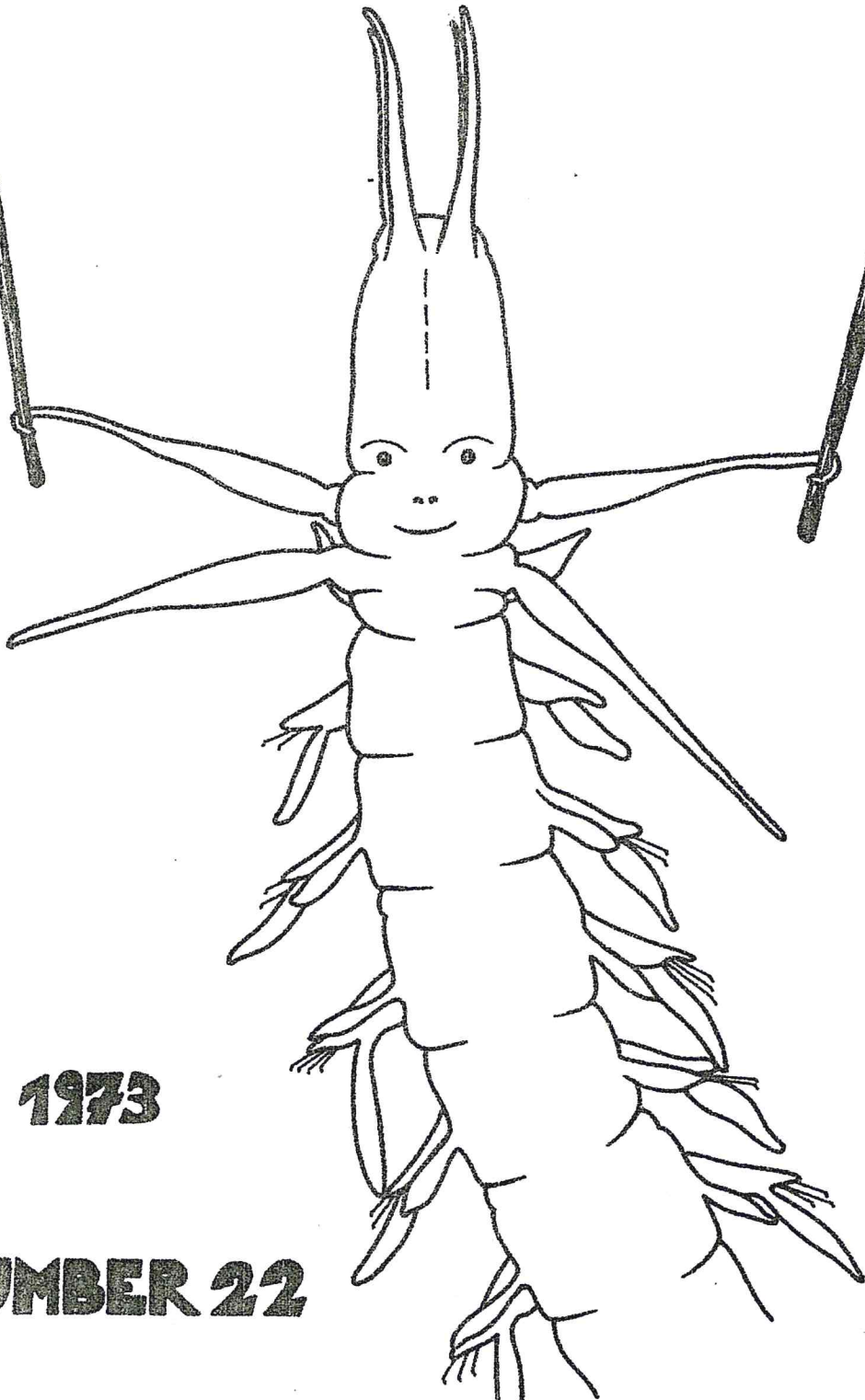


PERAMMONALIA



1973

NUMBER 22

**NEWSLETTER OF THE ASSOCIATION
OF MEIOBENTHOLOGISTS**

P S A M M O N A L I A

Newsletter of the Association of Meiobenthologists

Number 22

December, 1973

Editor: Wilfried WESTHEIDE, II. Zoologisches Institut
der Universität, D-34 Göttingen, Berlinerstr. 28
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E D I T O R I A L

