of "Past-President" was established by a vote of the membership at the Philadelphia meeting.

## CURATORIAL POSITION IN INVERTEBRATE ZOOLOGY

Applications are solicited for a curatorial position in Invertebrates at The Natural History Museum of Los Angeles County. Responsibilities consist of the conduct of collection-oriented research on the systematics of marine crustaceans and annelids, active participation in collection management, and participation in public programs of the Museum. Applicants must possess a doctorate or provide certification that it will be granted within a short time. Position will be filled at the level of the best-qualified candidate. Starting curatorial salaries: Assistant \$20,176; Assoc. \$23,794; Full \$30,276. Applications including names of three references should be sent before March 15, 1984 to: Dr. Daniel M. Cohen, Natural History Museum of L.A. County, 900 Exposition Blvd., Los Angeles, CA 90007, (213) 744-3367. An Equal Opportunity Employer.

## PHILADELPHIA

The Crustacean Society met with The American Society of Zoologists during a very frigid Dec 26-30, 1983. It was a well-attended and successful conference. The meetings got off to a memorable start with the Symposium on Crustacean Biogeography. The 100 or so spectators were treated to one of the more original slide shows ever proffered! Things tamed down, however, and productivity reigned. Society members participated in three contributed paper sessions as well as two symposia (Biogeography, and Crustacean Endocrinology). Two events were held at the Philadelphia Academy of Natural Sciences: A Social co-hosted by the Society and the Academy, and the Society's dinner in honor of Paul Illig. The Annual Meeting of the Society rounded out the events.

THANK YOU, THANK YOU, THANK YOU!!!

On behalf of the members of The Crustacean Society, this editor wishes to thank the previous slate of Officers, the Governing Board, and the Organizing Council for their tireless efforts in placing this society, and its fine journal, on firm ground. Let us forget those pioneers, they are Ray Manning, Larry Abele, Arthur Humes, Fred Schram, Bill Hart, Darryl Felder, Les Watling, Patsy McLaughlin, Adrian Wenner, Tony Provenzano, Tom Wolcott, Horton Hobbs, III, Tony Rice, and Paul Sandifer.

## 1982 OUTSTANDING PAPER AWARD

The Board of Governors approved the recommendation of The Awards Committee that Charles D. Derby receive the 1982 Outstanding Paper Award for his paper "Structure and function of cuticular sensilla of the lobster *Homarus americanus*". To quote the committee, "This paper depicts skillful use of innovative techniques for evaluation of setal functions. Derby commendably relates the sensillar functions he identifies to their biological significance for the lobster as a whole animal. He conscientiously compares what he learns from *Homarus* with the available literature on the setae of other crustaceans." The paper can be found in *J. Crust. Biol.* 2(1):1-21. Congratulations to Dr. Derby.

## BIBLIOGRAPHIES

The University of Osnabruck has announced the availability of "Bibliographies from the Crustacea - Database". They are Bibliography of Tanaidacea (\$3.50), and Bibliography of Mystacocarida and Spaeleogriphacea (\$1.50). Additional charge for postage is required for mailing within Europe (\$0.50) and overseas (\$1.50). Make checks payable to "Dr. Jurgen Sieg, Vechta". Send orders to Dr. Sieg, Universitat Osnabruck, Abteilung Vechta, Driverstr. 22, 2848 VECHTA, Germany.

## ASSOCIATE MEMBERSHIP

The Board of Governors has established a new class of membership. An "Associate Membership" is available for \$15.00 per year to members of the World Mariculture Society who provide evidence of current standing in that society, and who are not presently members in The Crustacean Society. Benefits of Associate Membership include substantial discounts on new books, receipt of the *Ecdysiast*, and all other benefits of regular membership with the exception of a subscription to the Journal of Crustacean Biology. This is being conducted on a trial basis with the mariculturists. If it proves successful, Associate Membership will be offered to other groups in the future.

**BOOK DISCOUNTS**

The Crustacean Society offers members or subscribers to the Journal discount on selected books. The volumes available for purchase, and their cost to you, are advertised in this issue. Interested members should send pre-paid orders, checks payable to the Crustacean Society, to the Business Office (address on front page of this newsletter). You may want to inquire about the use of your VISA/Mastercharge to make these purchases. The Society is planning to establish an account for such purposes. Reminder: these purchases are tax-deductible!

