

Rec 11/15/85



**Southern California Association of
Marine Invertebrate Taxonomists**

3720 Stephen White Drive
San Pedro, California 90731

October 1985

Vol. 4, No.7

Next Meeting:	November 18, 1985
Guest Speaker:	Dr. Burton Jones, Research Associate Professor, Biology, U.S.C. Inter- disciplinary Study of the Chemical and Physical Oceanography of White's Point.
Place:	Cabrillo Marine Museum 3720 Stephen White Drive San Pedro, Ca. 90731
Specimen Exchange Group:	Sipuncula and Echiura
Topic Taxonomic Group:	Terebellidae

MINUTES FROM OCTOBER, 21 1985

Our special guest speaker was Dr. John Garth of the Allan Hancock Foundation, U.S.C. He spoke about his participation with Captain Hancock and the Galapagos expeditions aboard the Velero III. This ship was 195 feet long, 31 feet wide at the beam and cruised at 13.5 knots. It had adequate fuel and water for each cruise to last two to three months with a minimum of port calls. Thirty-two people could be accommodated on board. Of these, usually fourteen were in the captains party and were provided private staterooms with bath. Also onboard were a photographer, chief operations officer, and a physician. The visiting scientists included individuals from major zoos, aquaria, and museums. In later cruises, many graduate students from U.S.C. participated. The Velero III had five 60 gallon aquaria for maintenance of live aquatic specimens. Two 26 foot launches and three 13 foot skiffs were available for shoreward excursions and landings.

Though busily collecting specimens pertaining to their interests on each cruise, the scientists had considerable exposure to entertainment. Each evening a trio of musicians would give a one hour concert. Captain Hancock played the cello, Dr. Garth played the grand piano, with a third usually playing the flute or violin. Music for these concerts commonly included selections from the composers Mozart, Haydn, and Liszt. Additional comfort was provided by an extensive cache of ice cream and regular use of Captain

Funds for this publication provided in part by
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Hancock's own salad dressing.

Much of the details for the scientific collecting during these expeditions are available, with photographs, in the Allan Hancock Foundation Pacific Expeditions, Volumes I, II, and III.

Two additional books containing further descriptions of the Galapagos expeditions are:

- 1) The Galapagos Affair by John Treherne, published by Jonathun Cape, 1983.
- 2) The Zest for Life or Waldo had a Pretty Good Life. The Life of Waldo LaSalle Schmitt. by R.E. Blackwelder, Published by Allen Press.

Recent publications of interest include the following:

POLYCHAETES FROM SCOTTISH WATERS	*NEW PUBLICATION
A Guide to Identification	
Part I Family Polynoidae, by Norman Tebble and Susan Chambers	
73 pages, illustrated.	
1982. ISBN 0 900733 26 8	4.00
*Part 2 Families Aphroditidae, Sigalionidae and Polyodontidae, by Susan Chambers. 38 pages, illustrated.	
February 1985. ISBN 0 900733 30 6	3.50
	plus postage

The first two parts of this work include complete descriptions of all 42 species of scale-worms found in Scottish waters. The keys to species accompanied by drawings of major taxonomic characters provide a useful guide to their identification in the laboratory.

Published by the Royal Scottish Museum
Chambers Street
Edinburgh EH1 1JF
Scotland

Orders should be addressed to the Administration Office.
Trade discount details available on request.

Upcoming meetings:

December 27-30 Western Society of Naturalists. Monterey, Ca.

December 26-31 American Society of Zoologists. Baltimore, Md.

The City of San Diego Point Loma Treatment Plant is taking applications for positions as biologists. See attached application. Place to apply:

Employment Information Center
City Administration Building Lobby
202 C Street
San Diego, Ca. 92101
(619) 236-5753



Applications are now
being accepted for

EMPLOYMENT OPPORTUNITY

BIOLOGIST I

SALARY RANGE: \$1656 - \$1736 - \$1819 - \$1903 - \$1998/month.
Appointments may be made above the minimum.

NOTE: These positions may require weekend or shift work.

