



THE ECDYSIAST

Newsletter of the Crustacean Society

VOLUME 2 NUMBER 2

JULY 1983

DECEMBER 1983 MEETING: The following society events should be of interest to those of you planning to be in and around the City of Brotherly Love in December:

Executive Committee Meeting: 8:00-9:00 p.m., Monday, 26 December
Crustacean Club Meeting 9:00-10:00 p.m., Tuesday, 27 December
Crustacean Society Business Meeting 2:00-2:30 p.m., Wednesday,
28 December

SOPCHOPPY PARTY 9:30-11:00 p.m., Thursday, 29 December

The Biogeography of Crustacea Symposium is scheduled for two sessions, Tuesday, 27 December, morning and afternoon.

CRUSTACEAN BIOGEOGRAPHERS AWAKE!

A Symposium on the BIOGEOGRAPHY OF THE CRUSTACEA will be convened in Philadelphia at the annual ASZ meeting. In addition to the already-scheduled symposium papers, the symposium organizers (Bob Gore and Ken Heck) have received inquiries from other interested persons (primarily graduate students) who wondered if a contributed paper session was possible. If you are interested in such a session, please notify Dr. Jan Pechenak, Program Officer, ASZ, and either Dr. Robert H. Gore or Kenneth L. Heck, Academy of Natural Sciences, Philadelphia. If sufficient interest is generated, it may be possible to incorporate a contiguous session with the main Symposium.

As of this writing, no information on time of the Frontiers of Crustacean Endocrinology Symposium was available.

REMINDER: Abstract Deadline for ASZ meeting in Philadelphia is 26 August 1983. See page 7 for the coupon you may use to obtain more information from ASZ.

Addresses:

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

BOOK DISCOUNTS:

The Crustacean Society offers members or subscribers to the Journal discount on the following selected books. Interested members should send a pre-paid order, checks payable to the Crustacean Society, to the Business Office. These purchases are tax-deductible.

From McGraw-Hill: SYNOPSIS AND CLASSIFICATION OF LIVING ORGANISMS, Sybil P. Parker, Editor in Chief

Now biologists have a single reference which classifies and describes all living things - including viruses, here in a Linnean classification for the first time - from kingdom down to family level. Contributed by 174 of the world's leading taxonomists, its 8,300 articles provide concise summaries of the exact characteristics, life cycle, ecology, and geographic distribution of each group of organisms, as well as examples of representative species. Much of its information has never been published before, or has been confined previously to foreign or obscure journals. Additional essays introduce novices to the nomenclature and principles of classification, while up-to-the-minute references after most articles offer an excellent guide to the specialized literature on every taxon. Price to Members: \$112.13

From A. A. Balkema:

CRUSTACEAN ISSUES 1: CRUSTACEAN PHYLOGENY, edited by Frederick R. Schram. Publication date: March 1983

1983, 25x18 cm, c.350 pp., 17 photos, 82 figs., tables. Cloth, \$35.00 less 20%=\$28.00

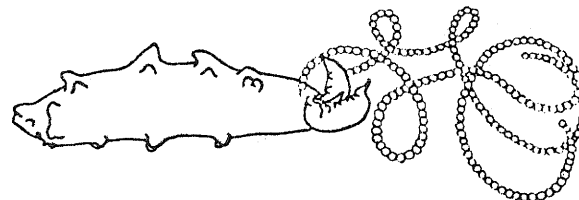
CRUSTACEAN ISSUES 2: CRUSTACEAN GROWTH, edited by Adrian Wenner

1984, 24x18 cm, c.350 pp., photos, figs., tables. Cloth, \$35.00 less 20%=\$28.00

From Academic Press: THE BIOLOGY OF CRUSTACEA

VOLUME 1: SYSTEMATICS, THE FOSSIL RECORD, AND BIOGEOGRAPHY, edited by Lawrence G. Abele. Price to members: \$28.90

CONTENTS: Thomas E. Bowman and Lawrence G. Abele, Classification of the Recent Crustacea. Patsy A. McLaughlin, George T. Taylor, and Martin Tracey, Systematic Methods in Research. John L. Cisne, Origin of the Crustacea. Frederick L. Schram, The Fossil Record and Evolution of the Crustacea. Robert L. Hessler, Brian M. Marcotte, William A. Newman, and Rosalie F. Maddocks, Evolution within the Crustacea. Lawrence G. Abele, Biogeography of the Crustacea. Each chapter contains references. Systematic Index. Subject Index.



