



**Southern California Association of
Marine Invertebrate Taxonomists**

3720 Stephen White Drive
San Pedro, California 90731

September 1989

Vol. 8, No. 5

NEXT MEETING: Paraonidae (Polychaeta: Annelida) Workshop

GUEST SPEAKER: Larry Lovell, vice-president of SCAMIT and private consultant

DATE: Tuesday, October 10, 1989, 9:30 AM

LOCATION: Marine Ecological Consultants (MEC)
2433 Impala Drive
Carlsbad, CA 92009

MINUTES FROM MEETING ON SEPTEMBER 11, 1989

Pycnogonid Workshop: Don Cadien, Los Angeles County Sanitation Districts, and Tony Phillips and Mas Dojiri, Hyperion Treatment Plant, hosted a pycnogonid workshop at the Cabrillo Marine Museum on 11 September 1989. Four work stations were set up with dissecting microscopes with several species of southern California Pycnogonida at each station. The specimens examined were provided by Battelle (Ventura), Cabrillo Marine Museum, County Sanitation Districts of Los Angeles, Hyperion Treatment Plant, Los Angeles County Museum of Natural History, Marine Biological Consultants, Marine Ecological Consultants, Moss Landing Marine Laboratory, and Point Loma (City of San Diego).

A list of southern California pycnogonids reported by various SCAMIT agencies was compiled by Tony Phillips, and keys to families, genera, and species of pycnogonids were modified from the literature by Mas Dojiri. Don Cadien provided an introduction to the Pycnogonida as well as a list of current synonymies. In addition, figures for each species presented in the keys were included. A copy of this compilation of material was given to each workshop participant. Specimens were then identified to species using the keys. Several

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problems were immediately recognized with this first draft of the keys, particularly in the first couplet of the family key and the Anoplodactylus key in general. These problems were inherited from the original literature from which the keys were obtained, or were due to inadequate original descriptions of the various species. A second draft, incorporating the corrections suggested by the workshop participants, is now available upon request from the secretary, Mas Dojiri. Please be warned that this second draft will still undoubtedly have some problems and errors associated with it. The keys to the species of Achelia, Tanystylum, and Ammothella have not yet been critically tested. Any corrections to the keys should be sent to:

Dr. Mas Dojiri
Biology Laboratory
Hyperion Treatment Plant
12000 Vista del Mar
Playa del Rey, CA
90293

Roxanne Jordan, Moss Landing Marine Laboratory, brought a manuscript written by C. Allan Child, Smithsonian Institution, in which a new species of the pycnogonid genus Prototrygaeus was described; the species is to be named in honor of Ms. Jordan. She also had specimens of this new species with her at the workshop; the new species is identical to Genus A sp. A of SCAMIT. We will now have a taxonomic name to pin on this former SCAMIT provisional new species. The manuscript is submitted to the Proceedings of the Biological Society of Washington. Roxanne also provided us with a literature citation that includes a recent bibliography of the Pycnogonida. It is as follows:

Arnaud, F. and R.N. Bamber. 1987. In: Advances in Marine Biology. Volume 24, 95 pages.

Tony Phillips examined a publication by Hong and Kim (1987) in which Decachela dogieli was redescribed, and confirmed that Decachela sp A of SCAMIT was not identifiable with this species, but was indeed a new species.

Future SCAMIT Meetings: Ron Velarde discussed the upcoming SCAMIT meetings and workshops. They are listed below:

10 OCT: Paraonidae (Polychaeta)	Larry Lovell	MEC, Carlsbad
13 NOV: Sampling Standards	SCAMIT	Cabrillo
8 DEC: Holothuroidea	Mary Bergen	Cabrillo
9 DEC: SCAMIT X-mas party	5-10 PM	Cabrillo

Cumacean Workshop: The cumacean workshop to be presented by Dr. Les Watling and originally planned for October has been postponed until either January or February 1990.

Sampling Standards: The National Academy of Sciences is interested in standardizing sampling techniques. SCCWRP apparently conducted a survey concerning the various sampling techniques used by several

southern California agencies. Using SCCWRP's survey as a starting point, SCAMIT now plans to examine the recent techniques employed by the agencies. To this end, SCAMIT will host the "Sampling Standards" meeting on 13 November 1989. All agencies and consulting firms are invited to attend. A recommendation for the standardization will be written and presented to the National Academy of Sciences from SCAMIT.

