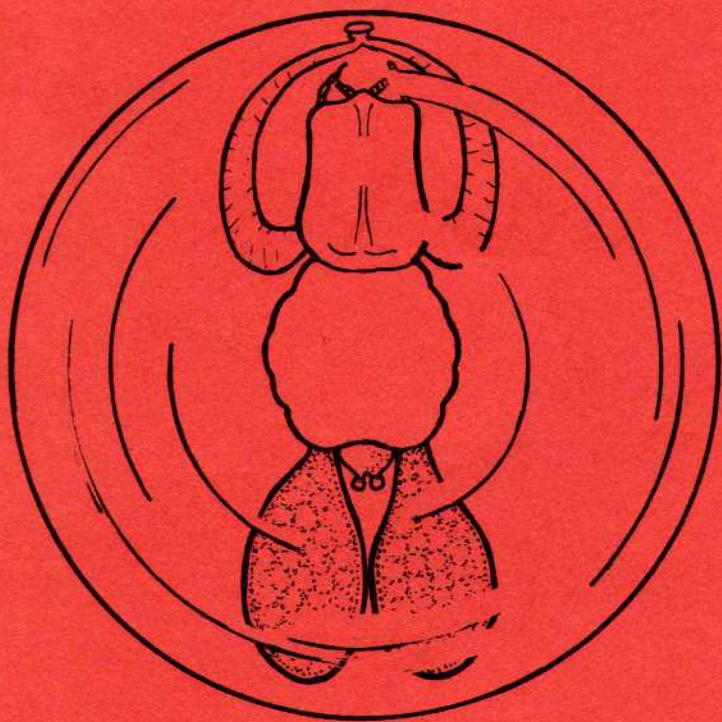


MONOCULUS

Copepod Newsletter



Nr. 4

April 1982

bis

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MONOCULUS


Copepod Newsletter

Number 4

April 1982

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For North America by : Chang-tai Shih, Division of Invertebrate Zoology, National Museum of Natural Sciences, Ottawa, Ontario, Canada K1A 0M8

(This document is not part of the scientific literature and is not to be cited, abstracted or reprinted as a published document.)

Birthdays this year:

- 85 : Friedrich Kiefer
80 : Théodore Monod
Otohiko Tanaka
75 : Jadwiga Grabda
T. Hoshina
70 : Josef Eiselt
Emerita Marques

Death:

Dr. Georgiana B. Deevey died
on January 9th, 1982

Deadline for next issue of *MONOCULUS*: 15 September 1982

E d i t o r i a l

You have had to wait long for this issue of *MONOCULUS*, haven't you. We bet you expected it to appear before Christmas. So did we, but then Gerd had to go on a cruise collecting deep-sea harpacticoids - and Kurt? A film on Gregor Mendel and his work which he showed to his students recently ended with saying that eventually Mendel was elected abbot with the result that he had to abandon his scientific work. Well, Kurt's colleagues had the wonderful idea of making him dean some time ago But this job is only for two years.

What has happened in the meantime? The First International Conference on Copepoda was held in Amsterdam and although this happened over half a year ago, to us it is as though it was only yesterday. We shall report on this further below. The next conference to take place in Ottawa in 1984 has started to take shape and you will be surprised to see below how far the plans have already progressed. We could almost meet this year again!

The *MONOCULUS*-Museum has put up its shelves but they are still empty. The idea seems not to have been sufficiently propagated yet. It is somewhat different with the *MONOCULUS*-Library which can be said to flourish moderately, reprints and lists of publications still arriving from time to time. In Amsterdam we suggested that a new column should be opened in *MONOCULUS* with reports by either single copepodologists or working groups on their actual research activities. We were warned that this might result in a real flood of contributions. However, the tide appears to be out and reluctant to return. We have taken our precautions though and have been on the look-out for new financial support since our campaign for donations in Amsterdam was a complete failure. Our new partner is what is called Bibliotheks- und Informationssystem (BIS) at Oldenburg University, in other words the university library.

In order to recall us to your mind, here is *MONOCULUS* number four.

4th Sc. 1-3 J. Brumm

Business ssenisuB

1. Bibliography

Lists of publications and/or reprints keep coming in intermittently. *"I regret that my 'personal bibliography' is as yet rather limited ... I can only claim responsibility for one-third of an article ... Does this mean I only qualify for one third of an asterisk?"* wrote I. Sutherland from Ottawa. We decided to give him credit. New names with an asterisk are: Andersen, Avdeev, Battaglia, Bisol, Björnberg, Blades-Eckelbarger, Bradford, Brylinski, Campaner, Cressey, Dadswell, De Decker, Drenner, Elmgren, Frenzel, Greenwood, Illg, Izawa, J.K. Johnson, Lacroix, Leblanc, Le Borgne, M. Lewis, Mihailowa, Scotto di Carlo, Sekiguchi, Skjoldahl, Smyly, Sutherland, Vanderploeg, Volkmann, and Yang.

This means that out of 395 people who are on our mailing list at present, 160 have so far responded to our appeal for sending a list of their publications on copepods and reprints of them as far as still available. In collaboration with J. Sieg from Vechta, editor of TANAIACEA NEWSLETTER, we have started to feed a computer with these lists. Gerd Dahms, student in Oldenburg, is actually doing most of the feeding by hand. We hope that eventually the computer will gratify these efforts by regurgitating a neat bibliography. Mind you, this computer is an extremely greedy and voracious instrument, constantly crying out for more lists. Please don't let him down! Don't withhold your list any longer! Send it (and if still available also reprints) to Kurt Schminke instantaneously and help to appease the hunger of this undernourished machine!