**BOOKS BY MEMBERS**

This space is reserved for those members of The Crustacean Society who have written or edited books. It is a space for free advertising, but is assuredly devoid of the "Madison Avenue" flair. If you have been productive in this way, and desire to have your book publicized, send pertinent details to the Ecdysiast editor.

Aguitos de Castellanos, Z. J. and Estela C. Lopretto. 1983. Los Invertebrados. Tomo 1. Los Protistas de filiación animal. Manuales Eudeba, Buenos Aires. 390 pp., 192 figs. For information of cost and availability, write to: Estela C. Lopretto, Casilla de Correo 326, (1900) La Plata, Provincia de Buenos Aires, Republica Argentina.

Smirnov, N. N. and B. V. Timms. 1983. A revision of the Australian Cladocera. Records of the Australian Museum, Supplement 1. This comprehensive treatment will be about 135 pages in length, and covers 125 species in 40 genera. Keys to all cladoceran families and genera are included along with keys to all Australian species. (\$26.50 Australian and New Zealand- \$30.00 elsewhere, includes air mail postage and handling). Send payment in Australian dollars, if possible, to Circulation Officer (Community Relations). The Australian Museum, P. O. Box A 285, Sydney South, NSW 2000 Australia.

**FAIRY SHRIMP WANTED!!!**

California fairy shrimps (Anostraca). Denton Belk's group is studying and mapping the distribution of anostracans in California. Please contact him if you have specimens. His address is: 840 E. Mulberry, San Antonio, Texas 78212; phone (512) 732-8809. You may also contact Dr. Larry L. Eng, (916) 355-0842, Dept. of Fish and Game, 1701 Nimbus Rd., Suite "C", Rancho Cordova, CA 95670.

**PROCEEDINGS PUBLISHED!!!**

The proceedings of "Colloquium II, Crustacea Decapoda Mediterranea", held in Ancona, Italy in 1979, have been published by the Istituto di Ricerche sulla Pesca Marittima in Ancona. The volume is not for sale, but copies may be obtained by institutions or individuals on an exchange basis. For further information, write to Dr. Carlo Froggia, I.R.P.E.M., Melo Mandracchio, 60100 Ancona, Italy.

**T-SHIRT COLLECTORS!!!**

Society-Logo T-shirts are still available in tan or blue, in adult S, M, L, XL for \$7.00 each. Send orders to Joseph W. Goy, Dept. of Biology, Univ. of Southwestern Louisiana, Lafayette, LA. 70504.

**CHANGE OF ADDRESSES!!!**

Please avoid unnecessary changes of address by using your institutional address for Society mailings. Changes are costly, so try your best to save us money. Thank you!

**The Biology of Crustacea**

*Editor-in-Chief*  
**DOROTHY E. BUSS**  
**Volume 1: Systematics, the Fossil Record, and Biogeography**  
Edited by  
**LAWRENCE G. ABELE**  
1982. 326 pp. \$34.00  
ISBN: 0-12-106403-4  
Subscription price: \$34.00

CONTENTS: Thomas E. Bowman and Lawrence G. Abele: Classification of the Recent Crustacea. Tracy A. McLaughlin, George T. Taylor, and Martin L. Cisar: Origin of the Crustacea. Frederick L. Scarin: The Fossil Record and Evolution of the Crustacea. Robert L. Hesler, Brian M. Marston, William A. Newman, and Rosalind F. Madocks: Evolution within the Crustacea. Lawrence G. Abele: Biogeography of the Crustacea. Each chapter contains references. Systematic Index. Subject Index.

**\$30.75**

**Volume 2: Embryology, Morphology, and Genetics**

Edited by  
**LAWRENCE G. ABELE**  
1982. 432 pp. \$44.00  
ISBN: 0-12-106402-6  
Subscription price: \$44.00

CONTENTS: Donald T. Anderson: Embryology and Diversity. William L. Alford: Morphology and Anatomy. Richard Herrick: Growth. Felix A. McLaughlin: Functional Morphology of Crustacean Appendages. T. Giesbrücker-Vogel and H. Giesbrücker: Color. Sea-Determination. Dennis Hildner: Martin Tracy and Keith Nelson: Genetics. Each chapter contains references. Systematic Index. Subject Index.