THE JOB: There are currently several positions available in the Metropolitan Waste Water Division of the Water Utilities Department. The list established by this examination may also be used to fill future vacancies. Biologists I perform routine biological and bacteriological tests of marine and aquatic organisms, pond samples and waste water; identify plants and animals; examine ocean, shore, and pond samples for bacteria, phytoplankton and zooplankton; design and implement scientific tests; collect and interpret data; explain biological studies to scientific and lay groups; prepare reports; and perform other work as assigned.
Promotional Opportunities: Biologist II, \$2308 a month maximum.

MINIMUM REQUIREMENTS:

EDUCATION AND EXPERIENCE:

Equal to college graduation with a Bachelor's degree in a biological science (Biology, Botany, Microbiology, Zoology) or a closely related field, such as Environmental Science or Forestry.

NOTE: If your degree is in a closely related field, it must include a minimum of one upper division course, including laboratory work, in invertebrate biology, fresh water biology, bio-oceanography, oceanography, bacteriology, microbiology, biology, botany, or zoology. Degrees in the fields of medicine, nursing or chemistry are not considered qualifying.

If you do not meet the educational requirements, you may qualify by substituting qualifying laboratory analysis experience for each year of education lacked. Qualifying experience must include conducting laboratory analyses including any of the following: conducting marine and aquatic studies; testing and analyzing water samples for the presence of bacteria; identifying marine and fresh microscopic organisms; examining marine organisms using the microscope; or analyzing biological samples. Experience performing analyses in a medical laboratory environment is NOT considered qualifying.

Note: If you are attempting to qualify via the educational requirements, you must submit a copy of your college transcripts showing degree awarded at time of application. Transcripts will be used to evaluate your qualifications and will be made available to the hiring department during the selection process.

Graduating seniors in their last semester or quarter of college may apply, but will be placed inactive on the eligible list until presenting proof of completing the educational requirements. Graduating seniors should submit transcripts which indicate course work up to their current term and should indicate their anticipated date of graduation.

APPLICATION PROCEDURE: First Date To Apply: Friday, October 11, 1985. Applications will be accepted until further notice. Recruitment for these positions will be terminated five days following closing notice by the Personnel Department. This is an "Open Series" examination, which means that vacancies may be filled from the eligible list as soon as the first group of applicants has been processed. For these reasons, you are encouraged to apply as soon as possible.

NOTE: You must submit the Special Application for these positions which will be used to evaluate your qualifications and will be made available to the hiring department during the selection process.

The Examination Process: There is no written test or interview by the Personnel Department for these positions. All qualified applicants will be placed in CATEGORY 1 on the eligible list. This list will be in effect for nine months and may be extended by the Civil Service Commission prior to the expiration date. As vacancies occur, the hiring department may interview as many candidates as necessary to make a selection.

(OPEN SERIES) #T6053 Biologist I
October 11, 1985

Fred Washington, Assigned Analyst
Rich Snapper, Personnel Director

The City is an Equal Opportunity Employer and has an active Equal Opportunity Program for minorities and the handicapped. If appropriate, special testing arrangements can be made for handicapped persons by calling 236-6359 upon filing an application.



Philip Chang's helpful hints for sorting: When a station comes up with a large number of Bittium, it is a painstaking job to determine whether each shell is alive or dead. By using substage lighting, one can instantly determine the live ones from the empty shells.

This method works well with stations with a large number of Spiophanes missionensis. Instead of splitting each tube in half and hoping not to damage the worm, the substage lighting lets you trim off the excess tube and leave the worm completely intact for the identifier.

The above method is also helpful to sort Turbonilla, Myriochele, and Onuphis, or any organism which retracts into a thin shell or thin-walled tube.

A special thanks to Tom Gerlinger from OCSD for organizing the SCAMIT picnic at Tewinkle Park on 21 September, 1985. It was a great success and food and fun were had by all!!

List of specimens from October 21, 1985:

AHF 37 Melinnampharete gracilis Hartman, 1969
AHF 38 Melinnexis moorei Hartman, 1960
AHF 39 Anobothrus trilobatus Hartman, 1969
LACO 59 Ampharete acutifrons (Grube, 1860)
LACO 60 Anobothrus gracilis (Malmgren, 1866)
MBC 35 Melinna heterodonta Moore, 1923
MBC 36 Anobothrus gracilis (Malmgren, 1866)
PL 60 Anobothrus gracilis (Malmgren, 1866)
SCCWRP 63 Anobothrus gracilis (Malmgren, 1866)

A listing of the Mollusca Caudofoveata has been compiled by Jay Shrake (MEC). The vouchers for the Caudofoveata have been delayed with the recent inclusion of radular drawings and depth and distribution data being determined by Jay. Jay is preparing to publish his work with the Caudofoveata. Several of the listed species of Chaetoderma will probably be synonymized. We look forward to this important taxonomic paper.

