



**Southern California Association of
Marine Invertebrate Taxonomists**

3720 Stephen White Drive
San Pedro, California 90731

March 1990

Vol. 8, No. 11

NEXT MEETING: Polychaete Open Forum

GUEST SPEAKERS: SCAMIT Members

DATE: Monday, 9 April 1990, 9:30 AM

LOCATION: Allan Hancock Foundation, Room 30
University of Southern California

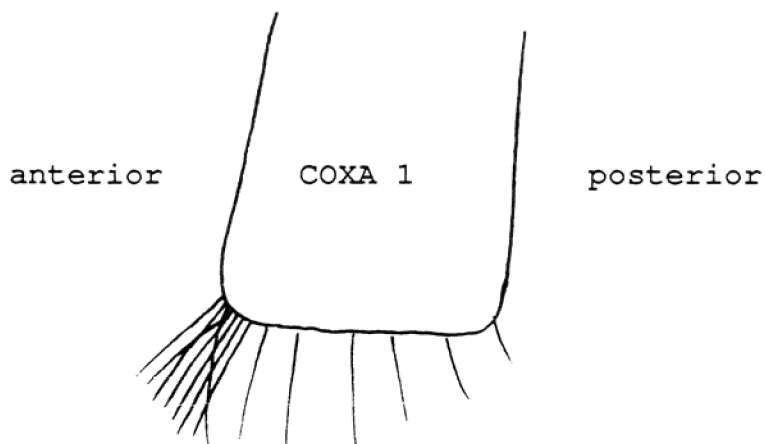
MINUTES FROM MEETING ON MARCH 12, 1990

Photis Workshop: The attendance at this workshop was extremely low; this situation made the workshop less productive than originally envisioned. The purpose of this workshop was to examine problematic species of Photis and to discuss possible characters that could be used to identify these species. In addition, several of the new species needed to be verified as such, and steps to provide voucher sheets for them needed to be taken. Due to such a poor attendance, these goals were not met. However, the participating members did examine in detail five species of Photis, and briefly discussed an additional one.

1) Doug Diener, MEC Analytical Systems, Inc., presented specimens tentatively identified as Photis sp. C of Diener which was collected off Orange County and station V6 of Hyperion. One of the characters noted at this workshop is a group of tightly bunched setae on the anterodistal corner of coxa 1 (see figure).

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The SCAMIT newsletter is not deemed to be a valid publication
for formal taxonomic purposes.



Notes of this species from Barnard's Amphipod Workshop (6 June 1989) are reprinted below.

Photis sp. C. of Diener was verified as a new species of Photis from 50-60 m off Orange County. Doug recognizes this species most easily by its blotchy pigment and the extremely short first article of antenna 1, which barely exceeds the ocular lobe, and is subequal to article 1 of antenna 2. No males were available, but the female was quite distinct. G1 had a slight step in the palm, which was also relatively long and straight. There is a deep and nearly right angled palmar excavation in G2. This may be the stepped palm female that Carol Paquette has been noticing in nearshore (90 ft) samples from Goleta. Dr. Barnard commented that the species appeared to be somewhat neotenic in having sparsely setose coxae, but fairly apomorphic palmar structure. This new species is apparently similar in appearance to P. spinicarpa except P. sp. C does not have enough setules on the coxae and the G1 in the female is more deeply notched or incised on the palm.

2) Specimens labelled as Photis cf. parvidons by Diener were then examined. The males of these specimens were identified by Carol Paquette and Mas Dojiri as P. brevipes. The females in this lot, however, have a mixture of characters of couplet 3 in Conlan's key. No conclusions were reached on these females.

3) Carol Paquette, MBC Applied Environmental Sciences, presented Photis sp. A of MBC (the "suitcase" Photis) which is a very small species (gravid at 3 mm) with extremely long coxae. The specimens

are known from Goleta (90 ft) and ORCOSAN (1973?, 108? ft). All known specimens are female. Although a conclusion on the identification of these specimens was not reached, they look similar to P. fishchmanni Gurjanova (reported from Alaska); however, the gnathopods are different, as is the shape of coxa 5 and the density of the coxal setation (see illustrations). It keys to P. lacia in Conlan's Photis female key. The gnathopods are similar to those of female P. lacia, but the length and shape of the coxae are very different.