**\$37.15**

**Volume 3: Neurobiology: Structure and Function**

Edited by  
**HAROLD L. ATWOOD**  
**DAVID C. SANDEMAN**  
1982. 312 pp. \$44.00  
ISBN: 0-12-106403-4  
Subscription price: \$44.00

CONTENTS: David C. Sandeman: Organization of the Central Nervous System. C. K. Goy and Harold L. Atwood: Organization of Neuro-muscular Systems. Harold L. Atwood: Synapses and Neurotransmitters. W. D. Chesler: Muscle and Gonyax: Development of Nerve, Muscle, and Synapse. I. Cork and R. E. Sullivan: Hormones and Neurosecretion. S. R. Sherr and S. Sherr: Photoreception. B. W. Ahr: Chemoreception and Mechanoreception. B. W. Ahr: Each chapter contains references. Systematic Index. Subject Index.

**Volume 4: Neural Integration and Behavior**  
Edited by  
**DAVID C. SANDEMAN**  
**HAROLD L. ATWOOD**  
1982. 352 pp. \$34.00  
ISBN: 0-12-106404-2  
Subscription price: \$34.00

CONTENTS: C. A. G. Weisana, J. Beck, and R. Glantz: Neural Integration in the Optic System. C. H. Paig: Control of Posture. W. H. Ewy and J. Agur: Locomotion and Control of Limb Movements. A. McVean: Autonomy. D. Noll: Compensatory Eye Movements. T. J. Wiersma: Control of Mouthparts and Guts. T. J. Wiersma: Small Systems of Neurons: Control of Rhythmic and Reflex Activities. T. Nishida and F. Krasner: The Cellular Organization of Crayfish Escape Behaviors. P. Hildebrand: On the Behavior of Control of Complex Behaviors. Each chapter contains references. Systematic Index. Subject Index.

**\$28.00**

**Volume 5: Internal Anatomy and Physiological Regulation**

Edited by  
**LINDA H. MANTEL**  
February/March 1983. 496 pp. \$54.00  
ISBN: 0-12-106405-9  
Subscription price: \$54.00

CONTENTS: Peter A. McLavall: Internal Anatomy. Linda H. Mantel and Linda J. Mansueti: Osmotic and Ionic Regulation. David L. Clark: Nitrogen Metabolism. William Dall and David J. W. Murray: Functional Aspects of Nutrition and Digestion. Ernest S. Cheng and John D. O'Connor: Metabolism and Transport of Carbohydrates and Lipids. B. R. McMillan and J. L. Wilkins: Ventilation, Perfusion and Oxygen Uptake. Charles P. Mangum: Oxygen Transport in the Blood. J. P. Truett: Regulation of Acid-Base Balance. Each chapter contains references. Systematic Index. Subject Index.

**\$42.75**

**Volume 6: Pathobiology**

Edited by  
**ANTHONY J. PROVENZANO, JR.**  
March/April 1983. 320 pp. \$34.00  
ISBN: 0-12-106406-9  
Subscription price: \$34.00

CONTENTS: Phyllis T. Johnson: Diseases Caused by Viruses, Rickettsiae, Bacteria and Fungi. John A. Clark: Diseases Caused by Protozoa. Frank B. Bony: Crustacean Disease Responses. Robin M. Overstreet: Metazoan Symbionts of Crustaceans. Roger F. Cross: Crustaceans as Parasites of Other Organisms. Each chapter contains references. Systematic Index. Subject Index.

**\$29.25**

**Volume 7: Behavior and Ecology**  
Edited by  
**F. JOHN VERNBERG**  
**WINONA B. VERNBERG**  
April/May 1983. 372 pp. \$44.00  
ISBN: 0-12-106407-7  
Subscription price: \$44.00

TENTATIVE CONTENTS: Michael Salmon and Gary W. Hight: Communication. William T. Hirsh: Movement Patterns and Orientation. Peter S. Buckler: Biological Timing. D. N. Reynolds: Behavior. N. K. S. Bell: Light and Ecology. Bruce C. Coull: Social and Biologic Assemblages. Population and Communities. Each chapter contains references. Systematic Index. Subject Index.