According to the Constitution of the Association of Meiobenthologists I have to pass on the Editorship of Psammonalia - this is the last number coming from Göttingen. It was a pretty interesting job that has given me many valuable personal contacts to many of you, and I am convinced that the newsletter together with the Meiofauna Meeting in York has also established and confirmed the contact between all interested Meiobenthologists. After these past two years I have to thank in particular all of those on the Executive Committee and outside the Committee as well for compiling literature, sending bibliographies, keys, news and helping me to prepare the last seven numbers of Psammonalia.

For the future I only wish that the number of Members who take part actively in contributing to the newsletter may increase - and also hopefully, the number of those who pay up the dues.

The new Chairman and Editor is Dr. Coull. He and the newly elected Treasurer Dr. Tietjen are very active persons with many good ideas. I am sure the Association and Psammonalia will be in good hands through them, and so I wish them much success.

To all of you a happy and successful New Year!

Wilfried Westheide
Editor

N E W C O M M I T T E E (1974 - 1975)

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F I N A N C I A L R E P O R T

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Dr. J. Tietjen, Treasurer, should like to ask all members to make their dues payable now to the Association of Meiobenthologists, either in U.S. dollars or in the form of an International Money Order. There will be details in the next issue.

N E W M E M B E R S

Jean Yves BODIOU
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("Biology and ecology of harpacticoid copepods of the Mediterranean.")

Peter C. CATE
I. Zoologisches Institut
Universität Wien
A-1010 Wien
Dr. Karl-Lueger-Ring 1, Austria

("Field of interest: Morphology, ecology, and systematics of the Tanaidacea, Cumacea, and Isopoda, especially in soft bottom communities. I am a participant of the "Adriatic-Mediterranean-Softbottom-Project"(under the direction of Doz. Dr. Luitfried von Salvini-Plawen). My dissertation will deal with the morphology, ecology, and systematics of the Tanaidacea.")

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Port Elizabeth, Republic of South Africa

Derek J. MURISON
Department of Agriculture and Fisheries
for Scotland
Marine Laboratory
P.O. Box No. 101
Victoria Road
Torry, Aberdeen, Scotland

("Interests: Ecology of marine benthos with emphasis on meiofauna. Present work involves collaboration on several projects being carried out in Scottish waters by the Environmental Studies team of our Aberdeen laboratory. A major aspect of these studies concerns the effects of pollutants on the marine benthos and consequences, through the food web, to commercial fish species.")

Noboru NUNOMURA
Osaka Museum of Natural History
Nagai park
Higashi sumiyoshi-ku
Osaka 546, Japan

(" I am on the staff of Osaka Museum of Natural History (Zoology).
I study the benthic fauna, especially small isopod.")

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N E W S F R O M T H E M E M B E R S

G.C. Rao, Calcutta: " Since my communication to the Association of January last, our expedition to the Andaman and Nicobar Island was slightly postponed due to some unexpected difficulties that cropped up in the way. Subsequently, the expedition was actually conducted for 50 days from 4.4.73 to 23.5.73, during which period the weather conditions on these tropical islands were very bad, making movement and task difficult. Hence, I am sorry to report that I could not visit as many new areas as proposed earlier and make a rich collection of the diverse habitats. However, I could make some sand and mud collections of the new areas visited, the results of which are being worked out. A qualitative analysis of these collections has revealed the presence of almost all the groups of animals typical of the habitat. A few groups of soft fauna were examined and sketched in living condition, while others were preserved for subsequent study. Some ecological data on the physico-chemical conditions of the substrata, were also collected during the survey. Further progress and results of the study, will be reported to the Association, when they are complete."

=====

THE LERNER MARINE LABORATORY, a field Station at Bimini, Bahamas, of the American Museum of Natural History wishes to inform the readers of Psammonalia of its first-class scientific facilities and its comfortable living accommodations. All persons interested in this excellent biological station can obtain more information about the Laboratory - a fullcolor brochure, the Laboratory's Newsletter, and individual responses to specific requests - by writing to:

Dr. Jerome G. Rozen, Jr.
Deputy Director for Research
The American Museum of Natural History
79th Street and Central Park West
New York, N.Y. 10024, U.S.A.