4) Photis sp. B of MBC is similar to P. macrotica except the eye in the former is smaller and the eyelobe is pointed (acuminate). Notes of this species from Barnard's Amphipod Workshop are reprinted below:

Photis sp. B. of MBC is apparently a valid new species with strong affinities to P. viuda. The specimen keys out to P. viuda using Conlan's key, but Photis sp. B has a conspicuous hump on the inner margin of the dactyl of G2. It's possible that this is a juvenile P. viuda; however, the presence of this character in a juvenile and its absence in the adult would be a unique and unexpected phenomenon. In addition, the type locality lists the depth at 218 fm for P. viuda, while P. sp. B was collected from algae in shallow water (85-95 ft). It is most likely a new species. See species description in SCAMIT Newsletter Vol. 7 No. 9. Note particularly the shape of the ocular lobe, the simple oblique palms of the female G1, and the double acclivities in the male G2 palm.

5) Photis sp. B of Myers collected from Santa Monica Bay was examined. Notes of this species from Barnard's Amphipod Workshop are reprinted below.

Photis sp. B of Myers, apparently a valid new species from a sandy substrate off Pt. Loma in 210 ft. The problem with this identification is that G2 of this specimen (male) is more Podoceropsis-like, but uropod 3 is biramous. The female keys out to P. macinerneyi using Conlan's key. The conclusion is that it is a new species.

6) Barnard (1962) has suggested that specimens of Photis elephantis may actually have been P. conchicola that were infected by parasites; this possibility was also mentioned in Barnard's Amphipod Workshop Notes, 1988.

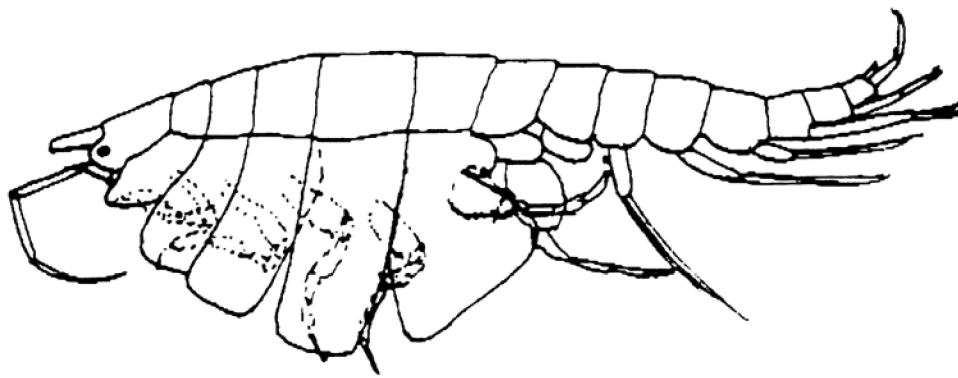


Polychaete Open Forum: The next SCAMIT meeting will concentrate on the problematic polychaete groups. A discussion on future polychaete workshops will be held in the morning, and polychaetes will be examined in the afternoon. All interested SCAMIT members are invited to attend, and are encouraged to bring their "problem" animals.