**\$33.75**

**Volume 8: Environmental Adaptations**

Edited by  
**F. JOHN VERNBERG**  
**WINONA B. VERNBERG**  
May/June 1983. c. 314 pp. In preparation  
ISBN: 0-12-106408-5

TENTATIVE CONTENTS: F. John Vernberg: Respiratory Adaptations. Jan N. Garono: Osmotic and Ionic Regulation. Environmental Adaptations of the Benthic System. Martin L. Cisar: Uric Acid and Osmoregulation. Greenwell: Adaptive Aspects of Feeding Mechanisms. B. Giller and A. Pavesi: Interactions of Chemical and Osmotic Regulation with the Environment. A. N. Scurry: Ecological Aspects of Reproduction. Lawrence Powers and Dorothy E. Buss: Terrestrial Adaptations. F. John Vernberg and Winona B. Vernberg: Freshwater Adaptations. Each chapter contains references. Systematic Index. Subject Index.

**\$33.75**

**Volume 9: Integument, Pigments, and Hormonal Processes**

In Preparation  
Edited by  
**DOROTHY E. BUSS**  
**LINDA H. MANTEL**

**\$33.75**

**Volume 10: Fisheries and Culture**

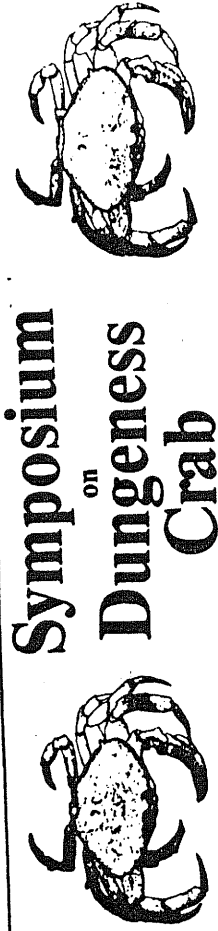
Edited by  
**ANTHONY J. PROVENZANO, JR.**

**\$33.75**

\*Subscription prices are valid only on purchase of all volumes before publication of the last volume. Subscription prices are not valid on orders from Australia or New Zealand



# CALL • FOR • PAPERS



## Symposium ON Dungeness Crab

# Biology and Management

October 9-11, 1984 Anchorage, Alaska, USA

The purpose of this symposium is to bring together the widest possible spectrum of participants from the United States and Canadian west coast to discuss the biology and management of Dungeness crab, *Cancer magister*, fisheries.

Topics to be covered during the symposium include:

Overviews of the fisheries  
(California, Oregon, Washington, British Columbia, and Alaska regions)

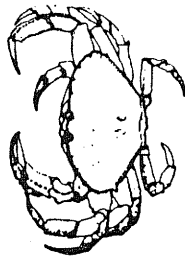
Life history  
(early life history, reproduction, feeding, growth and distribution)

Mortality  
(fishing and fishing-related, natural and artificial stressors, interactions with marine mammals)

Tagging studies

Population estimation/stock assessment

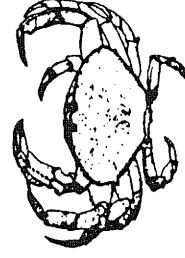
In addition to technical sessions, a workshop to identify future research needs for management purposes will be conducted. A proceedings document including all presentations as well as a summary of the workshop and recommendations made will be published.



### Papers

Those interested in presenting a paper at the symposium are encouraged to submit a one- to two-page abstract by **February 29, 1984** to:

Branda Meheff  
Symposium Coordinator  
University of Alaska Sea Grant  
590 University Avenue, Suite 102  
Fairbanks, Alaska 99701



### Symposium Sponsors:

Pacific Sea Grant College Program  
University of Alaska  
University of California  
University of Hawaii  
Oregon State University  
University of Washington  
Alaska Department of Fish and Game

Details on locations will be given in a later announcement. For further information on the symposium, please contact the symposium coordinator at the above address or (907) 474-7086.

### MEETINGS

22 July- 4 Aug 84 Guam and Ponape.

2nd International Symposium Indo-Pacific Tropical Marine Biology.

Contact: D. H. Montgomery  
Biol. Sci. Dept.  
California Polytech.  
San Luis Obispo, CA 93407  
(805) 546-2446

13- 17 Aug 84 Ottawa, Ontario, Canada

Conference on Copepoda, Biogeography, Behavioral Ecology, Growth and Culture, Morphology, Phylogeny.