Holothuroidea Workshop: This SCAMIT workshop will be hosted by Mary Bergen on 8 December. It is scheduled to coincide with the SCAMIT Christmas party, thus enabling Mary to also attend the Christmas festivities. Don Cadien requests that slides of holothuroid ossicles and tube feet be made prior to the workshop.

Infaunal Trophic Index Recommendations: SCAMIT and the Orange County Sanitation Districts hosted a discussion of the ITI on 29 March 1989. Several organizations were represented at this meeting, and each representative was given an opportunity to explain how he/she interpreted and calculated this index. An ad hoc committee meeting comprised of representatives from interested agencies met at the Orange County Sanitation Districts conference room on 1 June 1989. A final SCAMIT list of recommendations pertaining to the ITI is presently being written by Ron Velarde and Larry Lovell. Hopefully, a completed version will be done by the end of September.

SCAMIT Provisional New Species Project: Mas updated his recently proposed project concerning the descriptions of provisional new species and an illustrated guide to the marine invertebrates of southern California. He still encourages SCAMIT members to publish their provisional new species. If members need help in the taxonomic descriptions or review of the final manuscript, Mas can give interested SCAMIT members the names and addresses of taxonomists who have agreed to help SCAMIT. Also Dr. Joel Martin, L.A. County Museum of Natural History, Dr. Roy Kropp, Battelle (Ventura), and Mas have all agreed to act as unofficial reviewers of the manuscripts (i.e. reviewers before official submission to a journal). Additionally, if any SCAMIT member is having problems with the procedure in taxonomic investigations and steps in publication, any of the three people above are willing to help and answer questions.

The second part of the project, the illustrated guide, has been placed on the back-burner. Apparently, the MMS/Santa Maria Basin project may overlap with the second part of the proposed project. Although the two should complement each other more than conflict, the amount of overlap is unknown. In addition, there is a conflict in manpower (and womanpower) since many of the scientists to be used in the illustrated guide will be used by the MMS project.

Parasitic Copepoda: Dr. Ju-Shey Ho, California State University, Long Beach, and Mas Dojiri are planning an investigation of copepods parasitic on polychaetes. They already have collections from Hyperion, Orange County, and Pt. Loma. There are some interesting copepods in part of the collection, but some species are represented by a single specimen. Mas is also currently conducting some research on copepods



parasitic on southern California fishes. If you find any specimens of parasitic copepods on polychaetes or fishes, please send them along with available data to Mas. No additional specimens of the eye parasite, Phrixocephalus, on sanddabs are needed.

Original Volumes of the Danish Ingolf Expedition: Don Cadien is now taking orders for originals of the various volumes of Steenstrupia's Danish Ingolf Expedition. The present currency conversion rate is 7.5 kroner to the US dollar. Don has handed out a list of available reprints; make your orders directly with him.

New Parking Permits at Cabrillo Marine Museum: Cathy Crouch, Curator of Marine Invertebrates, Cabrillo Marine Museum, notified the pycnogonid workshop participants that new parking permits will be issued for the Museum's parking lot. She took note of what agencies needed the permits and promised to send them through the mail.

New Address for Sue Garner: Sue Garner, formerly of MEC, recently accepted a new position in order to work with Dr. George (Buzz) Wilson, at Scripps Institution of Oceanography. She will still be consulting for MEC in her "off hours". Congratulations and good luck Sue! Her new address is:

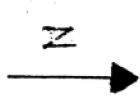
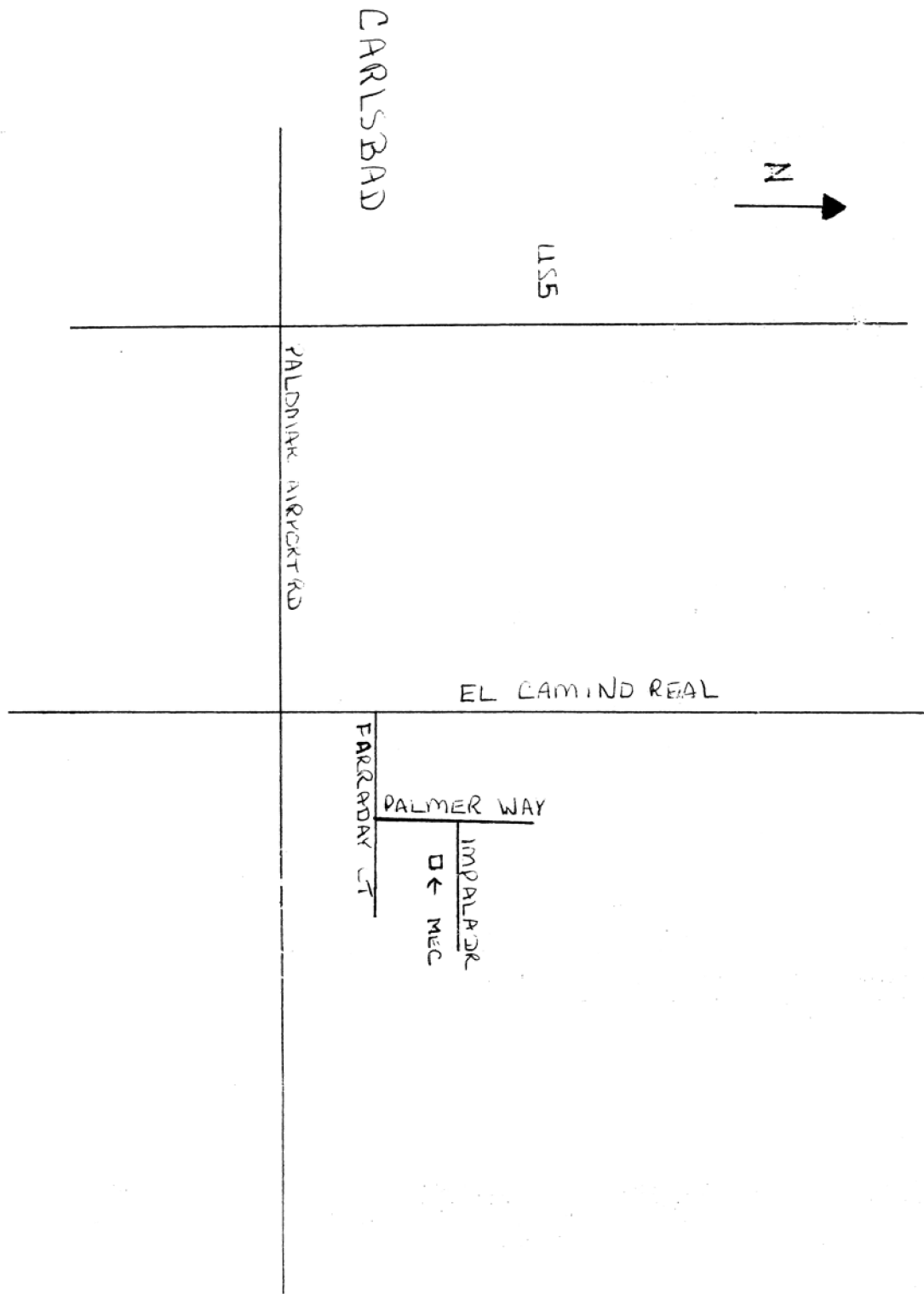
Marine Biology Research Division
A-002
Scripps Institution of Oceanography
La Jolla, CA 92093-0202
(619) 534-6692

SCAMIT Picnic: The picnic was mildly successful. Those of us who attended had a great time. Unfortunately, not many of us attended. It may be time to reevaluate the picnic. The question arises "Should we continue to hold these picnics?" Larry Lovell, vice-president of SCAMIT, continues to bust his anatomical lower-end in order to hold this extravaganza. It is a lot of work for so few people. Any suggestions? Please send them to:

Larry Lovell
1036 Buena Vista Drive
Vista, CA
92083

11th International Symposium on Ostracoda: The International Symposium on Ostracoda will be held in Warrnambool, Victoria in late July - early August 1991. See attached circular for details.

Seminars: Attached to this current newsletter are two circulars, one from California State University, Long Beach, and the other from the Natural History Museum of Los Angeles County, announcing their seminars to be presented in the Fall of 1989. All interested persons are invited to attend.