VOLUME 2: EMBRYOLOGY, MORPHOLOGY, AND GENETICS, edited by Lawrence G. Abele, 1982, 432 pp., price to members: \$37.15

CONTENTS: Donald T. Anderson, Embryology, Donald I. Williamson, Larval Morphology and Diversity. Richard Hartnoll, Growth. Patsy A. McLaughlin, Functional Morphology of Crustacean Appendages. T. Ginsburger-Vogel and H. Charniaux-Cotton, Sex Determination. Dennis Hedgecock, Martin Tracey, and Keith Nelson, Genetics. Each chapter contains references. Systematic Index. Subject Index.

VOLUME 3: NEUROBIOLOGY: STRUCTURE AND FUNCTION, edited by H. L. Atwood & D. C. Sandeman

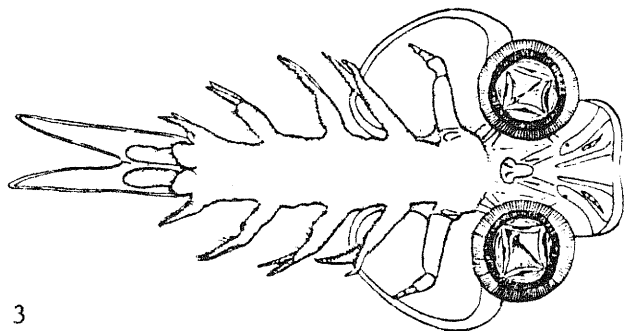
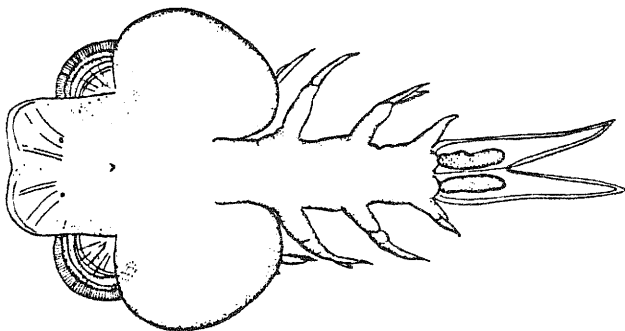
CONTENTS: D. C. Sandeman, Organization of the Central Nervous System. C. K. Govind and H. L. Atwood, Organization of Neuromuscular Systems. H. L. Atwood, Synapses and Neurotransmitters. W. D. Chapple, Muscle. C. K. Govind, Development of Nerve, Muscle, and Synapse. I. Cooke and R. E. Sullivan, Hormones and Neurosecretion. S. R. Shaw and S. Stowe, Photoreception. B. W. Ache, Chemoreception and Thermoreception. B. M. H. Bush and M. Laverack, Mechanoreception. Each chapter contains references. Systematic Index. Subject Index.

VOLUME 4: NEURAL INTEGRATION AND BEHAVIOR, edited by D. C. Sandeman & H. L. Atwood, 1982, 352 pp., price to members: \$27.00

CONTENTS: C. A. G. Wiersma, J. Roach, and R. Glantz, Neural Integration in the Optic System. C. H. Page, Control of Posture. W. H. Evoy and J. Ayers, Locomotion and Control of Limb Movements. A. McVean, Autotomy. D. Neil, Compensatory Eye Movements. W. Wales, Control of Mouth Parts and Gut. T. J. Wiens, Small Systems of Neurons: Control of Rhythmic and Reflex Activities. J. Wine and F. Krasne, The Cellular Organization of Crayfish Escape Behavior. P. Fraser, Viers on the Nervous Control of Complex Behavior. Each chapter contains references. Systematic Index. Subject Index.

VOLUME 5: INTERNAL ANATOMY AND PHYSIOLOGICAL REGULATION, edited by Linda H. Mantel, price to members: \$42.75

CONTENTS: Patsy A. McLaughlin, Internal Anatomy, Linda H. Mantel and Linda Farmer, Osmotic and Ionic Regulation. David L. Claybrook, Nitrogen Metabolism. William Dall and David J. W. Moriarty, Functional Aspects of Nutrition and Digestion. Ernest S. Chang and John D. O'Connor, Metabolism and Transport of Carbohydrates and Lipids. B. R. McMahon and J. L. Wilkens, Ventilation, Perfusion, and Oxygen Uptake. Charlotte P. Mangum, Oxygen Transport in the Blood. J. P. Truchot, Regulation of Acid-Base Balance. Each chapter contains references. Systematic Index. Subject Index.



