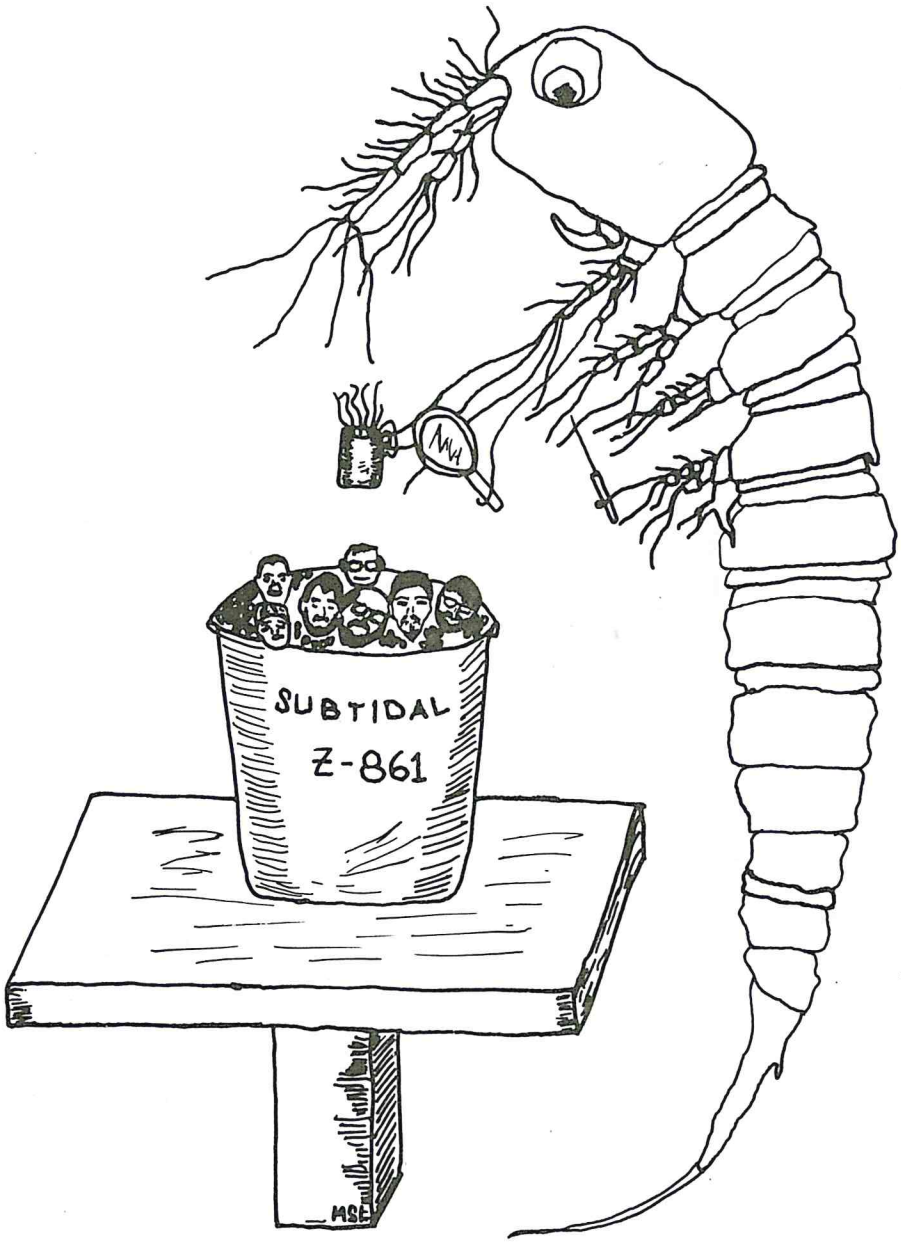
PSAMMONALIA

NEWSLETTER OF THE ASSOCIATION OF MEIOBENTHOLOGISTS



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P S A M M O N A L I A

Newsletter of the Association of Meiobenthologists

Number 24 May 1974

Editor: Bruce C. COULL, Belle W. Baruch Institute
for Marine Biology and Coastal Research,
University of South Carolina, Columbia,
South Carolina 29208 USA

Cover by M. Susan Ivester, University of South Carolina.