2. MONOCULUS-Library

The reprints accompanying the lists of publications have been the main source so far from which the MONOCULUS-Library has been fed. Yet, in order to keep the library abreast with the latest output it needs receiving your most recent publications as soon as they appear. Too few of you have as yet become accustomed to supplying the MONOCULUS-Library regularly with reprints of the latest publications and to helping to make the

list published in *MONOCULUS* to be as complete and up to date as possible. Out of the publications listed below only two are from this year! If *MONOCULUS* is to serve its purpose it has to become the vanguard instead of being the rearguard behind commercial bibliographies. Please, don't forget to put the *MONOCULUS*-Library on your list for quick mailing.

3. MONOCULUS-Museum

God bless Dick Hamond for coming up with this extremely practical idea of the *MONOCULUS*-Museum! However, unless he goes ahead himself and makes the first contribution we shall probably have to wait long for someone for the others to follow suit. Or who else is going to take the lead? The museum does not want type or paratype material. It is just a matter of sending Gerd Schriever properly labelled a few specimens of the common species in your local hunting-ground and of just adding the rarer ones as well. Not all at once, but as they come in in the course of your work. After an ecological study for instance send Gerd some specimens, males and females, of the species encountered. It is not much extra work really, but of great potential value for a variety of systematic, ecological and zoogeographical studies. As Dick Hamond said "*could not MONOCULUS persuade as many workers as possible to put voucher specimens also into MONOCULUS'S own museum, which would then act as a base for loans of material which might not be available from any other source?*" *MONOCULUS* is trying to do so. Please, help us to persuade you because this can only be done individually.

4. Reports on current research activities

There is the desire of starting to know more about one another among copepodologists. In particular it is felt that information should be exchanged on individual research activities or research programmes guiding copepodological work in the various laboratories. *MONOCULUS* is willing to publish such information and this is after the appeal in Amsterdam the second call for handing in relevant reports. Please send them to Kurt Schminke.

5. Mailing

There has again been a long delay in the delivery of the last

issue of this newsletter to the *MONOCULUS*-subcommunity in North America. As you know C.T. Shih is distributing *MONOCULUS* from Ottawa. Most of you will remember that there had been a 7-week postal strike in Canada last year and the original copy of *MONOCULUS* No. 3 to be reproduced in Ottawa came to lie on the very bottom of a mail bag, we imagine, at the very bottom of a large heap of mail bags accumulating rapidly during the strike. Four weeks had gone by when it emerged from down there and another fortnight was necessary to have *MONOCULUS* reproduced and mailed. We wonder what will happen this time.

6. Directory of localisation of types of Copepoda

In Amsterdam B. Dussart from Les Eyzies distributed the following motion: To facilitate work of copepodologists who have a taxonomic problem: creation of a new species, comparison of species, revision of taxa, etc..., it would be desirable that a working group should be organized to prepare a directory noting for each known species where the holotype has been deposited (and its number), paratypes labelled and if possible syntypes and mail address of deposition.* This directory should be published and be at the disposal of specialists in the main specialized libraries and in the main laboratories of copepodology, well known. The centralisation of information needed for a periodical supplement could be made in the British Museum, Crustacea Section, mail address: Cromwell Road, London SW7 5BD (G.B.).

* Example:

Tropodiatomus loveni (de Guerne et Richard, 1890) described under the name Diaptomus loveni.

Type station: Mayumba (Congo) in: Guerne, J. de et J. Richard - Bull.Soc.zool.Fr. 15: 177-178.

Paratypes in collection J. Richard, c/o Zoology Department Jordan Hall 224 (Prof. D. Frey in 1981) Indiana University Bloomington (Ind.) 47401 USA.

cf Dussart, B. 1981.

Please comment on this motion and make suggestions how it could be put into practice.

Leptinogaster histrio and the consequences

Leptinogaster histrio is a poecilostome copepod of 2 (♂) - 3 (♀) mm length living in the mantle cavity of the bivalves *Abra alba* and *Macoma balthica*. In relation to that of its hosts its size is fairly large and the agility with which it moves through the gills of its host makes it rather easy to detect once the mantle cavity has been opened.

In the course of a production programme carried out in the Wadden Sea along the Dutch coast in 1950/51 it was observed that *Macoma balthica* was dying in great numbers. The reason for this was unknown. A young scientist decided to get at the root of that matter. When opening the bivalves he found 80% of them infested by a copepod the study of which determined the further course of his scientific career. Which copepod it was is clear by now, and the name of the young scientist is also no more difficult to guess. Jan H. Stock it was, now known as one of the world's foremost copepodologists.

He told me this story in the bus to "Zaanse Schans", an open air museum near Amsterdam with 17th and 18th century country-style houses and a picturesque collection of wind-mills, where the participants of the First International Conference on Copepoda were taken to relax from the stress of a continuous stream of lectures and discussions. Probably no one in the bus had an inkling that ultimately it was to *Leptinogaster histrio* that he owed his presence at the conference. Without *Leptinogaster histrio* Jan H. Stock would perhaps not have become copepodologist, and without Jan H. Stock no conference on Copepoda in Amsterdam:

The conference had been opened on the 24th of August 1981 at 2 p.m. by F.D. Pórr, the president, and J.H. Stock as chairman of the conference welcomed the participants in the main lecture room of the "Natura Artis Magistra", the Royal Zoological Society, right next to the Zoological Gardens. One of the lecture rooms was even hidden in the middle of the zoo. Fancy having birds and mammals twinkling at you while pondering copepodological problems. Ornithology (and mammalogy) for the copepodologist! These copepodologists had come from all directions and from all parts of the world. From New Zealand and Australia, from Japan and India, from

North and South America, from most western European countries, and with a delay of two days the only participant of an eastern European country arrived from Rumania. I don't know the exact number but I guess there were about 120 copepodologists who had come together for the first time to hold a conference on their particular group of Crustacea.