NEW BOOKS AUTHORED BY MEMBERS

Fitzpatrick, J. F., Jr., 1983. How To Know the Freshwater Crustacea. The Pictured Key Nature Series. William C. Brown, Co., Dubuque, Iowa. ISBN 0-697-04783-0

Walls, J. G. (ed) 1982. Encyclopedia of Marine Invertebrates. T. F. H. Publishers, Neptune, NJ

Barnard, J. and M. Barnard, 1983. Freshwater Amphipoda of the World: Evolutionary Patterns. II, Handbook and Bibliography. In two volumes. Hayfield Associates, xix + 830 pages, 50 figures, 7 graphs, 98 maps, 12 tables.

Price: \$15 USA currency in bank draught or money order sent to J. L. Barnard, Hayfield Associates, 7038 Roxann Rd., Alexandria, VA 22310, USA; postage free.

This treatise contains a fully developed generic handbook to the world Gammarida with phyletic and geographic keys, nomenclature and diagnoses, all major characters and lines of diversity are illustrated. Each genus has a full list of species, major references, and subspecies. A newly invented system of geographic reporting is given so as to describe the distribution of every species. Maps of most species distribution outside of Baikal and the PontoCaspian taxa and nomenclatural indexes for Baikal. A bibliography of 1735 citations covers the taxonomy, systematics, biogeography, and evolution of freshwater amphipods since 1758.

Hart, J. F. L., 1982. Crabs and Their Relatives of British Columbia, 267 pp., 102 figs., 12 color plates, one map.

This book deals with some 95 species of the so-called, crawling crabs -- the Reptantia -- found in the marine waters of British Columbia. Each species is illustrated with line drawings by the author (25 are also shown with full-color paintings -- again by the author) and treated under the headings of description, color, habitat, size, range, and distribution in British Columbia. There are also chapters on growth, reproduction, larval development, ecology, commensalism, parasites, collecting and economic importance. While limited to the reptant decapod crustacea along the Pacific Coast from northern California to Alaska. Also, while technical, the book will be useful to serious, amateur naturalists seeking to expand their knowledge of these fascinating ceatures.

The book contains 267 pages, 102 figures, 12 color plates and one map. Cost: \$5.00. Please make checks or money orders payable to MINISTER OF FINANCE. Address orders to:

PUBLICATIONS

British Columbia Provincial Museum
675 Belleville Street
Canada V8V 1X4

NEW BOOKS (CONTINUED):

Grey, D. L., W. Dall and A. Baker, 1983. A Guide to the Australian Penaeid Prawns. 140 pp. Northern Terr. Gov't. Printing Office, Darwin, N. T. Australia. Color plates.

Cost: \$12.95 post free in Australia from the following address:

Prawn Book Sales
Fisheries Division
Department of Primary Production
P.O. Box 4160
Darwin, N. T. 5794

Checks or money orders should be made payable to the "Receiver of Territory Monies".

Overseas orders should include A \$6.00 for airmail postage and packing charges or \$ 2.00 for surface mail.

BEST STUDENT PAPER AWARD -- LOUISVILLE:

The winner of this award is Mr. Allen Shanks of Scripps Institution of Oceanography. Allen receives a free subscription to the Journal of Crustacean Biology for 1983 and a certificate from the Awards Committee, chaired by Denton Belk. Congratulations Allen and please accept our apologies for the late announcement of the award.

ASCOTHORACIDANS TAKE HEART!

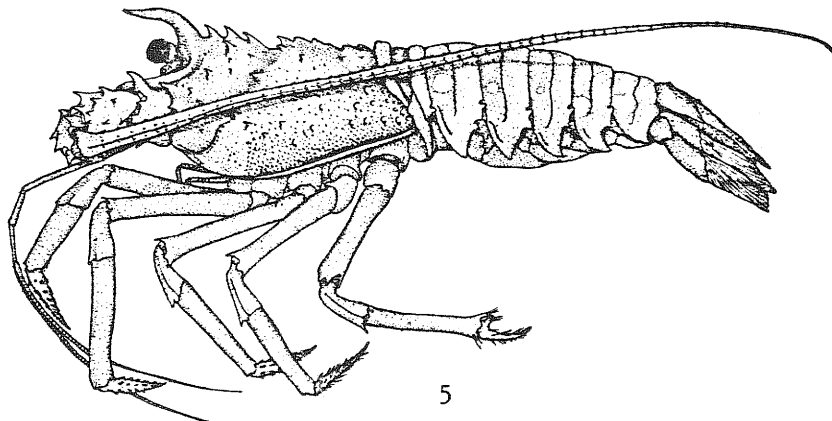
For those of you who have written Mark Grygier about the monograph:

Vagin, V. L., 1976. Meshkogrudye Raki [Ascothoracida], Kazan University Press, Kazan, USSR, 141 pp.