Contact: Ian Sutherland  
Nat'l Mus. Nat. Sci.  
Invert. Zool. Div.  
Ottawa, Ontario  
Canada KIA 0M6

9- 11 Oct 84 Anchorage, Alaska  
Symposium on Dungeness Crab Biology and Management.

Contact: see advertisement,  
this issue!

25-26 Oct 84 Edinburgh, Scotland

Fossil Arthropods as Living Organisms. Purpose to provide a forum for palaeontologists and neontologists to consider together the form and function of living and fossil arthropods.

Contact: Meetings Secretary  
Royal Society of Edinburgh  
22-24 George St.  
Edinburgh, EH2 2F0  
Scotland

29-31 Oct 84 Merida, Yucatan, Mexico.

Biogeography of Central America. Sessions on plants, animals, and human geography as well as diseases, vectors and cultivars.

Contact: Luis Diego Gomez  
Museo Nacional  
Apartado 749  
San Jose, Costa Rica

Arthur L. Weiden  
Dept. Biology  
Tulane Univ.  
New Orleans, LA 70118

Arturo Gomez-Pompa  
Dir. General, INIREB  
Apartado 63  
Jalapa, Veracruz 91000  
Mexico

27-30 Dec 84 Denver, Colorado

The Crustacean Society and ASZ.  
Contact: see advertisement,  
this issue!

Mary Wiley, Executive Officer.  
American Society of Zoologists.  
Box 2739 California Lutheran College.  
Thousand Oaks, California 91360.  
Telephone: 805 492-3585

THE JOURNAL OF CRUSTACEAN BIOLOGY

Several changes in the journal will occur in the near future. These have been mentioned elsewhere in this issue of the newsletter. You may be interested in the following table which outlines the changing coverage of the journal with respect to systematics vs. other subjects. This information was provided by Arthur Humes.

Comparison of papers on systematics with those on other subjects in Journal of Crustacean Biology vols. 1-3

	pages	papers on systematics	percentage	papers on other subjects	percentage
1(1)	147	64	44%	83	56%
1(2)	139	100	72%	39	28%
1(3)	151	66	44%	85	56%
1(4)	111	6	5%	105	95%
	548	236	43%	312	57%
2(1)	153	70	46%	83	54%
2(2)	154	77	50%	77	50%
2(3)	153	49	32%	104	68%
2(4)	149	44	30%	105	70%
	609	240	39%	369	61%
3(1)	157	29	19%	128	81%
3(2)	165	35	21%	130	79%
3(3)	161	66	41%	95	59%
3(4)	157	40	26%	117	74%
	640	170	27%	470	73%

IS THIS SOMEONE YOU KNOW?

"Mature males can be distinguished from females by their better developed sense organs: larger eyes (when present), a larger number and longer esthetascs, and also by their more developed pleopods. The male uses his much larger chelae for tearing open the dwelling tube of the female prior to mating." from Kaestner, A. 1970. Invertebrate Zoology, Vol 3, Crustacea, p. 405. Interscience Publ. (John Wiley & sons), NY.

AMERICAN MICROSCOPICAL SOCIETY, ANIMAL BEHAVIOR SOCIETY, BIOLOGICAL SOCIETY OF WASHINGTON, CRUSTACEAN SOCIETY, INTERNATIONAL ASSOCIATION OF ASTACOLOGY, SOCIETY OF SYSTEMATIC ZOOLOGY, AND WESTERN SOCIETY OF NATURALISTS

MARRIOTT CITY CENTER HOTEL  
HOLIDAY INN DENVER DOWNTOWN HOTEL  
DENVER, COLORADO

DECEMBER 27 - 30

Call for Papers: April 1984  
Abstract Deadline: Mid-August, 1984  
For Oral and Poster Presentations

Housing Rates:

\$40 Single, \$48 Double or Twin at the Marriott City Center  
\$30 Single and \$36 Double or Twin at the Holiday Inn Downtown



TENTATIVE SYMPOSIA AND REFRESHER COURSES:

- PATTERNS OF DISPERSAL AMONG MAMMALS AND THEIR EFFECTS ON THE GENETIC STRUCTURE OF POPULATIONS
- EVOLUTION AND DISTRIBUTION OF SOME BRAIN AND PITUITARY HORMONES
- PHYLOGENETIC ORIGINS OF HUMORAL IMMUNE MEDIATORS
- CARDIOVASCULAR ADAPTATION IN REPTILES
- CELL-CELL INTERACTIONS AND THE CELL SURFACE IN NEURAL RETINA DEVELOPMENT
- TERRITORIALITY, RECENT THEORETICAL ADVANCES, TESTS OF MODELS, AND CASE STUDIES
- CHARACTER WEIGHTING, CLADISTICS, AND CLASSIFICATION
- THE BIOLOGY AND EVOLUTION OF LUNGFISHES
- NATURALISTS AND NATURAL HISTORY INSTITUTIONS OF THE AMERICAN WEST
- PHOTOPERIODISM IN THE MARINE ENVIRONMENT
- SCIENCE AS A WAY OF KNOWING - GENETICS
- REFRESHER COURSE ON LESSER-KNOWN CRUSTACEA
- REFRESHER COURSE ON BIOLOGY OF THE LESSER-KNOWN INVERTEBRATES

**MEMBERSHIP DIRECTORY:** We hope to publish a directory of members in 1984 which will identify research discipline and include telephone numbers. Please fill out the form on the bottom of this page of this newsletter, and send it to the Business Office.

CRUSTACEAN SOCIETY  
MEMBERSHIP DIRECTORY

Name \_\_\_\_\_

Institutional Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Phone ( ) \_\_\_\_\_

Research Discipline \_\_\_\_\_

Taxon Speciality \_\_\_\_\_

Check here if this is a new address.

Mail this to the Business Office.

## The Crustacean Society

# Special Membership Benefit BOOK DISCOUNTS UP TO 30%

Unique among scientific organizations, The Crustacean Society offers up to 25% discounts to its members on prepaid orders on a wide range of books and serials. Get the books you want from any of a number of publishers with just ONE order form.

And Now for your convenience, you can use your VISA or MASTER CHARGE and avoid the hassles of check writing or currency conversions.

THE MYTH OF SCIENCE; OR, THE FANTASY OF TRUTH

(Vantage, 1979)

by Frederick R. Schram

A review of the scientific method and the role of paradigms in organizing scientific knowledge, an historical overview of cases when personality or circumstance have interfered with the proper function of science, and a presentation of the modern politics of science.

A REVISION OF THE AUSTRALIAN CLADOCERA

(Australian Museum, 1983)

by N. N. Smirnov & B. V. Timms

Records of the Australian Museum Supplement 1, a review of the entire Australian fauna with keys and comparisons to the world cladoceran fauna.

CRAYFISHES OF MEXICO

(Balkema Publ., 1983)

by Alejandro Villalobos

A translation by Horton Hobbs Jr. of a classic work in Spanish which includes detailed descriptions and excellent illustrations of the middle American crayfish with analysis of their relationships and biogeographic distributions.

THE FAMILIES AND GENERA OF MARINE GAMMARIDEAN AMPHIPODA (Smithsonian, 1982)

by J. L. Barnard

A reprint edition of this classic handbook, and out of print for some years. Originally issued in 1969 as the U. S. National Museum Bulletin 271.

THE BIOLOGY OF CRUSTACEA (Academic Press)

Editor-in-Chief Dorothy E. Bliss

A comprehensive publication which should become a standard reference in the field, incorporating contributions by a distinguished group of international scientists writing on special aspects of modern crustacean research.

VOL. 1-SYSTEMATICS, FOSSIL RECORD & BIOGEOGRAPHY (L.G. Abele, ed.)  
Crustacean classification, origins, fossil record, evolution controversies, and biogeography.

VOL. 2-EMBRYOLOGY, MORPHOLOGY & GENETICS (L.G. Abele, ed.)  
Early embryology, larval diversity, genetics, growth, and functional morphology.

VOL. 3-NEUROBIOLOGY: STRUCTURE AND FUNCTION (H.L. Atwood & D.C. Sandeman, eds)  
Central nervous system, neuromuscular systems, neurotransmission, hormones, development, photo-, chemo-, thermo-, and mechanoreception.

VOL. 4-NEURAL INTEGRATION AND BEHAVIOR (D.C. Sandeman & H.L. Atwood, eds.)  
Light reception, posture and locomotory control, autonomy, neuron systems, behaviors and their control.

VOL. 5-INTERNAL ANATOMY AND PHYSIOLOGICAL REGULATION (L.H. Mantel, ed.)  
Internal anatomy, osmotic regulation, nitrogen metabolism, digestion, respiration, acid-base balance.