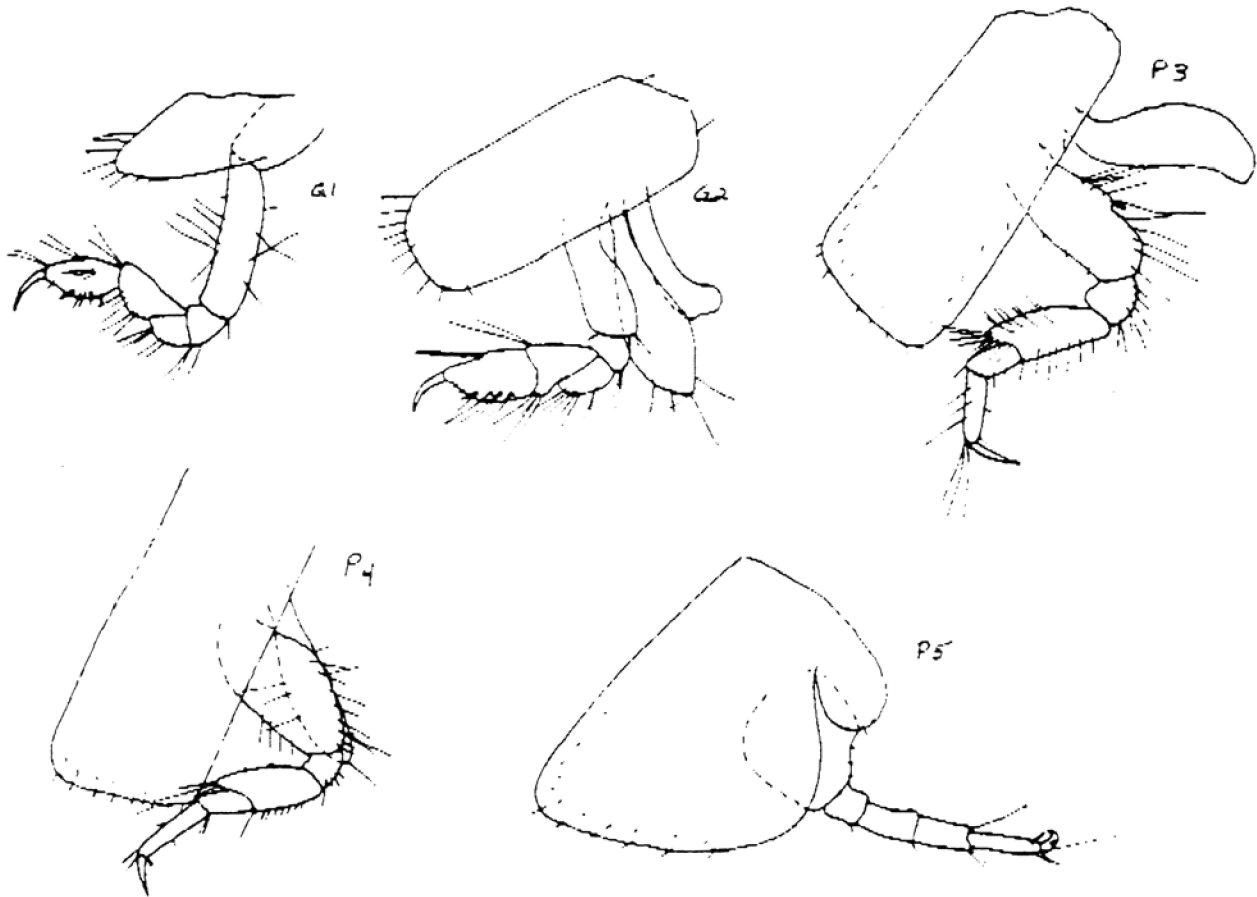
Ballots for New SCAMIT Officers: Completed ballots should be sent directly to the Vice-President Larry Lovell by 10 April 1990. Larry's address is provided on the ballot.

Seminars: Attached to the current newsletter is a circular from the Natural History Museum of Los Angeles County announcing the seminars to be presented from March through May 1990. All interested persons are invited to attend.

Earth Day at CMM: The Cabrillo Marine Museum will participate in the observance of Earth Day on Sunday, 22 April 1990. See attached notice for more information. The CMM also is hosting a few evening seminars. Unfortunately, two seminars have already been presented, but the third one concerning estuarine ecology will be presented on 21 April 1990. Please see attached form for details of this seminar.



♀ 2.8 mm



Photis sp. A of MBC (the "suitcase" Photis)

Illustrated By Carol Paquette, MBC Applied Environmental Sciences

PLEASE POST/CIRCULATE

900 Exposition Boulevard
Los Angeles, California 90007

CHANGE OF DATE
SEMINAR RESCHEDULED
NOTE NEW DATE:
NATURAL HISTORY MUSEUM - LOS ANGELES COUNTY
RESEARCH SEMINAR

PHYLOGENY & BIOGEOGRAPHY OF NORTH PACIFIC FISHES:
THE BAY GOBIES

CAMM C. SWIFT
LACM/Ichthyology

3:00 PM

→ WEDNESDAY - APRIL 4, 1990 ←
Times Mirror Room (Ground Floor)
Natural History Museum of Los Angeles County
900 Exposition Boulevard, Los Angeles, California

COFFEE WILL BE AVAILABLE IN THE SEMINAR ROOM
AT 2:45 PM.