There are two accessible copies in the U.S.:

1. U. S. National Museum Library
2. Scripps Institution of Oceanography QL 444 C527 V3.

The monograph contains a nearly complete bibliography of 140 years of Vagin's work, most of which escaped the attention by Zoological Record.



CHANGE OF ADDRESSES: These are costly to the Society so please avoid unnecessary change of address. Many of the changes we received last year do not involve institutional changes. Therefore, we ask you to use your institutional address for Society mailings and save us some expense.

T-SHIRT COLLECTORS: The Business Office would like to close out its inventory of the society-logo shirts. They will cost you \$6, and are still available in tan or blue, in adult S,M,L,XL. The Office would also like someone out there to volunteer to handle future design and sales of Society paraphernalia. Any takers?

The NORTH AMERICAN BENTHOLOGICAL SOCIETY is an international scientific organization whose purpose is to promote better understanding of the biotic communities of lake and stream bottoms and their role in aquatic ecosystems by providing media for disseminating new investigation results, new interpretations, and other benthological information to aquatic biologists and to the scientific community at large.

Membership is open to anyone interested in the Society's purpose regardless of residence. Because the benthic community is affected by physicochemical and biotic factors of the overlying water, NABS attracts members with interest in many aspects of aquatic ecosystems. At present, most of the 1,200 or more members are from the United States and Canada, with smaller representations from over 10 other nations. Many members are aquatic biologists with special research interests in aquatic algae, aquatic vascular plants, zooplankton, phytoplankton, mollusks, crustaceans, aquatic insects, fishes, general benthology, hydrochemistry, hydrology, sedimentology, etc. who are employed by state and federal research and environmental control agencies, environmental consulting firms, utility and other industrial firms, and as teachers and researchers with colleges and universities.

NEWSLETTERS:

In Volume 2, No. 1 of The Ecdysiast, I listed newsletters which may be of interest to the Crustacean Society membership. Following are one addition and changes.

New Editor of "World Mariculture Newsletter":

Frank S. Taylor
Mar Res Res Inst.
P.O. Box 12559
Charleston, SC 29412

New Editor at "Animal Behavior Society Newsletter":

Anna E. Ross
Dept. of Zoology
Clemson University
Clemson, SC 29631

Contributed Paper Sessions

Poster and Oral Presentations
ABSTRACT DEADLINE: August 26, 1983

JOB PLACEMENT SERVICE

TRAVEL GRANTS AND COMPLIMENTARY
HOTEL ROOMS FOR STUDENTS

Housing

\$28 single, \$34 double/twin at the Philadelphia
Centre Hotel and \$40 single, \$45 double/twin,
and \$55 triple rooms at the Franklin Plaza Hotel.

Information Coupon

Please send the following material:

- ___ Application for student travel grant/
complimentary housing
- ___ Information and application for graduate
student Best Paper Awards
- ___ Details of Spouse/Guest Program
- ___ Abstract forms
- ___ Housing and registration forms (available in
October)
- ___ Membership information and application for
the following Society: _____

Name and Address: _____

Mail to: Mary Wiley, American Society of
Zoologists, Box 2739 California Lutheran College,
Thousand Oaks, CA 91360 or call 805 492-3585
for more details of this meeting.

MEETING OF

AMERICAN SOCIETY OF ZOOLOGISTS

AMERICAN MICROSCOPICAL SOCIETY

ANIMAL BEHAVIOR SOCIETY

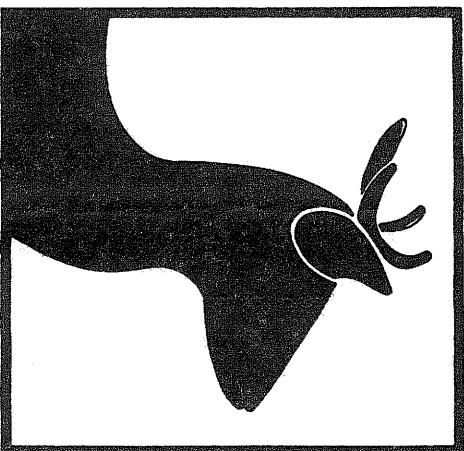
BIOLOGICAL SOCIETY OF WASHINGTON

CRUSTACEAN SOCIETY

INTERNATIONAL ASSOCIATION OF

ASTACOLOGY

PHILADELPHIA 1983



FRANKLIN PLAZA HOTEL &
PHILADELPHIA CENTRE HOTEL

Tuesday - Friday
December 27 - 30

Meeting Hosted by Temple University
Robert L. Searls - W. Wayne Moss
Co-Chairpersons of Local Committee