It started with a plenary session on macrosystematics and phylogeny of copepods which gave rise to a prolonged and controversial discussion taken up again at two different occasions later during the conference. When exhausted from this debate the first day, the audience moved to the aquarium of the Zoological Gardens for an informal reception. During the next five days a long row of lectures ensued touching on almost all aspects of copepodology.

The programme was not over though once one had left the lecture room late in the afternoon. It continued in the streets at night, though in a somewhat different style. As the nights were mild, the streets were teeming with people being entertained by a variety of groups performing at the next corner or under a tree of one of the squares. Amsterdam is a marvellously lively and tolerant city. A group from the United States sang religious songs, a group of Indios folk songs from South America. Rock music was played and pantomime performed a little further along. Acrobatic shows were going on, fire swallowing, fakir numbers, lasso artisticks.

Eyes and ears were caught by a colourful international programme in the streets as well as in the lecture room. In the lecture room it was interesting what the speakers said and demonstrated talking about the peculiarities of the species, its adaptations and habits, and about the ecosystem they had studied. Less interesting was how they did it, giving their lecture all in a standardized form which did not vary much whatever the speaker's cultural background. (This did not apply to the English spoken.) In the streets it was just the opposite. What was at stake was fairly the same in all performances: love and hope, skill and fun, misery and sorrow. But how it was expressed varied considerably according to the artists' cultural background.

Interspersed between the lectures was a film session showing the functioning of the mouthparts of a calanoid copepod in a series of spectacular sequences, and a business meeting was held to assess the present status of the organization of copepodologists and to determine year and place of the next conference. An interval of three years was found appropriate between two consecutive meetings. The next conference will take place in Ottawa in 1984 organized by C.T. Shih and C.J. Corkett. The scientific results of the Amsterdam conference will be published in CRUSTACEANA and W. Vervoort and J.C. von Vaupel Klein will do their best to deliver the proceedings of this first conference to the printer by the end of January 1982.

"What were the most interesting events for you at this conference?" I asked Jan H. Stock in the bus to "Zaanse Schans". *"From a personal point of view" he said "I enjoyed meeting so many fellow copepodologists. Some I hadn't met at all so far, and some I hadn't met for a long time. From a scientific point of view, one of the highlights for me was the phylogeny discussion and from an organizational point of view I am glad that a definite organizational frame has now been given to copepodology with MONOCULUS as a mediator and the regular conference as a point of crystallization. I regard this as the most important result of this conference.*

I fully agree with these summarizing remarks. We had a great time in Amsterdam thanks to Jan H. Stock and those who helped him in making the conference a great success. I thoroughly enjoyed the meeting except for a little side aspect which I would like to touch upon now.

An unorthodox attempt to finance MONOCULUS

This is the story of a bad idea. Unfortunately, neither Gerd nor I can say that he was not responsible. It crept up in our minds almost simultaneously and in the car to Amsterdam we were convinced that it was a jolly good idea.

The time before the conference was rather hectic. Why? We had decided to compile the "Directory of Copepodologists" in time for the meeting in Amsterdam. So Gerd sent me the pile of postcards

that had been returned with the names and addresses and what else we wanted to know. A quick job, I thought when Gerd announced the parcel on the phone and I told him to make arrangements for having the lists printed in three days' time. When he rang me again after a week the typist was still struggling hard with all those foreign addresses. What a silly mistake we had made in noting "please use typewriter" at the bottom of the postcard instead of at the top! Some of you put "too late" or "sorry" after you had reached the bottom. It was a hair-raising job to decipher the different types of handwriting and to standardize the information given under the heading "field of research". This information ranged from almost a complete article to two words like "marine biology" or "systematics, ecology". However, when Gerd came along to pick me up for the conference, in the back of his car was a huge box with hundreds of directories nicely piled up.

We don't charge you for *MONOCULUS* because making you pay and keeping the books are tasks that none of us is particularly keen on. The meeting, however, seemed to us to be an excellent occasion for raising some funds to ensure the next issues of *MONOCULUS*. But how much should we charge for the directory? Gerd told me that shortly before he had left for this trip he had received a cheque worth 150,00 DM (about 60 US dollars) from Fr. Kiefer as a donation for *MONOCULUS*. DONATION, that was the ideal! Why not leave it to our colleagues how much they would give us? When collecting for the Red Cross as kids we used to give a little paper flower to whoever happened to drop a coin into our collecting box which we carried rattling through the streets. The directory would take the place of the little paper flower as a modest 'thank you' for the generous gifts.

After the opening ceremony of the conference we piled up a few directories on one of the desks in the lounge near the main lecture room. The first to come along had eyes only for the directories, took one and went away not paying any attention to our feeble protests. The next was so kind to ask for the price and we explained that it was up to him how much he would give us, sort of a donation for *MONOCULUS*. He took a copy, turned a few pages, put it back and went muttering away. Later when we knew

who he was, we realized that his name was not in the directory like the names of all those who had failed to return the post-card.

The next morning we had our little donation story announced officially in the lecture rooms. When I returned to the desk between two lectures I heard Gerd being asked what the costs had been to produce a single copy of the directory. He started to calculate and received exactly that sum. I couldn't remember that as a child I had ever been asked the price of my little paper flower. What is the usual sum you receive from the others, was a not infrequent question. But it also happened that once after we had received the usual 5 Dutch guilders we had to witness how someone took away two copies with the remark that the second was for a colleague not attending the conference.