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Treasurer: John H. TIETJEN, Department of Biology, City College of New York, 138th St. at Convent Ave., New York, N. Y. 10031, U.S.A.

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E D I T O R I A L

The response to our plea for dues has been favorable, however the Association is still not financially stable. We presently have enough money to produce 2 more issues of PSAMMONALIA but as of now cannot guarantee any 1975 issues. If you have not paid your dues we urgently request that you send them to John Tietjen as soon as possible. For North American (U.S. and Canada) members who have not yet paid, this issue of PSAMMONALIA is your last unless your dues are paid. Unpaid members outside of North America will receive this issue and the next issue (No. 25) but if membership dues remain unpaid after issue 25, membership in the Association will be cancelled. This ultimatum, of course, excludes those members in countries unable to export currency who receive PSAMMONALIA gratis.

In keeping with the policy of PSAMMONALIA to include Bibliographies of specific taxa, please note the excellent bibliography on interstitial ciliates by Eike Hartwig which follows the section on the recent literature.

The Executive Committee has voted to ask the membership to approve the following amendment to the constitution, that Article 1 (Name) be amended to read "International Association of Meiobenthologists." Article 1 presently reads "Association of Meiobenthologists" and the Executive Committee feels it is appropriate to change the name in that we are truly an international association and the proposed new name more properly reflects the Association's nature. Any proposed constitutional amendment requires a 2/3 majority of the voting members in good standing so please mark your vote on the ballot below and return to me as soon as possible. Thank you!

Bruce C. Coull

Bruce C. Coull

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BALLOT

_____ Yes. I favor the proposed amendment to change the Association's name to "International Association of Meiobenthologists."

_____ No. I am against changing the Association's name and prefer to leave it as it is.

_____

(Your Name)

RETURN TO: B. C. Coull, Baruch Institute, University of South Carolina, Columbia South Carolina 29208 USA by 1 September 1974.

FINANCIAL REPORT

Credits

Balance on hand (prior to PSAMMONALIA #23)	$163.86	
Dues and Contributions received (1/24-4/19/74)	438.00	
TOTAL		$601.86

Debits

Cost to produce PSAMMONALIA #23	$119.94	
Bank Service Charge	1.80	
TOTAL		$121.74

TOTAL BALANCE on hand 19 April 1974 $480.12

John H. Tietjen
TREASURER

NEW MEMBERS

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Virginia R. Ferris
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(Systematics-ecology of Nematoda)

Luisa Fiaschi
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WEST GERMANY
(Systematics & ecology of enchytraeids and other interstitial annelids from soil & fresh water)

Tatsunori Itô
Zoological Institute
Faculty of Science
Hokkaido University
Sapporo, JAPAN
(Harpacticoid copepods)

New Members (Cont.)

Robert E. Mesick
Department of Biological Sciences
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Hayward, California 94542 USA
(Distribution of littoral Enchytraeidae as a function of physical and physiological factors)

Musee Oceanographique (Monaco)
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Wolfgang Wieser
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Russel L. Zimmer
Santa Catalina Marine Biological Lab.
P. O. Box 398
Avalon, California 90704 USA
(Lophophorate reproduction and morphology)

NEWS FROM THE MEMBERS

G. ARLT, Universität Rostock: Since 1965 I have been working on faunistic-ecological and taxonomic problems of the meiofauna in coastal and brackish waters. I have investigated the annual fluctuations and the quantitative and qualitative composition of the meiofauna in different sediments and water depths as well as horizontal and vertical micro-distribution. I am interested in using meiofauna as indicator organisms in polluted and unpolluted areas. The harpacticoids are my special taxonomic group and at present I am investigating the meiofauna in lagoons of the Baltic coast.