MAP TO MARINE ECOLOGICAL CONSULTANTS (MEC)

11th International Symposium on Ostracoda
OSTRACODA IN THE EARTH AND LIFE SCIENCES
Warrnambool, Victoria, Australia
late July -- early August 1991
FIRST CIRCULAR

Venue and Access. The Symposium will be held at the Warrnambool Institute of Advanced Education (W.I.A.E.) situated on the southern coastline of Victoria.

Warrnambool is the largest coastal city between Melbourne and Adelaide with easy and rapid access to these centres and the rest of Australia by rail, road and air. It is a notable tourist resort set in rich farming country and near large state owned forests. The Institute is the major regional provider of tertiary education and has all the facilities necessary for running conferences.

Theme and Timing. The major theme of the conference -- Ostracoda in the Earth and Life Sciences -- has been chosen to highlight the diverse applications of Ostracoda to problems in geology and biology.

Finalised dates of the symposium depend on the Institute schedule for 1991. They will be advised in the Second Circular.

Schedule and Publication. Details will be advised in the Second Circular.

Field Trips. Palaeozoic (Ordovician to Devonian) central N.S.W.; Mesozoic (Jurassic and Cretaceous) W.A.; Cainozoic (Eocene to Miocene, Pliocene) Vict.; salt lakes, Coorong area, S.A.; Recent marine, southeastern Australian coastline; Cainozoic, Mesozoic New Zealand (Kerry Swanson). Persons wishing to visit the Great Barrier Reef will be referred to Australian tour operators.

Poster Display. A special laboratory will be set aside at the Institute for posters.

Sample Exchange. Iradj Yassini will be the organiser. Interested persons should advise us when mailing the accompanying registration form.

Treatise Committee Meetings. Times will be arranged following correspondence with the chairpersons responsible for the Palaeozoic, post-Palaeozoic, and Freshwater groups.

Accommodation. A range of accommodations will be available either through the Institute or locally (motels, caravan park) on a twin-share or single basis. A deposit of A\$50 is required for booking accommodation. This will be forfeited if the accommodation is not taken up. Further details, including family arrangements, will be advised in the Second Circular.

Family Outings. The spectacular Great Ocean Road-coastline; Portland, earliest settlement in Victoria; Warrnambool Art Gallery and Maritime Museum; Tower Hill crater excursion; Sovereign Hill Gold Mine, Ballarat.

Useful Information. The weather is likely to be rather cold (frost or snow unlikely) and may be wet; as July/August are austral winter months. You will require a visa to enter Australia (New Zealanders excepted). The Australian dollar (A\$) will likely be worth 75--80 US cents.

Fees. Registration A\$150 (early), A\$200 (late); students and unemployed persons A\$50 (early), A\$65 (late); family members no charge; accommodation deposit A\$50; field trip deposit A\$50; symposium dinner A\$25. Registration includes the cost of the symposium volume; cancellation fee for registration is A\$25.

[Ref.IS091B]

QANTAS THE CONVENTION PROFESSIONALS

QANTAS is the Official International Carrier for the 11th I.S.O.

11TH INTERNATIONAL SYMPOSIUM ON OSTRACODA
Ostracoda in the Earth and Life Sciences
 WARRNAMBOOL, VICTORIA
 late July -- early August 1991

REGISTRATION

Name: Title: Prof./Dr./Mr./Mrs/Ms
 Address:

 Telephone: Telex: Fax:

Is it your intention to attend the 11th I.S.O.? Circle below.

YES PROBABLY MAYBE NO
 I will/will not be accompanied by my family (spouse, children).

I intend/do not intend to deliver a paper/poster.

Proposed title of paper/poster:

Suggestion(s) for session topic(s):

ACCOMMODATION (Indicate preference; a deposit of A\$50 is required).

1. Arranged through the Institute (much cheaper than motel).
2. Motel.
3. Caravan park or Private.

FIELD TRIPS (Indicate preferences; a deposit of A\$50 per field trip is required).

1. Palaeozoic (Ordovician to Devonian) central New South Wales.
2. Mesozoic (Jurassic and Cretaceous) Western Australia.
3. Cainozoic marine (Eoc., Mioc., Plio- Pleist.) Victoria.
4. Lacustrine (fresh and salt lakes, Coorong; Recent and Quaternary) South Australia and Victoria.
5. Recent marine, southeastern Australian coastline.
6. Great Barrier Reef (organised by tour operators).
7. Cainozoic and Mesozoic New Zealand.

FEES (circle choices).