--ALL INTERESTED PERSONS ARE INVITED TO ATTEND--



PLEASE POST/CIRCULATE

900 Exposition Boulevard
Los Angeles, California 90007

NATURAL HISTORY MUSEUM RESEARCH SEMINARS

MARCH - MAY 1990

- 22 MARCH SARAH B. GEORGE - LACM/Mammalogy
THE FOX AND THE MOUSE: EVOLUTION & BIOGEOGRAPHY
OF CHANNEL ISLAND MAMMALS
- 28 MARCH ANTHONY ALAN SHELTON - Museum of Mankind (British Museum)
(Wednesday) and Smithsonian Institution
THE LIFE AND DEATH OF GODS: THE AESTHETICS OF EMPOWERMENT
- 5 APRIL CAMM C. SWIFT - LACM/Ichthyology
PHYLOGENY & BIOGEOGRAPHY OF NORTH PACIFIC FISHES:
THE BAY GOBIES
- 11 APRIL WILLIAM J. SCHOPF - University of California-Los Angeles
(Wednesday) THE RISE AND FALL OF THE PROTEROZOIC BIOSPHERE
- 19 APRIL E. LEO LYMAN - Victor Valley College & CSU San Bernardino
MORMON SAN BERNARDINO: IMPACT ON SOUTHERN
CALIFORNIA IN THE 1850's
- 26 APRIL SUSANNE LAWRENZ-MILLER - Cabrillo Marine Museum
WHERE HAVE ALL THE SEA-STARS GONE?
- 3 MAY MARGARET A. NEIGHBORS - LACM/Ichthyology
BUOYANCY MECHANISMS OF LANTERNFISHES FROM WATERS
OFF SOUTHERN CALIFORNIA
- 9 MAY ROBERT C. CARPENTER - Cal State University-Northridge
(Wednesday) HERBIVORE INDUCED DISTURBANCE, HYDRODYNAMICS, AND
Boardroom THE METABOLISM OF CORAL REEF ALGAE
- 17 MAY LAWRENCE G. BARNES - LACM/Vertebrate Paleontology
THE PHYLOGENY OF OTARIID PINNIPEDS (SEA LIONS AND
WALRUSES)
- 24 MAY DOUGLAS WILLIAM BIEDENWEG - Chadwick School
VILLAINS OF THE FLOWER WORLD: THE CRAB SPIDERS
- 31 MAY JAY A. BISNO - LACM/Anthropology
WHAT'S NEW AT JERICHO: OLD LIGHTS REKINDLED

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



CMM CELEBRATES EARTH DAY

DISCOVERY FAIR

Cabrillo Marine Museum will take part in the world-wide observance of Earth Day 1990 on Sunday, April 22, with a number of environmentally aware activities and programs from noon until 5:00 pm.

CMM and local environmental groups will answer questions and distribute information in the courtyard, and there will be films in the auditorium. A "Discovery Center" will be set up in the classroom featuring hands-on examples of southern California sea life, and from 1:00 to 2:00 pm, museum naturalists will lead tours of Salinas de San Pedro, Cabrillo Marine Museum's man-made salt marsh.

Join Us April 22 and Support Your Earth !



3720 Stephen White Drive
San Pedro, CA 90731
213/548-7563 STOP 644A

Museum Hours:

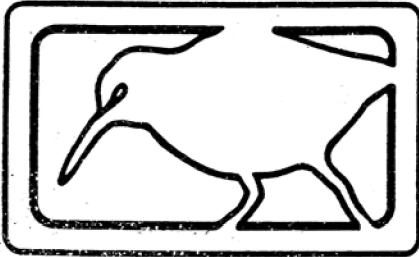
Tuesday thru Friday 12 noon to 5 pm.
Saturday and Sunday 10 am to 5 pm.
Open most holidays
Closed most Mondays,
Thanksgiving and Christmas.