P. R. O. BARNETT and B. L. S. HARDY, Oban, Scotland: A new multiple core sampler has been developed, incorporating principles described at the 2nd International Meiofauna Conference in York. This corer has been used successfully in depths of up to 150 m in the Scottish West Coast sea lochs and is now being modified as a result of deep sea trials. Cores obtained from a depth of 2880 m in the Rockall Trough indicate a sparse harpacticoid fauna. Inshore harpacticoid studies are continuing, with an investigation of sandy and muddy shores in the neighborhood of Oban. We hope to use some of the commoner intertidal species for eco-physiolocal studies later this year. Preliminary observations suggest that Huntemannia jadensis and Heterolaophonte minuta are suitable species for experimental work and it is hoped that further experiments with Asellopsis intermedia will be possible.

D. Darom (Masry), Hebrew University: The Gulf of Elat represents a unique tropical marine environment for interstitial studies due, and the interstitial fauna are being studied by: conducting a systematic survey of the interstitial fauna inhabiting the sandy beaches of the Gulf of Elat with special emphasis on the harpacticoids, determining the main ecological characteristics of marine sandy beaches along the Gulf of Elat, while following daily and yearly changes in two chosen beaches, trying to connect the microdistribution of interstitial fauna with the fluctuations of physical and chemical ecological factors in the sandy habitat, and by comparing ecological findings and microdistribution of the fauna with tolerance experiments conducted in the laboratory on chosen interstitial organisms.

O. GIERE, Universität Hamburg: As a member of the oligochaete research group at the Zoological Institute & Museum Hamburg I am working on marine enchytraeids. These worms are represented by few marine species but occur in considerable density in the upper eulittoral of exposed and sheltered shores. Despite their obvious abundance, oligochaetes have been widely neglected in meiofauna investigations, possibly due to difficulties in identification.

My studies aim at three topics: (1) Ecology: microdistribution, effects of abiotic factors(in situ recordings of characteristics parameters with electrodes, e.g. salinity, temperature, redox potential, O_2 diffusion and analyses of grain size, pore volume and water content) and biotic effects, mainly the trophic role of bacteria, protozoa, diatoms, parasites in enchytraeids by feeding experiments with different food items; (2) Productive role of oligochaetes in marine shores by measuring abundance, biomass, biovolume of main species; and (3) Faunistic and systematic studies of species composition from various North and Baltic Sea shores to expand the scarce basic zoological knowledge on enchytraeids, urgently needed for further ecological investigations.

J. H. TIETJEN, City College of New York: John Lee and I are continuing our attempts to isolate into laboratory culture significant representatives of the microflora-microfauna-meiofauna assemblages of marine macrophytes to study the nutrition, feeding behavior and physiological ecology of nematodes, ciliates, foraminifera and other animals occurring in the aufwuchs. We are also collaborating with Ken Tenore of the Woods Hole Oceanographic Institution in a study of the interactions between meiofauna

(cont.)

News from the Members (cont.)

and macrofauna in their utilization of detritus as a common food source. Along these lines Christine Redman is initiating a study to examine, both in the laboratory and the field, the outcome of competition between deposit-feeding nematodes and polychaetes for a common resource, food.

Underway for about a year have been 2 studies in impacted areas, Long Island Sound and the inner apex of New York Bight, the latter an area which receives tremendous amounts of dredge spoil and sewage sludge. In both areas the spatial and temporal distributions of the meiofauna are being studied, with special emphasis being placed on the nematodes. One aspect of this study will be a comparison of the nematode species composition in impacted and unimpacted sediments of similar granulometry. Both studies will hopefully run for several years.

Frank Cantelmo will be following the seasonal changes in abundance and species composition of selected meio- and macrofauna in the aerobic and anaerobic zones of a shallow subtidal sediment. He will follow seasonal changes in the fauna in relation to seasonal changes in the reduced zone. Laboratory experiments will be conducted to study the effects of various O_2 and H_2S levels on the survival of the fauna inhabiting these zones.