INSTITUT UNIVERSITAIRE DE BIOLOGIE MARINE DE BORDEAUX

2 rue du professeur Jolyet 33120 Arcachon, France

.....

FIRST MEETING ON MEIOFAUNA PHYSIOLOGICAL ECOLOGY, ARCAHON 1974

- first announcement -

Dear Colleague,

During recent years, the interest for ecophysiological studies on meiofauna has become increasingly important. There are two major reasons: (1) these studies may yield basic information on original adaptive features acquired at cellular and molecular levels by meiofauna to succeed in different habitats, under different latitudes; (2) the knowledge of physiological and biochemical traits of the species may serve in the determination of energy budgets for different meiobenthic communities and in the solution of the energetic role played by meiofauna in a benthic system.

One of the principal difficulty lies in the very small size of the animals. This feature necessitates some specification with regard to the dimensions of the physiological and biochemical techniques that will be used. Now~~ay~~~~days~~, a number of microscale techniques (many of them were improved by cellular physiologists) are quite applicable to research on meiofauna.

In order to stimulate the exchange of information between investigators, I am in the position to inform you that a working meeting centering around the physiological ecology of meiofauna is planned by our Institute in 1974. In addition it is hoped to have one informal "Table Ronde" dealing with the techniques.

The Meeting will take place in ARCAHON, France, and the exaxt date will be determined later at the convenience of the majority of interested colleagues. I propose 4 days in September or in October 1974. Investigators working on plankton as well as on larval stages of bottom invertebrates are kindly invited to participate to the meeting. This circular is a call for participation and for papers.

In general, the Arcachon Meeting will embrace the following aspects:

I - Physiological and biochemical characteristics of meiofauna species.

Presentation of papers and discussion sessions dealing with the following topics:

- 1 - L.D.50 determination, tolerance and preference experiments
- 2 - Mechanisms of physiological and biochemical adaptations
Metabolic compensations
- 3 - Effects of pollutants on the metabolic systems
- 4 - Metabolism and energy costs of the individuals in a growing, reproducing and resting population of animals
- 5 - Nutrition and energy flow in the benthic ecosystem
- 6 - In situ conditions, factors which command the natural environment

II - "Table Ronde" on material and methods.

- 1 - Measurement of amount of sample (microgram balances, volume-density, diver balance, total nitrogen etc...)
- 2 - Histochemical reactions
- 3 - Autoradiography methods
- 4 - Cartesian diver respirometers and other micromanometric techniques
- 5 - Biochemical essays (high energy compounds, enzymes of energy metabolism, lipids etc...)
- 6 - Nitrogen and organic carbon determinations
- 7 - In situ measurements with microelectrodes (pO_2 , pCO_2 , redox pot., Na^+ , K^+ etc...) and other techniques

You are invited to give a talk approximately 20 minutes on the most recent development of your work. Short presentations might as well be given by young investigators.

I wish your comments and your suggestions, they will be taken into consideration and adapted to the program.

The bay of Arcachon is nicely located on the south Atlantic coast, near Bordeaux, and displays interesting oceanic and estuarine habitats. The third European Marine Biology Symposium was organized in this place in 1968. The registration fee will be 20 francs for faculty and 10 francs for students. This includes banquet, coffee breaks and boat tours on the Bassin d'Arcachon. Special rates at several hotels have been arranged, more information will be given in the second Announcement. Inexpensive meals will be served at the dining hall of the Institut. Living accommodations at very low charge will be reserved for a limited number of young researchers for the purpose of encouraging their attendance.

It would be of great assistance if you could fill in the accompanying form and return it before February 1st., 1974.

Cordially,

Pierre Lasserre

FIRST MEETING ON PHYSIOLOGICAL ECOLOGY OF MEIOFAUNA, ARCACHON 1974

- Circular -

Name:

Nationality:

Institution:

Address:

I hope to attend the Arcachon meeting - to present a paper and/or
- to participate to the "Table Ronde" and to the discussion sessions.