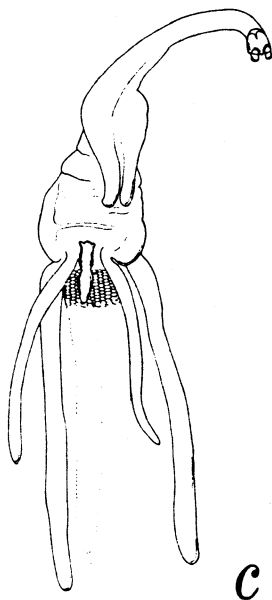
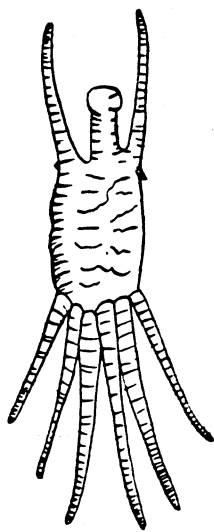
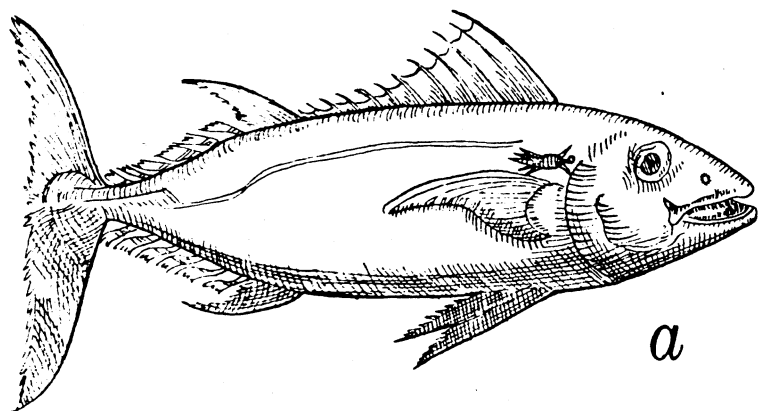
One afternoon, someone came along and started to involve us into a lively discussion playing around with one of the copies as is done by many people unconsciously with any object at hand to keep the fingers busy. Eventually he started to retire from the desk carrying on with the discussion from an ever growing distance and taking away with him - unconsciously - one of our copies.

Our wonderful idea yielded 370,00 DM during the conference. The costs for producing the directories had been 640,00 DM. In the car on the way home Gerd developed a strange aversion against the word donation, and I couldn't help thinking of that hospital in Africa which I had visited long ago, and where even the poorest patient was made to pay a symbolic sum because people tend to think, I was told, that what has not to be paid for cannot be worth very much. Have we encouraged that mentality by issuing *MONOCULUS* free of charge?

The l e t t e r b o x

R. Cressey from Washington sent the following note and figures: *"In response to the drawing in MONOCULUS of the 'premier Copépode (?) dessiné' 1754 sent to you by B. Dussart I submit the enclosed figures which appeared in Rondelet, 1554 and repeated by Gesner, 1558 of what is undoubtedly the parasitic copepod Brachiella thynni (Cuvier, 1830). It is interesting that the ar-*

De Orcyno.



tist 'moved' the copepod to just above the axil of the pectoral fin from behind the fin where it is normally found. Compare the Rondelet (fig. a) and Gesner (fig. b) illustrations with a more recent one from Cressey & Cressey, 1980 (fig. c)."

Report from the Organizing Committee for
the Second International Conference on Copepoda *

After some discussions, the members of the Organizing Committee propose the following tentative plan for the Second International Congress on Copepoda scheduled for 1984 in Ottawa, Canada. Comments on our plan and suggestions from fellow copepodologists are cordially solicited. We strongly believe your active involvement in planning the programme will be an important factor in the success of the Second Conference.

The conference will be held during the month of July or August. The duration will be five days, from Monday to Friday. The participants will be housed in a student residence of the University of Ottawa. The university currently charges \$18.50 for a single room and \$25.00 for a double room (all in Canadian currency). Assuming an increase of 10-12% per annum, the approximate rates for 1984 will be \$23.00 and \$31.00 respectively.

Assuming we have single sessions only, the conference may be held at the National Museum of Natural Sciences auditorium which has a capacity of 400 seats. The museum auditorium is within walking distance from the university residence. It is also highly probable that NMNS will provide limited bus service between the university and the museum. There is a large and comfortable salon in the museum which can be booked for our use during the conference. If concurrent sessions are required, we may have to hold our conference in the university.

A tentative schedule for the Second Conference:

Sunday evening	Registration at the university residence
Monday morning	Late registration; Opening ceremony; Contributed papers
afternoon	Symposium
evening	Reception sponsored by NMNS
Tuesday morning	Symposium
afternoon	Contributed papers
Wednesday morning	Contributed papers
afternoon	Panel discussion on copepod phylogeny; Business meeting

*North American fellow copepodologists: Please return your comments and suggestions to me at your earliest convenience. C.I. Shih.

evening	Cruise on the canal
Thursday morning	Symposium
afternoon	Contributed papers
Friday morning	Symposium
afternoon	Contributed papers; Closing ceremony

The above schedule is for a single-session conference. Each symposium requires a chairperson who is responsible for inviting four to five speakers to present a review and perspectives on the same subject but from different disciplinary points of view. Each session of contributed papers will include up to eight titles. In total, the conference will accommodate 60 or more speakers. If necessary, we may expand part or whole of the conference to two concurrent sessions at the expense of convenience.

During the First Conference, we had an interesting but inconclusive discussion on copepod phylogeny. By announcing now our intention to have a panel discussion on the same subject in the Second Conference, we hope to allow sufficient time for those participants who are interested in this subject to do their homework before coming to the conference. Dr. Zbigniew Kabata has agreed to moderate the discussion.

We have not made the final decision on the titles of the symposia. Several topics have been suggested, such as "zoogeography", "ecology and behaviour", "growth, life history, and culture", "morphology and anatomy", "advance in technology", and "evolution", and some colleagues have volunteered to chair some of the symposia. We hope you will express your opinion regarding symposia to any member of the Organizing Committee.