W. WIESER, Universitat Innsbruck: After a long and dry period without marine - let alone meiofauna - biology I have recently become interested again in some problems of meiofaunology. My main interest in this area is the comparative ecophysiology of meiofauna communities living in climatically and geologically different sediments. The most important aspect at the moment seems to be the effects of pO_2, pH and temperature on species living along vertical profiles in sediments, and my feeling is that some fascinating mechanisms of adaptation are waiting to be discovered in these habitats. Since Austria has no marine station, we decided to start our investigation at the next best place close to the sea - which turned out to be the Bermuda Biological Station. So far we have had no reason to regret our choice.

ANNOUNCEMENTS

Courses:

The Santa Cataline Marine Biological Station announces a summer course THE ECOLOGY OF MARINE MICROORGANISMS to be given July 25-August 28, 1974. The course will include the significance, distribution and activities of the microscopic bacteria, fungi, algae and protozoans in marine ecosystems, with emphasis on environmental relationships and interactions. The course will be coordinated by Dr. Carl Oppenheimer (University of Texas) and guest participants will be Dr. Tom Fenchel (University of Aarhus, Denmark), Dr. Corneilus Sullivan (Scripps Institution of Oceanography), and Dr. William Wiebe (University of Georgia). The intensive graduate level course will carry 5-semester units of credit. Registration is through the University of Southern California which operates the Laboratory in consortium with California Institute of Technology, California State University and College System, Occidental College and the Universities of California at Irvine and Los Angeles.

A prospectus sheet on this course, general information and application materials for the Santa Catalina 1974 summer program are available from: Dr. Russel L. Zimmer, Resident Director, Santa Catalina Marine Biological Laboratory, P. O. Box 398, Avalon, California 90704 (Telephone: (213) 746-6792.

Announcements (cont.)

Meetings:

1st INTERNATIONAL MEETING OF MEIOFAUNA PHYSIOLOGICAL ECOLOGY, 25-29 September, 1974, Arcachon, France. For further information contact:

Dr. Pierre Lasserre
Institut de Biologie Marine
Université de Bordeaux
2 rue du Professeur Joyet,
F-33120 Arcachon, France

9th EUROPEAN SYMPOSIUM ON MARINE BIOLOGY, 2-8 October 1974, Oban, Scotland. Theme: "Biochemistry, physiology, and behaviour of marine organisms in relation to their ecology." For further information contact:

Dr. Harold Barnes
Dunstaffnage Marine Research Laboratory
P. O. Box 3
Oban, Argyll, Scotland

1st INTERNATIONAL SYMPOSIUM ON TARDIGRADA, 17-19 June 1974, Pallanza, Italy. This meeting will serve as a platform for the discussion of problems related to morphology, physiology, ecology and systematics of Tardigrada. A preliminary application for participation should be sent immediately to the Local Organizing Committee:

Prof. Dr. Livia Tonolli
Instituto Italiano di Idrobiologia
28048 Pallanza (Novara), Italy

Literature:

A new series "Marine Flora and Fauna of the Northeastern United States" is being published by the National Marine Fisheries Service, National Oceanic and Atmospheric Administration, as "NOAA Technical Report NMFS Circulars" (see Borror 1973, Cook & Brinkhurst 1973, McCloskey 1973 in the recent literature section of this PSAMMONALIA). Manuals are being prepared by systematists from the United States and abroad and will cover all taxa when the series is completed. Each manual consists of a general biology introduction, an illustrated key, an annotated systematic list and a systematic index. The manuals are available from: The Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402, USA. Four manuals have been published to date with prices ranging from $0.30 - $0.65 per manual. All forthcoming manuals related to meiofauna will continue to be listed in PSAMMONALIA's recent literature section.

RECENT LITERATURE

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A Bibliography of the Interstitial Ciliates

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This bibliography is based on the author's records. If there are any additional records not included here, I would be most grateful for details.

Legend regarding contents of papers:

(B) Biology, morphology
(D) Distribution, biogeography, ecology
(G) General and review
(K) Key
(N) References with no species designation
(O) Original description (s)
(S) Systematic, taxonomy

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