I shall be accompanied by:

Date preferences: September 3 - 6 or October 8 - 11, 1974

I wish to present a paper(s) with the following provisional title(s):

.....
.....
.....

The following students will also attend:

.....

I wish to make a reservation in a hotel: yes / no

Dormitory at the laboratory (low charge): yes / no

Date:

Signature:

N.B. meals will be served at the Institute at very low charge.

Please complete and mail this form BEFORE February 1st., 1974

to: Dr. Pierre Lasserre

Institut de Biologie Marine

Université de Bordeaux

2 rue du professeur Jolyet

33120 Arcachon, France

R E C E N T L I T E R A T U R E

Mikrofauna des Meeresbodens

Up to now, in this series of the Akademie der Wissenschaften und der Literatur in Mainz (Editor: Peter Ax, Göttingen), begun in 1970, 25 papers have appeared, dealing mainly with systematics, morphology, life cycles and ecology of various taxonomic groups of the marine meiofauna. In the next future a bulk of the papers will deal with different aspects of the Galapagos project of the II. Zoological Institute in Göttingen; three studies have been published already, a few others are in press. It is planned furthermore to accept also to a certain extent papers from outside the II. Zoological Institute, especially smaller monographs on interesting meiofauna taxa. The papers of this series may be bought individually, there is a reduction of 10% for subscribers (Verlag Franz Steiner GmbH, Wiesbaden, Germany, GFR).

Since the last issue of Psammonalia following titles have been published:

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| 17. MIELKE, W., 1973: Zwei neue Harpacticoidea (Crustacea) aus dem Eulitoral der Nordseeinsel Sylt. 14 pp. | 22. EHLERS, B., und U. EHLERS, 1973: Interstitielle Fauna von Galapagos. II. Gnathostumulida. . 30 pp. |
| 18. HARTWIG, E., 1973: Die Ciliaten des Gezeiten-Sandstrandes der Nordseeinsel Sylt. Systematik. 69 pp. | 23. AX, P. und U. EHLERS, 1973: Interstitielle Fauna von Galapagos. III. Promesostominae. . 18 pp. |
| 19. EHLERS, U., 1973: Zur Populationsstruktur interstitieller Typhloplanoida und Dalyellioida (Turbellaria, Neorhabdocoela). 105 pp. | 24. SCHMINKE, H.K., 1973: Evolution, system und Verbreitungsgeschichte der Familie Parabathynellidae (Bathynellacea, Malacostraca). . 200 pp. |
| 20. AX, P. und P. SCHMIDT, 1973: Interstitielle Fauna von Galapagos. I. Einführung. 36pp. | 25. LORENZEN, S., 1973: Die Familie Epsilonematidae (Nematodes). . 88 pp. |
| 21. HARTWIG, E., 1973: Die Ciliaten des Gezeiten-Sandstrandes der Nordseeinsel Sylt. II. Ökologie. . 180 pp. | |

Following titles are in press:

26. SCHMIDT, P.; Interstitielle Fauna von Galapagos IV. Gastrotricha.
27. AX, P. & R. AX : Interstitielle Fauna von Galapagos V. Otoplanidae (Turbellaria, Proseriata).
28. WESTHEIDE, W. & P. SCHMIDT: Interstitielle Fauna von Galapagos VI. *Aeolosoma maritimum dubiosum* nov.ssp. (Annelida, Oligochaeta).
29. AX, P. & R. AX: Interstitielle Fauna von Galapagos VII. Nematoplanidae, Polystyliphoridae, Coelogynoporidae (Turbellaria, Proseriata).
30. EHLERS, U. & P. AX: Interstitielle Fauna von Galapagos VIII. Trigonostominae (Turbellaria, Typhloplanoida).
31. WESTHEIDE, W.: Interstitielle Polychaeten aus brasilianischen Sandstränden.
32. FAUBEL, A.: Die Acoela (Turbellaria) eines Sandstrandes der Nordseeinsel Sylt.
33. GLOME, D.: Zur Systematik von Nematoden aus dem Sandstrand der Nordseeinsel Sylt.
34. SOPOTT-EHLERS, B. & P. SCHMIDT: Interstitielle Fauna von Galapagos IX. Dolichomucrostomidae (Turbellaria, Macrostomida).

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