We should entertain the idea of having a poster session in the Second Congress.

If you are interested in organizing a special session on a particular subject during the evenings, please do not hesitate to inform us. We will try to accommodate your proposal if enough interest is indicated.

Pre- and postcongress excursions can be arranged if we have sufficient demand. Any suggestion?

We hope to present a formal programme for the Second Conference in the next issue of *MONOCULUS*, including the dates for submission of abstracts and manuscripts, and of the conference.

Members of the Organizing Committee:

Christopher J. Corkett
Biology Department
Dalhousie University
Halifax, Nova Scotia
Canada B3H 3J5

Zbigniew Kabata
Canada Fisheries and Oceans
Pacific Biological Station
Nanaimo, British Columbia
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J. Carel von Vaupel Klein
Afdeling Systematische Dierkunde
p/a Rijksmuseum van Natuurlijke
Historie
Raamsteg 2, Postbus 9517
2300 RA Leiden
Nederland

A^NN_OU^NC^EM^EN_TS

International Symposium on Indo-Pacific Plankton, Shimizu, Japan
22 July - 4 August, 1984, Principal Convenors: The Western So-
ciety of Naturalists, USA, and Tokai University, Japan.

The convenors consider that several areas of plankton research
are ready for symposium review and synthesis. They propose an In-
ternational Symposium on Indo-Pacific Plankton. Tokai Universi-
ty offers the Shimizu campus and its Institute of Oceanic Re-
search and Development for the meeting site.

Preliminary planning indicates areas below would be of interest
to current researchers. The Organizing Committee welcomes fur-
ther suggestions as to specifics and scope. The tentative sche-
dule envisioned blends presentation and work sessions.

Possible areas for consideration:

- Categorization of the diversity of plankton habitats
- Adaptive specializations of species in specific habitats.
- Conventional community concepts as they relate to plankton.

- Re-examination of the status of plankton taxonomy
- Multidimensional characterization--variability, chemical,
chromosomal, behavioural and distributional evidence.
- Evolutionary, phylogenetic data.
- Establishment of plankton collections and repositories
world-wide.

- Ontogenetic and other specializations shaping temporal/spa-
tial distribution

Ontogenetic vertical migratory behaviour.
Submerged juvenile stages/resting ova.

Advances in speciation, evolution, paleoceanographic circulation & environmental patterns.

All presented papers would be published in the "Bulletin of Marine Science", and group flights and accomodations would be arranged. There is a possibility of funding for major speakers and young scientists.

Interested persons should contact:

Prof. David H. Montgomery
Western Society of Naturalists
Biological Sciences Department
California Polytechnic State University
San Luis Obispo, California 93407, USA
Phone: 805:546-2446. Telex - 685-451

25% Discount on "Biology of Crustacea": This year Academic Press will begin publishing the "Biology of Crustacea", a set of 10 volumes encompassing significant findings, including methods, in three general areas of crustacean research. Volume 1 (Systematics, the Fossil Record, and Biogeography) is scheduled to be published in May, volume 2 (Morphology, Embryology, and Genetics) and volume 3 (Neurobiology: Structure and Function) will be published in June, and volume 4 (Neural Integration and Behaviour) will be published in March. The remaining volumes are in preparation. These volumes will carry a list price of \$40 or more per volume. The "Crustacean Society" is able to offer members or subscribers to the "Journal of Crustacean Biology" a discount of 25% on individual volumes ordered from the Society's business office, a substantial savings to members.

For further information, write to the following address:

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

Crustacean Growth: A Symposium and Publication - A symposium, "Factors affecting crustacean growth", has been approved by the American Society of Zoologists for the ASZ meetings in Louisville, Kentucky (27-30 Dec. 1982). Arrangements have also been made to publish the best of the symposium papers as well as related pa-

pers as a single volume on crustacean growth, insuring a broad coverage of the subject.

Contact: Adrian M. Wenner
University of California, Santa Barbara
Marine Science Institute
Santa Barbara, California 93106, USA

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1980

- BAMSTEDT, U. & H.R. SKJOLDAL - 1980: RNA concentration of zooplankton: relationship with size and growth. *Limnol. Oceanogr.* 25(2): 304-316
- BATTAGLIA, B., P.M. BISOL, V.U. FOSSATO & E. RODINO - 1980: Studies on the genetic effects of pollution in the sea. *Rapp. P.-v.Réun.Cons.int.Explor.Mer* 179: 267-274
- , - & E. RODINO - 1980: Experimental studies on some genetic effects of marine pollution. *Helgoländer wiss.Meeresunters.* 33 (1-4): 587-595
- BISOL, P.M. - 1980: Analisi elettroforetica delle amilasi in due gruppi di specie gemelle di copepodi del genere Tisbe. *Atti Ist.Veneto Sci.Let.Art., Cl.sci.fis.mat.nat.*, 138: 113-119
- , M. BARILE, D. CREMONESE, R. TONINATO & B. BATTAGLIA - 1980: Effetti genetici di idrocarburi su popolazioni sperimentali di Tisbe holothuriae (Copepoda, Harpacticoida). *Mem.Biol.Marina Oceanogr.*, Suppl. 10: 137-139
- , M. CERVELLI, G. FAVA & V. VAROTTO - 1980: Variabilità genetica in Tisbe holothuriae (Copepoda, Harpacticoida) della laguna di Venezia. *Mem.Biol.Marina Oceanogr.*, N.S., Suppl. 10: 367-368
- , N. MARIN & M.C. STELLA - 1980: Distanza genetica in Tisbe (Copepoda, Harpacticoida). I. Studio in popolazioni del gruppo 'gracilis'. *Accad.Naz.Lincei, Rend.Cl.Sci.fis.mat.nat.*, (8) 68: 333-342
- BLADES, P.I. & M.J. YOUNGBLUTH - 1980: Morphological, physiological and behavioral aspects of mating of calanoid copepods. In: KERFOOT, W.C. (ed.), The Evolution and Ecology of Zooplankton Communities, University Press of New England, 1980: 39-51
- BRADFORD, J.M. - 1980: First record of a copepod parasitizing the ostracod family Rutidermatidae (Mydocopina: Cypridinacea): Sphaeronella spinosa n.sp. (Copepoda: Choniostomatidae). *Proc. Biol.Soc.Washington* 93(1): 141-144
- & J. JILLET - 1980: The marine fauna of New Zealand: pelagic calanoid copepods: family Actideidae. *N.Z. Oceanographic Institute Memoir* 86: 102 pp.