VOL. 6-PATHOBIOLOGY (A.J. Provenzano, ed.)  
Diseases caused by viruses, rickettsiae, bacteria, fungi, protozoans; disease response; symbionts; crustaceans as parasites.

VOL. 7-BEHAVIOR AND ECOLOGY (F.J. Vernberg & W.B. Vernberg, eds.)  
Communication, coordination of movements, symbiosis, larvology, and populations & communities.

VOL. 8-ENVIRONMENTAL ADAPTATIONS (F.J. Vernberg & W.B. Vernberg, eds.)  
Ventilation and oxygen transport, feeding, reproduction, adaptations to terrestrial and freshwater habitats.

SHRIMPS, LOBSTERS & CRABS (New Century Publ., 1982)

by Dorothy E. Bliss

A concise, easy-to-read survey of the decapods and their biology.

KEY TO SHRIMP AND LOBSTERS (Balkema Publ., 1983)

by R. N. Burukovskii

A translation by B. R. Sharma of this classic Russian work, presenting keys to the important commercial groups of decapods, outlining their morphology, and surveying important economic aspects of their biology.

CRUSTACEAN ISSUES (Balkema Publ.)

General editor Frederick R. Schram

VOL. 1-CRUSTACEAN PHYLOGENY (F.R. Schram, ed.)  
An overview of current views about phylogeny within the crustaceans, with some concerted effort to present opposing views on controversial issues.

CRUSTACEANA

(E. J. Brill)

Backissues of most volumes from #1 (1960) to #43 (1982).

CRUSTACEANA SUPPLEMENTS

(E. J. Brill)

An important series appended to the journal presenting collected papers surveying various crustacean groups.

- 1- STUDIES ON COPEPODA (1968)
- 2- STUDIES ON DECAPOD LARVAL DEVELOPMENT (1968)
- 3- STUDIES ON PERACARIDA (1972)
- 4- STUDIES ON GAMMARIDEA I (1977) The proceedings of the 3rd Int. Conf. on Gammarus & Niphargus in 1975.
- 5- STUDIES ON DECAPODA (1979)
- 6- STUDIES ON GAMMARIDEA II (1980) The proceedings of the 4th Int. Conf. on Gammarus & Niphargus in 1979.

ARTHROPOD PHYLOGENY

(Van Nostrand Reinhold, 1977)

edited by S. Gupta

An effective compendium of papers contrasting various views of the evolution of arthropods, both monophyletic and polyphyletic, and with overviews of the various lines of evidence available.

POLLUTION ECOLOGY OF FRESHWATER INVERTEBRATES  
POLLUTION ECOLOGY OF ESTUARINE INVERTEBRATES

(Academic Press, 1982)

by C. W. Hart

A pair volumes with analyses of the parameters and factors that effect the invertebrate communities in freshwater and estuarine habitats.

ORIGIN OF MAJOR INVERTEBRATE GROUPS

(Academic Press, 1978)

edited by M. R. House

The proceedings of a Systematic Association symposium in which authorities on various groups present reviews of the current state of understanding of their groups evolution; includes a discussion by the symposium members.

BIOLOGY AND EVOLUTION OF CRUSTACEA

(Australian Museum, 1983)

edited by James Lowry

Australian Museum Memoir 18, with many of the papers presented at the 1980 conference of the same name in Sydney. Includes papers dealing with evolution and various important aspects of crustacean biology.

REVISION OF THE BALANOMORPH BARNACLES

(San Diego Museum, 1976)

by William A. Newman & Arnold Ross

San Diego Society of Natural History Memoir 9, with a review of all known taxa as of 1976 and an analysis of their evolutionary relationships.

STUDIES IN ADAPTATION: THE BEHAVIOR OF HIGHER CRUSTACEA

(John Wiley, 1983)

by Rebach & Dunham

An evolutionary overview of Malacostracan behavior.





**THE CRUSTACEAN SOCIETY**

*c/o L.G. Abele*

*Dept. Biol. Sci.*

*Florida State University*

*Tallahassee, FL 32306*

NONPROFIT ORGANIZATION  
U.S. POSTAGE  
PAID  
TALLAHASSEE, FL.  
PERMIT NO. 55

DENTON BELK  
840 E. MULBERRY  
SAN ANTONIO, TX 78222