Registration (Employed persons)	A\$150	Late fee*	A\$200
(Students and unemployed persons)	A\$ 50		A\$ 65
Accommodation deposit	A\$ 50		
Field trip deposit	A\$ 50		
Symposium dinner	<u>A\$ 25</u>		

Total A\$ * after 30 June 1990

Please write all cheques/bank drafts (in Australian dollars) for the **11th I.S.O., 1991** and mail them to: Dr K.G. McKenzie (Treasurer, 1991 I.S.O.) 'YUGEN' P.O. Box 759 WAGGA WAGGA N.S.W. 2650 AUSTRALIA.

SECRETARIAT. Dr P.J.Jones Bureau of Mineral Resources P.O. Box 378 CANBERRA CITY A.C.T. 2601 AUSTRALIA.
 Telephone (062)499737 Telex AA62109 Fax (062)488178

Final date for early registration, deposits on accommodation and field trips 30 June, 1990, after which the Second Circular will be posted to those who have responded to this circular.

Hope to see you in 1991 -- Organising Committee [Ref.ISO91A]

NATURAL HISTORY MUSEUM
of Los Angeles County

PLEASE POST/CIRCULATE

900 Exposition Boulevard
Los Angeles, California 90007

NATURAL HISTORY MUSEUM RESEARCH SEMINARS

SEPTEMBER - DECEMBER 1989

- 28 SEPTEMBER DAPHNE FAUTIN - California Academy of Sciences
THE ANEMONE-CLOWNFISH SYMBIOSIS
- 5 OCTOBER NICHOLAS D. HOLLAND - Scripps Institution of Oceanography
THE STRUCTURE AND BIOLOGY OF A SESSILE STALKLESS CRINOID
(Holopus rangii)
- 11 OCTOBER THOMAS A. EBERT - San Diego State University
THE BIOLOGY OF PURPLE SEA URCHINS: ADAPTIVE AND NONADAPTIVE
CHANGES FROM MEXICO TO CALIFORNIA
- 19 OCTOBER DAVID TAB RASMUSSEN - University of California-Los Angeles
EARLY TERTIARY HYRAXES FROM EGYPT, AND THE EVOLUTION OF THE
ORDER HYRACOIDEA
- 26 OCTOBER WILLIAM F. PERRIN - National Marine Fisheries Service
THE PLIGHT OF THE SMALL CETACEANS
- 2 NOVEMBER HENRY W. CHANEY - Santa Barbara Museum of Natural History
THALAMOPORELLIDAE: SYSTEMATIC DISCOVERIES IN A CHEILOSTOME
BRYOZOAN FAMILY
- 9 NOVEMBER FREDERICK R. SCHRAM - San Diego Natural History Museum
LATEST DISCOVERIES CONCERNING WEIRD COAL AGE CRUSTACEANS
- 16 NOVEMBER HOWARD J. SHORR - Reader, Huntington Library, and
L. A. Unified School District
RACE PREJUDICE IS NOT INBORN - IT IS LEARNED: THE
EXHIBITION CONTROVERSY AT THE LOS ANGELES MUSEUM OF
HISTORY, SCIENCE AND ART, 1950-1952
- 30 NOVEMBER DONALD J. REISH - California State University-Long Beach
EXPERIMENTAL ENVIRONMENTAL STUDIES WITH POLYCHAETOUS
ANNELIDS
- 7 DECEMBER BRIAN OBST - University of California-Los Angeles
TEMPEST IN A TEACUP: THE ECONOMICS OF SPINNING IN PHALAROPES
- 14 DECEMBER ANN SAKAI - University of California-Irvine
EVOLUTION OF DIOECY IN THE ENDEMIC HAWAIIAN GENUS Schiedea
(CARYOPHYLLACEAE)

ALL SEMINARS ARE AT 3:00 PM
Times Mirror Room - Natural History Museum
--ALL INTERESTED PERSONS ARE INVITED TO ATTEND--