- CERVELLI, M. & G. FAVA - 1980: Carico genetico in Tisbe (Copepoda, Harpacticoida). III. T. bulbisetosa della laguna di Grado e della sacca di Scardovari. Accad.Naz.Lincei, Rend. Cl.Sci.fis.mat.nat., (8) 68(4): 343-351
- CRESSEY, R. & H.B. CRESSEY - 1980: Bomolochid copepods parasitic on the eyes of Indo-West Pacific clupeid fishes. Fish. Bull. 78(3): 715-730
- & - 1980: Parasitic copepods of mackerel- and tuna-like fishes (Scombridae) of the world. Smith.Contr.Zool. 311: 1-186
- DRENNER, R.W. & S.R. MCCOMAS - 1980: The roles of zooplankton escape and fish size selectivity in the selective feeding and impact of planktivorous fish. In: KERFOOT, C. (ed.), Evolution and Ecology of Zooplankton Communities, University Press of New England, Article 51: 587-593
- ELMGREN, R., G.A. VARGO, J.F. GRASSLE, J.P. GRASSLE, D.R. HEINLE, G. LANGLOIS & S.L. VARGO - 1980: Trophic interactions in experimental marine ecosystems perturbed by oil. In: GIESY, J.P. (ed.), Microcosms in ecological research, U.S. Technical Information Center, U.S. Department of Energy, Symposium Series 52: 779-800
- FAVA, G. - 1980: Osservazioni ecologiche sulle specie di Tisbe (Copepoda, Harpacticoida) nella laguna di Marano. Atti Ist. Veneto Sci.Let.Art., Cl.sci.fis.mat.nat., 138: 39-51
- GREENWOOD, J.G. - 1980: Composition and seasonal variations of zooplankton populations in Moreton Bay, Queensland. Proc.R. Soc.Queensland 91: 85-103
- HUMES, A.G. - 1980: A review of the copepods associated with holothurians, including new species from the Indo-Pacific. Beaufortia 30(4): 31-123
- & M. DOJIRI - 1980: A new siphonostome family (Copepoda) associated with a vestimentiferan in deep water off California. Pacific Sci. 34(2): 143-151
- HURE, J., A. IANORA & B. SCOTTO DI CARLO - 1980: Temporal and spatial distribution of copepod communities in the Adriatic Sea. J.Plankton Res. 2(4): 295-316
- IKEDA, T. & H.R. SKJOLDAL - 1980: The effect of laboratory conditions on the extrapolation of experimental measurements to the ecology of marine zooplankton. VI. Changes in physiological activities and biochemical components of Acetes sibogae australis and Acartia australis after capture. Mar. Biol. 58: 285-293
- ILLG, P.L. & P.L. DUDLEY - 1980: The family Ascidiicolidae and its subfamilies (Copepoda, Cyclopoida), with descriptions of new species. Mém.Mus.Natn.Hist.Nat., N.S. (A, Zool.) 117: 1-192
- ITO, T. - 1980: Two species of the genus Longipedia Claus from Japan, with reference to the taxonomic status of L. weberi previously reported from Amakusa, southern Japan (Copepoda: Harpacticoida). J.Nat.Hist. 14: 17-32
- & J.J.S. BURTON - 1980: A new genus and species of the family Canthocamptidae (Copepoda, Harpacticoida) from a hot spring

- at Dusun Tua, Selangor, Malaysia. Zool.Jb.Syst. 107: 1-31
- JOHNSON, J.K. - 1980: Effects of temperature and salinity on production and hatching of dormant eggs of Acartia californiensis (Copepoda) in an Oregon estuary. Fish.Bull. 77(3): 567-584
- JONES, J.B. - 1980: A redescription of Caligus patulus Wilson from a Philippine fish farm. Syst.Parasitology 2(1): 103-116
- KAWATOW, K., K. MUROGA, K. IZAWA & S. KASAHARA - 1980: Life cycle of Alella macrotrachelus (Copepoda) parasitic on cultured black sea-bream. J.Fac.Appl.Biol.Sci., Hiroshima Univ., 19: 199-214 (in Japanese)
- KAZATSCHENKO, V.N. & V.M. TITAR - 1980: Geografitscheskoe rasprostranenie parazititscheskich kopepod, vstreščajuschichsja u ryb s obsčirnym arealom. In: 9ja konferenzija ukrainskogo parazitologitscheskogo obščestva, part 2: Tezisy dokladov, Kiev "Naukova dymka": 107-108
- LE BORGNE, R. - 1980: Les relations entre le zooplancton et le phytoplancton dans trois situations caractéristiques de l'Atlantique intertropical. In: "Productions primaire et secondaire", colloq. Franco-soviétique, Stat.Mar.Endoume, 9-12 janvier 1979. Publ. CNEXO (Actes Colloq.) No 10: 107-124
- & M. PRIVE - 1980: Données de biovolumes et biomasse de zooplancton à la station côtière d'Abidjan. Doc.Tech. ORSTOM, BC No 14: 99 pp.
- NIE, H.W. de, H.J. BROMLEY & J. VIJVERBERG - 1980: Distribution patterns of zooplankton in Tjeukemeer, The Netherlands. J. Plankton Res. 2(4): 317-334
- SEKIGUCHI, H. - 1980: Food habits of sandeel spawners from Ise Bay, central Japan. Bull.Fac.Fish., Mie Univ., 7: 1-9
- 1980: Relationship between growth rate and egg production in the copepod Acartia clausi hudsonica. Mar. Biol. 58: 133-138
- SMYLY, W.J.P. - 1980: Effect of constant and alternating temperatures on adult longevity of the freshwater cyclopoid copepod Acanthocyclops viridis (Jurine). Arch.Hydrobiol. 89(3): 353-362
- VIJVERBERG, J. - 1980: Effect of temperature in laboratory studies on development and growth of Cladocera and Copepoda from Tjeukemeer, The Netherlands. Freshw.Biol. 10: 317-339
- YEATMAN, H.C. - 1980: Miostephos leamingtonensis, a new species of copepod from Bermuda. J.Tenn.Acad.Sci. 55(1): 20-21
- 1980: A new species of Diagoniceps (Copepoda, Harpacticoida) and a partial redescription of Diagoniceps laevis Willey. Crustaceana 38(2): 121-126

