



**Southern California Association of
Marine Invertebrate Taxonomists**

3720 Stephen White Drive
San Pedro, California 90731

November, 1992

Vol. 11, No. 7

- NEXT MEETING:** Polycirrinae Polychaetes and Blue Water Plankton
- GUEST SPEAKER:** Leslie Harris of the Los Angeles County Museum of
Natural History, Los Angeles, CA
Dr. Bill Hamner of the University of California,
Los Angeles, CA
- DATE:** December 14, 1992
9:30 am - 3:00 pm
- LOCATION:** Allan Hancock Foundation Building, Rm B-55
University of So. California, Los Angeles, CA
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DECEMBER 14 MEETING

The meeting will include discussions of Polycirrinae Terebellid Polychaetes by Leslie Harris of the Los Angeles County Museum of Natural History, and a talk with slides entitled "Blue Water Plankton" by Dr. Bill Hamner of the University of California, Los Angeles, CA

Dr. Hamner's talk will begin at 10:00 am. Leslie Harris will follow at approximately 11:00 am. Please bring any problem Polycirrinae specimens and associated literature to the meeting.

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*SCAMIT Newsletter is not deemed to be a valid publication for
formal taxonomic purposes.*

MINUTES FROM MEETING ON NOVEMBER 16&17

Ron Velarde announced that Dr. Jim Thomas has accepted the crustacean position at the Smithsonian Museum. Dr. Thomas expressed his gratitude for all of the support he has received.

Don Cadien of the Los Angeles County Sanitation District informed SCAMIT members that *Tellina* sp A (Ljubenkov), presented at the July meeting, has been occurring in deeper water (>150m) and *T. carpenteri* in shallower water (60-150m). Please report any findings to John Ljubenkov at MEC Analytical Systems, Carlsbad, CA.

Hans Kuck, Los Angeles County Museum of Natural History, provided attending SCAMIT members with a list of material in the LCMNH Crustacea Reference Library: Amphipoda and a list of publications of J. Laurens Barnard. Both lists have been included in this newsletter. If anyone is interested in any of the articles on either list please contact Hans.

SCAMIT Officers Elections

Nominations are now open for SCAMIT officers for the 1993-94 year. Nominations will be entertained from now, up to and including the January meeting. Send your nominations to the Vice President, Larry Lovell. Ballots will be mailed out with the January newsletter and will be due by the March meeting.

1993-94 Schedule

Larry Lovell is looking for input on possible speakers and subjects for the next year. He would appreciate any input you might have. You can write him at:

Larry Lovell
1036 Buena Vista
Vista, CA 92083

Don't forget the SCAMIT Christmas party scheduled for Saturday evening, December 5th from 6:00 to 9:00 pm at the Cabrillo Marine Museum. The party is potluck, Italian style. The Olive Garden Restaurant will supply SCAMIT with unlimited salad and breadsticks. Larry suggested that one person from each lab be in charge of the number of people and kids planning to attend and what dish they are bringing. If you have any questions call Larry Lovell at (619) 945-1608. The museum will be open for SCAMIT members and families. John-Claus will be there too! We will be setting up tables and chairs at 5 pm. Please come and help if you can.

Amphipoda Workshop

The first morning Dr. E. L. Bousfield discussed the general background, phyletic classification, and principle characters of amphipods. Drs. Bousefield and Les Watling believe that Mysidacea is the sister group to Amphipoda based on external and internal morphology. Dr. Bousfield has split the amphipods into Natantia (free swimming) and Reptantia (crawlers) groups. He then reviewed the reproductive traits and evolutionary trends for both groups. He proposed that this classification still needs further refinement and study. Dr. Bousfield finished his talk with some slides of amphipoda species from southern California to Alaska. In the afternoon Dr. Craig Staude examined specimens which were brought by members to the meeting.

The second morning, Dr. Bousfield presented the talk he gave at the J. Laurens Barnard Memorial Service entitled "Impact of J. L. Barnard, Past, Present, and Future on North American Pacific Amphipod Research". Dr. Staude then discussed the proposed illustrated guide to amphipods of the North American Pacific Coast, Alaska to California. The guide book will be based on collections from 1955 to present. The format of the book will be the same as the New England guide

book, except that the descriptions and illustrations will be facing each other. It will be supplemented with keys having 2-3 characters per couplet. So far, there are 650 plates completed including 5 color plates. The Super Families and Families are presented in a phyletic classification and a pragmatic classification is used for the Genera and Species. It is hoped that whale parasites and hosts will be included. After discussing the guide book Dr. Staude reviewed his Ph.D. Dissertation on *Paramoera*. There are nine species on our coast, Alaska to Baja CA. Included in the newsletter is a key from his Ph.D. Dissertation, Systematics and Behavioral Ecology of the Amphipod Genus *Paramoera* Miers (Gammaridea: Eusiroidea: Pontogeneiidae) in the Eastern North Pacific. The species names and descriptions are in preparation. These manuscript names should not be used until published.