Q

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			X-Large	()	----Not Available----	
			XX-Large	()	----Not Available----	

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SCCWRP KEYS TO INVERTEBRATES

Invertebrates of Southern California Coastal Waters Vol. I. Select Groups of Annelids, Arthropods, Echinoderms, and mollusks. J.Q. Word and D.K. Charwat eds. 1975. ()

Vol. II. Natantia. J.Q. Word and D.K. Charwat. 1976. ()

Price: \$6.00 plus \$2.50 postage each

TOTAL ENCLOSED: \$ _____

Mail to: Ann Martin
Biology Laboratory
Hyperion Treatment Plant
12000 Vista del Mar
Playa del Rey, Ca. 90291

Mollusca Caudofoveata

Chaetodermiata

Limifossoridae Salvini-Plawen, 1968

Limifossor Heath, 1911

Limifossor fratula Heath, 1911

Limifossor talpoides Heath, 1911 (Alaska)

Limifossor sp. A (MEC, Shrake)

Prochaetodermatidae Salvini-Plawen, 1968

Prochaetoderma Thiele, 1902

Prochaetoderma californica Schwable, 1963

Chaetodermatidae Ihering, 1876

Chaetoderma Loven, 1845 (ICZN, op. 764, 1966)

Chaetoderma sp. A (MEC, Shrake)

Chaetoderma sp. B (MEC, Shrake)

Chaetoderma sp. D (MEC, Shrake)

Chaetoderma sp. E (MEC, Shrake)

Chaetoderma sp. H (MEC, Shrake)

Chaetoderma argentueum Heath, 1911 (Alaska)

Chaetoderma attenuatum Heath, 1911 (Alaska)

Chaetoderma californica Heath, 1911 (possibly circumpolar)

Chaetoderma erudita Heath, 1911 (Alaska)

Chaetoderma hancocki (Schwabl, 1963)

Chaetoderma incrassatum (Schwabl, 1963)

Chaetoderma inflatum (Schwabl, 1963)

Chaetoderma marinellii (Schwabl, 1963)

*Chaetoderma montereyensis Heath, 1911

Chaetoderma nanulum Heath, 1911

Chaetoderma nitidulum var. pacifica (Schwabl, 1963)

Chaetoderma recisum (Schwabl, 1963)

Chaetoderma rectum (Schwabl, 1963)

*Chaetoderma riedli (Schwabl, 1963)

Chaetoderma robusta (Schwabl, 1963)

Chaetoderma rubrum (Schwabl, 1963)

Chaetoderma scrabrum Heath, 1911

*Falcidens sp. A (MEC, Shrake)

*Falcidens sp. B (MEC, Shrake)

*Falcidens sp. C (MEC, Shrake)

*Falcidens sp. D (MEC, Shrake)

*Falcidens hartmani (Schwabl, 1963)

Solenogastres Aplacophora

Neomeniida

Dondersiidae Simroth, 1893

Dondersia Hubrecht, 1888

Dondersia californica Heath, 1911

Heathia Thiele, 1913 [=Ichthyomenia, auctt.]

Heathia porosa Heath, 1911

* common in southern California

Neomeniidae Simroth, 1893

Pachymenia Heath, 1911

Pachymenia abyssorum Heath, 1911

Proneomeniidae (s.l.) Simroth, 1911

Dorymenia Heath, 1911

Dorymenia acuta Heath, 1911

Amphimeniidae Salvini-Plawen, 1968

Alexandromenia Heath, 1911

Alexandromenia agassizi Heath, 1911

Alexandromenia valida Heath, 1911

Plathymenia Schwabl, 1961

Plathymenia branchiosa Schwabl, 1961

Family incertae

Halomenia gravida Heath, 1911

Halomenia sp. A (MEC, Shrake)