1981

- BECKER, K.-H. & H. KUNZ - 1981: Die Stellung der Gattung Oniscopsis (Chappuis) im System der Harpacticoida (Crustacea, Copepoda). Mitt.Zool.Mus.Univ.Kiel 1(8): 34-37
- BERGMANS, M. - 1981: A demographic study of the life cycle of Tisbe furcata (Baird, 1837) (Copepoda: Harpacticoida). J.mar.biol. Ass.U.K. 61: 691-705

- BISOL, P.M., V. CANTARELLO, M.G. GRIGOLETTI & V. VAROTTO - 1981: Primi dati sulla competizione di due alleli del locus Pgi-1 in popolazioni sperimentali di Tisbe holothuriae (Copepoda, Harpacticoida). Atti Mem.Accad.Ratavina Sci.Let.Art., Cl.Sci.mat. nat., 92: 15-20
- BLADES, P.I. & M.J. YOUNGBLUTH - 1981: Ultrastructure of the male reproductive system and spermatophore formation in Labidocera aestiva (Crustacea: Copepoda). Zoomorphology 99: 1-22
- BRADFORD, J.M. - 1981: Records of Pareuchaeta (Copepoda, Calanoida) from McMurdo Sound, Antarctica with a description of three hitherto unknown males. N.Z.J.Mar.Freshw.Res.
- BRYLINSKI, J.M. - 1981: Influence d'un échauffement permanent des eaux par les rejets d'une centrale thermique sur le développement de Temora longicornis (Copepoda Calanoida) dans le port de Dunkerque. Publ. E.D.F. Fce, 2^{es} journées de la thermo-écologie, 14-15 novembre 1979: 659-677
- , 1981: Report on the presence of Acartia tonsa Dana (Copepoda) in the harbour of Dunkirk (France) and its geographical distribution in Europe. J.Plankton Res. 3(2): 255-260
- CRESSEY, H.B. - 1981: Ceratocolax mykternastes, new species (Copepoda, Bomolochidae) parasitic in the nasal sinus of Haemulon sciurus (Pisces, Pomadasyidae) from Belize. Proc.Biol.Soc. Washington 94(2): 514-524
- CRESSEY, R. - 1981: Parasitic copepods from the Gulf of Mexico and Caribbean Sea, I: Holobomolochus and Neobomolochus. Smith. Contr.Zool. 339: 1-24
- DOJIRI, M. - 1981: Copepods of the families Lernaepodidae and Naobranchiidae parasitic on fishes from southern California inshore waters. J.Crust.Biol. 1(2): 251-264
- FRYER, G. & A. JOYCE - 1981: The distribution of some freshwater copepods and its bearing on the history of the fauna and flora of the British Isles. J.Biogeogr. 8: 281-291
- GAGNON, M. & G. LACROIX - 1981: Zooplankton sample variability in a tidal estuary: an interpretative model. Limnol. Oceanogr. 26(3): 401-413
- GEDDES, D.C. - 1981: Marine biological investigations in the Bahamas 21. A new species of Cletopsyllus (Copepoda, Harpacticoida). Sarsia 66: 287-291
- GRASSLE, J.F., R. ELMGREN & J.P. GRASSLE - 1981: Response of benthic communities in MERL experimental ecosystems to low level, chronic additions of No. 2 fuel oil. Mar.Environ.Res. 4: 279-297
- GRICE, G.D. & N.H. MARCUS - 1981: Dormant eggs of marine copepods. Oceanogr.Mar.Biol. Ann.Rev. 19: 125-140
- HO, J.-S., F. KATSUMI & Y. HONMA - 1981: Coelotrophus nudus gen. et sp. nov., an endoparasitic copepod causing sterility in a sipunculan Phascolosoma scolops (Selenka and De Man) from Sado Island, Japan. Parasitology 82: 481-488
- & L. E. MCKINNEY - 1981: A new species of Eudactylina (Copepoda, Eudactylinidae) parasitic on black shark from Chile. Proc.Biol. Soc. Washington 94(3): 745-752