Schedule of Special Programs/ Socials

Tuesday, December 27

- Continental Breakfast with Exhibitors
- Exhibits
- Spouse/Guest Coffee Hour, Philadelphia City
Tour
- The Crustacean Society (TCS) Social
- ASZ Education Committee Film Program on
Evolutionary Biology
- ASZ Graduate Student/New Member Party

Wednesday, December 28

- Continental Breakfast with Exhibitors
- Exhibits
- Spouse/Guest Brandywine Valley Tour
- ABS/Div. of Animal Behavior/Div. of Ecology,
ASZ, Luncheon
- Biological Society of Washington Business
Meeting and Social
- AMS Social
- TCS Dinner
- ASZ Education Committee Evening
Symposium, Science as a Way of Knowing -
Evolutionary Biology

Thursday, December 29

- Exhibits
- ASZ Education Committee Symposium
(continued), morning session on Science as a
Way of Knowing - Evolutionary Biology
- AMS Brunch and Past-Presidential Address
- Business Meetings, ASZ, AMS and TCS
- ASZ Dinner and Past-Presidential Address

Friday, December 30

- End of Meeting Party

MEETINGS:

<u>When</u>	<u>What, Where</u>	<u>Contact</u>
7-8 July 83	BIOLOGY OF ISOPODA Evolution and Zoogeography Structure and Physiology Behavior and Sociobiology Population & Community Biology	D. M. Holdich Dept. of Zoology University of Nottingham Nottingham NG7 2RD England
10-14 July 83	NATIONAL AQUACULTURE CONFERENCE St. Andrews, New Brunswick, Canada	Donald Wilson NAC Coordinator 275 Slater St. Ottawa, Ontario Canada K1P 5H9 (613) 238-2296
14-20 Aug. 83	18th EUROPEAN MAR BIOL SYMP Stress on Marine Organisms Marine Biology of Polar Regions University of Oslo, Norway	J. S. Gray Inst. Mar. Biol. Limnol University of Oslo P. B. 1064 Blindern, Oslo 3 Norway
22-26 Oct. 83	7th INT. ESTUARINE RES CONF. The Estuary as a Filter Virginia Beach, VA	J. R. Schubel SUNY Stony Brook Mar. Sci. Res. Center Stony Brook, NY 11794 (516) 751-5428
27-30 Dec. 83	BIOGEOGRAPHY OF CRUSTACEA (in honor of Paul Illg) FRONTIERS IN CRUSTACEAN ENDOCRINOLOGY (in honor of Dorothy Bliss and Louis Kleinholz) HYDROTHERMAL VENTS OF THE EASTERN PACIFIC American Society of Zoologists Philadelphia, PA (See flyer in this newsletter.)	R. Gore/K. Heck Academy of Natural Sciences 19th and Parkway Philadelphia, PA 19103 ASZ Business Office Box 2739 California Lutheran College Thousand Oaks, CA 91360
22 July-4 Aug. 83	2nd INTERNATIONAL SYMPOSIUM INDO-PACIFIC TROPICAL MARINE BIOLOGY Guam and Ponape	D. H. Montgomery Biological Science Dept. California Polytechnic State University San Luis Obispo, CA 93407 (805) 546-2446
13-17 Aug. 84	CONFERENCE ON COPEPODA Biogeography Behavioral Ecology Growth and Culture Morphology Phylogeny	Ian Sutherland Nat'l. Museum of Natural Science Invert. Zool. Division Ottawa, Ontario Canada K1A 0M8

North American Benthological Society

(PLEASE PRINT)

Name _____

Address _____

City _____ State/Province _____ Zip _____

Telephone Number _____

Professional Interests (50 characters or fewer) _____

Membership Status (CHECK ONE)

Check if: _____

Regular (US \$10) _____

New Member _____

Student (US \$5) _____ at (institution) _____

New Address _____

Signature of Advisor _____

New Name _____

Dues Paid _____ For Year _____ Check No. _____

Treasurer _____ Date _____

Complete this form and return with dues to Elizabeth B. Rodgers, TVA Browns Ferry Biothermal Station, Box 2000, Decatur, Alabama 35602 U.S.A. Cancelled check will be your receipt.

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 Specialty _____

_____ Check here if this is a new address.

Mail this to the Business Office.

THE CRUSTACEAN SOCIETY

c/o L.G. Abele

Dept. Biol. Sci.

Florida State University

Tallahassee, FL 32306

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