Gift and Book Shop:

Open from 12 noon to 3:30 pm.

A facility of City of Los Angeles
Department of Recreation & Parks

C A L E N D A R



RICHARD KUST

FEBRUARY 3

7:30 PM

Birds of the Coast

Photographer Dick Kust sets up his cameras in Orange County where he is an active "birder" with Friends of Newport Bay and the Audubon Society. Native species as well as wintering visitors provide the focus for his slide presentation, which will include hints on bird recognition and identification.

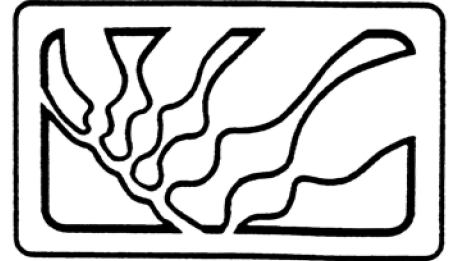
DR. STEVEN MURRAY

MARCH 24

7:30 PM

Seaweed and You

Prepare to be overwhelmed by the prosaic seaweed. Steven Murray of California State University-Fullerton will highlight the scientific attributes of these plentiful ocean plants in a presentation designed to educate and entertain. A follow-up visit to our temporary seaweed exhibit will demonstrate the fragile beauty of these surprisingly remarkable plants.



CHRIS NORDBY

APRIL 21

7:30 PM

Estuarine Ecology--The View From Below

As an introduction to CMM's April 22 "Earth Day" activities, Chris Nordby, Manager of the Pacific Estuarine Research Lab-San Diego State University, will offer a pictorial overview of the environmental changes occurring in our wetlands. From halibut to ghost shrimp, salt marsh inhabitants face a tenuous future, and Chris' research details the problems.

YES, I want to attend **Evening at CMM**, the Saturday series of programs at Cabrillo Marine Museum!

Please detach and send this form with your check or credit card information and a **stamped, self-addressed envelope** to: FRIENDS of CMM, 3720 Stephen White Drive, San Pedro, CA. 90731.

NAME _____

ADDRESS _____

CITY _____ ZIP _____ DAY PHONE _____

Series of Three Tickets	Amount
Member	\$10
Non-member	\$15

Individual Tickets	Amount
Richard Kust, February 3	
Member	\$4
Non-member	\$6

Steven Murray, March 24	
Member	\$4
Non-member	\$6

Chris Nordby, April 21	
Member	\$4
Non-member	\$6

Total Amount Enclosed \$ _____

AUDITORIUM SEATING IS LIMITED

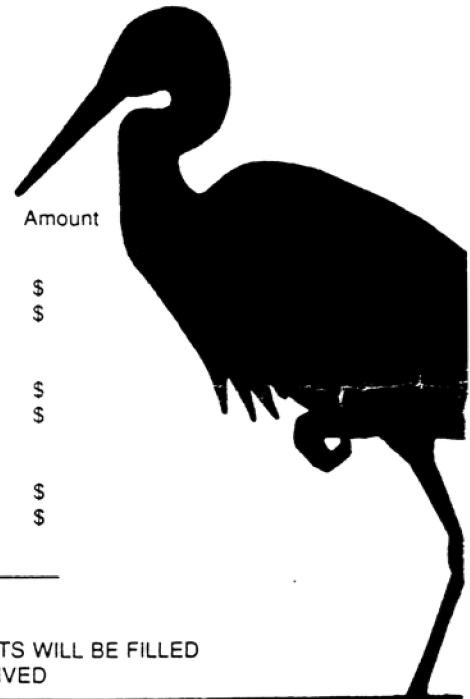
CIRCLE METHOD OF PAYMENT:

Check enclosed (Please make payable to FRIENDS of CMM)

Charge to (circle one): VISA Mastercard

Card # _____ Exp. Date _____

Signature _____



TICKET REQUESTS WILL BE FILLED
IN ORDER RECEIVED