- ITO, T. - 1981: Descriptions and records of marine harpacticoid copepods from Hokkaido, VIII. J.Fac.Sci.Hokkaido Univ. VI (Zool.) 22(4): 422-450
- KUNZ, H. - 1981: Beitrag zur Systematik der Paramesochridae (Copepoda, Harpacticoida) mit Beschreibung einiger neuer Arten. Mitt.Zool.Mus.Univ.Kiel 1(8): 2-33
- 1981: Metacyclopina aff. harpacticoida (Klie) (Copepoda, Cyclopoida) von Helgoland. Mitt.Zool.Mus.Univ.Kiel 1(8): 37-40
- LEBLANC, A., I. SUTHERLAND & A. AUBIN - 1981: Diacyclops languidus (Sars, 1863) (Copepoda, Cyclopoida), nouvelle mention pour l'Amérique du Nord. Can.J.Zool. 59(3): 428-432
- , A. MAIRE & A. AUBIN - 1981: Ecologie et dynamique des populations de copépodes (Cyclopoida) des principaux types de milieux astatiques temporaires de la zone tempérée du Québec méridional. Can.J.Zool. 59(5): 722-732
- McLAREN, I.A. & C.J. CORKETT - 1981: Temperature-dependent growth and production by a marine copepod. Can.J.Fish.Aquat. Sci. 38: 77-83
- MIELKE, W. - 1981: Interstitielle Fauna von Galapagos XXVIII. Laophontinae (Laophontidae), Ancorabolidae (Harpacticoida). Akad.Wiss.Lit.Mainz, Math.-nat.Kl., Mikrofauna Meeresboden 84: 1-106
- , 1981: Interstitielle Ectinosomatidae (Copepoda) von Panamá. Akad.Wiss.Lit.Mainz, Math.-nat. Kl., Mikrofauna Meeresboden 85: 1-45
- PESCE, G.L. & D. MAGGI - 1981: Cyclopidés et calanoides des eaux phréatiques de la Grèce méridionale et insulaire (Crustacea: Copepoda). Ecologia Mediterranea 7(1): 163-182
- SCHMINKE, H.K. - 1981: Perspectives in the study of the zoogeography of interstitial Crustacea: Bathynellacea (Syncarida) and Parastenocarididae (Copepoda). Int.J.Speleol. 11: 83-89
- SCHULZ, K. - 1981: Tharybis minor sp.n. (Copepoda: Calanoida: Tharybidae) aus dem nordwestafrikanischen Auftriebsgebiet mit Anmerkungen zur Gattung Tharybis Sars. Mitt.hamb.zool.Mus.Inst. 78: 169-177
- SEKIGUCHI, H. - 1981: Occurrence of Cymbasoma bullatus (Scott) a monstrilloid copepod, from Japanese waters. Proc. Japan Soc. Syst.Zool. 20: 13-15
- SHIH, C.-T., L. RAINVILLE & D.C. MACLELLAN - 1981: Copepodids of Bradydus similis (Sars, 1902) (Crustacea: Copepoda) in the Saguenay fjord and the St. Lawrence estuary. Can.J.Zool. 59(6): 1079-1093
- SKJOLDAL, H.R. - 1981: ATP concentration and adenylate energy charge of tropical zooplankton from waters inside the Great Barrier Reef. Mar.Biol. 62: 119-123
- STOCK, J.H. - 1981: Associations of Hydrocorallia Stylasterina with gall-inhabiting Copepoda Siphonostomatiodea from the south-west Pacific. Part II. On six species belonging to four new genera of the copepod family Asterocheridae. Bijdr.Dierk. 51(2): 287-312
- VANDERPLOEG, H.A. - 1981: Seasonal particle-size selection by

Diaptomus sicilis in offshore Lake Michigan. Can.J.Fish.Aquat.
Sci. 38(5): 504-517

WELLS, J.B.J. - 1981: Keys to aid the identification of marine
harpacticoid copepods. Amendment Bulletin No. 3. Zool.Publ.
Victoria Univ. Wellington 75: 1-13

1982

GEDDES, D.C. - 1982: A redescription of Laophontina dubia Norman
& T. Scott (Crustacea: Copepoda: Harpacticoida). Zool.J.Linn.
Soc. London 74: 105-109

MIELKE, W. - 1982: Einige Laophontidae (Copepoda, Harpacticoida)
von Panama. Crustaceana 42(1): 1-11

D I R E C T O R Y O F C O P E P O D O L O G I S T S

K. Hulsemann from Hamburg pointed out to us a few mistakes in
the "Directory of Copepodologists", Supplement 1 to *MONOCULUS*.
It should read:

Corral Estrada, Jeronimo instead of Estrada, Jeronimo Corral

Furuhashi, Kenzo instead of Furushi, Kenzo

Hutchinson, Anne instead of Hutschinson, Anne

Kabata, Zbigniew instead of Kabata, Zbignien

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Honourable mention?

That is how *MONOCULUS* finds access to other newsletters. In *PORCUPINE NEWSLETTER*, a marine biology newsletter in Great Britain, we read: *A newsletter devoted to copepods and started in October 1980 has now reached its third issue. It is called "Monoculus", the generic name given by the remarkable Bishop Gunnerus of Norway to the animal we now call Calanus. Porcupine copepodologists not familiar with this informative publication should contact H. Kurt Schminke The journal is lively and the editor's linguistic command is remarkable, even to the length of apologising in Norman French for insulting a colleague by typographical error: "Honi soit qui mal y pense," he wrote in alleviation.*

It is nice that propaganda, how flattering soever, is made for us by fellow newsletters. Perhaps in return we may be allowed to do *PORCUPINE NEWSLETTER* a favour since this seems to be the only little problem it has: Our numbers, although standing at a reasonable level, are becoming static. - Please recruit another member, *PORCUPINE NEWSLETTER* asks its members and recommends. A simple ploy is to show your copy of *PN* to a friend, the while murmuring that our annual subscription is only £ 2.

Gee, its really great fun reading *PORCUPINE NEWSLETTER* and it is much more informative than *MONOCULUS* (hélas). See for yourself and write to:

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Directory of Copepodologists



MONOCULUS



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