Seminars in Biology

FALL 1989

- September 7 **HISTORICAL CONTAMINATION OF THE PALOS VERDES SHELF:
RECONSTRUCTION USING SEDIMENT GEOCHEMISTRY.**
Dr. R. P. Eaganhouse
Senior Environmental Specialist
Southern California Coastal Water Research Project
- September 14 **PHYLOGENY AND THE EVOLUTION OF CLAM SHRIMP.**
Dr. J. W. Martin, Curator
Los Angeles County Museum of Natural History
- September 21 **AN OVERVIEW OF THE STATUS OF LYME DISEASE IN CALIFORNIA.**
Dr. J. L. Webb, Specialist
Orange County Vector Control
- September 28 **BLEACHING AND THE POPULATION DENSITY OF ZOOANTHELLAE IN
REEF BUILDING CORALS.**
Dr. O. Hoegh-Guldberg
Postdoctoral Research Fellow
University of Southern California
- October 5 **MECHANISM OF PHYTOPLANKTON BLOOM FORMATION:
ENVIRONMENTAL REGULATION AND MOLECULAR RESPONSE.**
Dr. R. C. Zimmerman, Research Associate
Hopkins Marine Station
- October 12 **THE HYDROTHERMAL FAUNA, A GLIMPSE OF ANTIQUITY? NEW AND
PRIMITIVE BARNACLES FROM THE WESTERN PACIFIC.**
Dr. W. A. Newman, Professor
Scripps Institution of Oceanography
- October 19 **ORIGINS OF MEDICINAL PLANT USE: a PHARMACOPOEIA OF THE
APES.**
Dr. E. Rodriguez, Professor
University of California, Irvine
(A MARC/MBRS sponsored seminar)
- October 26 **SILK AND PHEROMONES: THE ECOLOGY OF MALACOSOMA
CALIFORNICUM FRAGILE, A SUBSPECIES OF THE WESTERN TENT
CATERPILLAR.**
Mr. W. P. Weaver Jr., Doctoral Candidate
University of California, Los Angeles
- November 2 **TO BE ANNOUNCED**
- November 9 **THE SEASONAL PHOTOPHYSIOLOGY OF COLPOMENIA PEREGRINA
(PHAEOPHYTA) ACROSS A VERTICAL DISTRIBUTION GRADIENT AT
CATALINA ISLAND.**
Dr. J. L. Matta, Postdoctoral Research Fellow
University of California, Santa Barbara
- November 16 **THE AMAZON BASIN: BACKGROUND FOR ARTHROPOD DIVERSITY.**
Dr. C. L. Hoag
Chief Curator of Entomology
Los Angeles County Museum of Natural History
- November 30 **ECOLOGICAL STUDIES OF HETEROPODS FROM HAWAII.**
Dr. R. R. Seapy, Professor
California State University, Fullerton
- December 7 **METABOLIC ADAPTATIONS BY INVERTEBRATE LARVAE FOR NUTRIENT
ACQUISITION FROM SEAWATER**
Dr. D. T. Manahan, Associate Professor
University of Southern California

THURSDAYS

SCL-48

4:00 PM

Co-sponsored by the Biology Students Association, Associated Student, and the
Biology Advisory Council



**Southern California Association of
Marine Invertebrate Taxonomists**

3720 Stephen White Drive
San Pedro, California 90731

October 1989

Vol. 8, No. 6

NEXT MEETING: Sampling Standards Meeting

GUEST SPEAKERS: Representatives of SCAMIT agencies

DATE: Monday, November 13, 1989, 9:30 AM

LOCATION: Cabrillo Marine Museum
3720 Stephen White Drive
San Pedro, CA 92009

MINUTES FROM MEETING ON OCTOBER 10, 1989

Paraonidae Workshop: Larry Lovell, private consultant and Vice-president of SCAMIT, hosted a paraonid (Polychaeta) workshop on 10 October 1989 at the home of MEC (Marine Ecological Consultants) in Carlsbad. Four work stations were set up with dissecting and compound microscopes with 14 species of commonly occurring southern California paraonids at each station. Copies of a key to the genera were provided by Larry. It was discovered at the workshop that counts of branchia are not as taxonomically useful as originally thought. Their range is variable with age: increased number of branchia directly correlated with increased age. In addition, branchial shape is variable; consequently, this character was not included in the key. The most reliable taxonomic character is the modified setae, but appropriate body segments need to be intact for the neuropodial setae. These generally begin ten setigers posterior to the end of the branchia. The workshop was well received by the participants. The key to the genera has been submitted for publication in the Proceedings of the Third International Conference held at California State University, Long Beach during 6-12 August 1989. It will be available for distribution after publication. SCAMIT thanks Larry

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