In the afternoon Dr. Jodi Martin, Los Angeles County Museum of Natural History, presented a new species of *Halice* found at the Venture hydrothermal fields along the East Pacific Rise. He showed a video taken on one of *Alvin's* dives displaying a swarm of these amphipods. He also showed SEM photos, which revealed that the amphipod is covered with scales and sensory setae. If anyone is interested in more information there is an article in Nature Vol. 358, 2 July 1992.

FUTURE MEETINGS

The Anthurid Isopod meeting originally planned for January has been postponed to June. The meeting on January 11, 1992 will again address the master species list of the southern California benthos. We will break up into small groups to address the list phyletically. A list will be compiled of duplicate literature possessed by SCAMIT and a decision will be made on what to do with it. The meeting will be held at the Cabrillo Marine Museum, San Pedro, California.

The February 8, 1993 meeting will be on Brachiopods with Dr. Eric Hochberg and Bivalve Molluscs with Paul Scott of the Santa Barbara Museum of Natural History. It will be held at the Santa Barbara Museum of Natural History. Directions to the museum and information about nearby hotels will be included in the next newsletter.

SCAMIT OFFICERS:

If you need any other information concerning SCAMIT please feel free to contact any of the officers.

President	Ron Velarde	(619)692-4903
Vice-President	Larry Lovell	(619)945-1608
Secretary	Diane O'Donohue	(619)692-4901
Treasurer	Ann Dalkey	(310)648-5611



From: Staude, C. P. 1986. Systematics and Behavioral Ecology of the Amphipod Genus Paramoera Miers (Gammaridea: Eusiroidea: Pontogeneiidae) in the Eastern North Pacific. Ph.D. Dissertation, University of Washington, Seattle. 325 pp.

APPENDIX A

Key to pontogeneiid genera occurring on Washington gravel beaches

1. Rostrum vestigial; gnathopods with posterior setae arranged in comblike clusters; telson with apical spines or setae

Paramoera

Rostrum produced, although somewhat obscured by the first antennae; gnathopods with setae in poorly aligned clusters; telson without apical spines or setae

2

2. Eye black (in alcohol); antenna 1 with an articulate 1-segmented accessory flagellum; posterior margin of coxae 1-3 with distinct spines; inner ramus of uropod 2 longer than the peduncle

Accedomoera

Eye brown or black (in alcohol); without an articulated accessory flagellum, but with a platelike extension of the distomedial margin of segment 3 of antenna 1; posterior margin of coxae 1-3 with spines vestigial or absent; inner ramus of uropod 2 not longer than the peduncle

Pontogeneia

Key to subadult Paramoera occurring on Washington gravel beaches

1. Peduncle of antenna 1 with many long setae (these reduced in mature males); gland cone with at least 1 long seta; uropod 3 with plumose setae 2

Peduncle of antenna 1 with short setae or with a few long setae; gland cone without long setae; uropod 3 without plumose setae 5

2. Urosome with 1 or 2 distinct dorsal bosses; subapical spine of inner ramus of uropods 1 and 2 enlarged; outer ramus of uropod 2 distinctly shorter than the inner ramus; apical setae of telson short 3

Dorsal margins of urosomites straight or slightly convex; subapical spine of inner ramus of uropods 1 and 2 not enlarged; outer ramus of uropod 2 subequal to or longer than inner ramus; apical setae of telson long 4

3. Inferior antennal sinus with a deep narrow cleft; posterior margin of segment 2 of peraeopods 5-7 with deep acute notches (becoming more distinct with maturity); distal peduncular spine of uropod 2 nearly 3 times as large as the proximal spines

Paramoera serrata n. sp.*

Posterior antennal sinus with a shallow wide cleft; posterior margin of segment 2 of peraeopods 5-7 with shallow right-angled notches; distal peduncular spine of uropod 2 not more than twice

* formal name and description in preparation

as long as the proximal spines

P. mohri J.L. Barnard, 1952

4. Segment 1 of antenna 1 with a small spine at the distoventral corner; segment 3 of antenna 2 with a small spine at the distodorsal corner in addition to distoventral spines; posterior margin of segment 6 of peraeopods 3 and 4 with some spines in pairs; uropod 2 with outer ramus slightly shorter than the inner ramus; rami of uropod 3 of subequal length

P. columbiana Bousfield, 1958

Segment 1 of antenna 1 without spines; segment 3 of antenna 2 with small spines only at the distoventral corner; posterior margin of peraeopods 3 and 4 with only single spines; uropod 2 with outer ramus distinctly longer than inner ramus; inner ramus of uropod 3 shorter than outer ramus (lengthening with maturity)

P. suchaneki n. sp.*

5. Eye moderate to large; gland cone with a single short seta; segment 5 of gnathopod 2 not shorter than segment 6; telson with a single moderate seta near the apex of each lobe

P. bousfieldi n. sp.*

Eye small; gland cone with 1-2 crooked spines; segment 5 of gnathopod 2 shorter than segment 6; telson with several long apical setae

P. (Rhithromoera) bucki n. sp.*

*femal names and descriptions in preparation

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