February, 1993  Vol. 11, No.10

NEXT MEETING: Sabellid Polychaetes II

GUEST SPEAKER: Dr. Kirk Fitzhugh of the Los Angeles Natural History Museum, Los Angeles, CA

DATE: March 8, 1993
9:30 am - 3:00 pm

LOCATION: Allan Hancock Foudation Building, Rm B-55
University of So. California, Los Angeles, CA

MARCH 8 MEETING

Dr. Fitzhugh will emphasize the Subfamily Sabellinae (Demonax, Sabella, Megalomma, Pseudopotamilla etc). Please bring any problem specimens and associated literature to the meeting.

Funds for this publication provided in part by
The ARCO Foundation, Chevron USA,
and Texaco Inc.

SCAMIT Newsletter is not deemed to be a valid publication for
formal taxonomic purposes.
MINUTES FROM MEETING ON FEBRUARY 8

Larry Lovell announced an upcoming Polychaete Colloquium & Workshop in Cardiff Wales, UK on April 5-8, 1993. The announcement is included in this newsletter. Larry also passed around an order form for the monograph, The Sabellariid Reefs in the Bay of Mont Saint-Mishel, France; Ecology, Geomorphology, Sedimentology, and Geologic Implications. A copy of the order form is included in this newsletter.

It was also announced that the 1993 Annual Meeting of the Southern California Academy of Sciences will be held at California State University Long Beach, CA on June 4-5, 1993. Included in this newsletter is a list of topics and an address for submitting abstracts.

Dr. Eric Hochberg informed SCAMIT that the 1993 West Coast Coelenterate Colloquium is scheduled for July 16-18, 1993 at Camp Casey, Coupeville, or Whidbey Island in Puget Sound. An announcement is included in this newsletter.

Dr. Mary Wicksten wrote to SCAMIT that she is interested in unidentifiable specimens of Hepiacarpus resembling either H. palpator or H. brevirostris. She has two odd specimens from Northwest Harbor, San Clemente Island, that key to either species, but have too many dorsal carapace spines and have unusually stout pereopods to match either. They lack the characteristic spine on the merus of the first pereopod of H. fuscimaculatus. These animals may be the "H. brevirostris" of Word and Charwat (1976). She would be glad to examine any specimens resembling this species; should it prove to be undescribed, she would be happy to co-author a description. Please send material to Dr. Mary K. Wicksten, Department of Biology, Texas A&M University, College Station, TX 77843.

Bivalve and Brachiopoda Workshop

Paul Scott, Santa Barbara Museum of Natural History, chaired the bivalve workshop. The first mollusk that was discussed was Tellina carpenteri vs T. sp A (Ljubenkov). After much discussion, it was determined that T. sp A (pronounced concentric lines, "variegated" pink and yellow) may be the true T. carpenteri (few concentric lines, pink). A voucher sheet will be written describing Tellina sp A and renaming our T. carpenteri, T. sp B. The next mollusk discussed was Solemya reidi vs S. valvulus. Paul said that the specimens that were brought to the meeting from southern California were S. reidi. Specimens of Cyathodonta were then examined. This group is still unclear but the animals from San Diego were identified as C. pedroana. Cyathodonta dubiosa and C. undulata were also mentioned but it is still unclear whether they occur in southern California.

In the afternoon Dr. Eric Hochberg, SBMNH, presented an overview of brachiopods. Included in this newsletter is a handout produced by Dr. Hochberg. The first two pages contain specimens recorded on the west coast. The species with double asterisks occur in deep water. He also included figures characterizing the difference between the Class Articulata and Inarticulata. The last two pages of the handout list references.

FUTURE MEETINGS

The April 12, 1993 meeting will be on Decapod Crustaceans with Dr. Jodi Martin of the Los Angeles County Museum of Natural History. It will be held at the Los Angeles County Museum of Natural History, Times Mirror Room, Los Angeles, CA.

The meeting on May 10, 1993 will be devoted to working on the master species list. It will be held at the Cabrillo Marine Museum, San Pedro, CA.
**SCAMIT OFFICERS:**

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

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Ron Velarde</td>
<td>(619)692-4903</td>
</tr>
<tr>
<td>Vice-President</td>
<td>Larry Lovell</td>
<td>(619)945-1608</td>
</tr>
<tr>
<td>Secretary</td>
<td>Diane O'Donohue</td>
<td>(619)692-4901</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Ann Dalkey</td>
<td>(310)648-5611</td>
</tr>
</tbody>
</table>
## WEST COAST BRACHIOPODA

<table>
<thead>
<tr>
<th>TAXA</th>
<th>TYPE LOCALITY</th>
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<tbody>
<tr>
<td><strong>CLASS INARTICULATA</strong></td>
<td></td>
</tr>
<tr>
<td>Order Lingulida</td>
<td></td>
</tr>
<tr>
<td>Family Lingulidae</td>
<td></td>
</tr>
<tr>
<td><em>Glottidia albida</em> (Hinds, 1844)</td>
<td>Magdalena Bay, MEXICO</td>
</tr>
<tr>
<td><em>Glottidia audiberti</em> (Broderip, 1835)</td>
<td>Guayaquil, ECUADOR</td>
</tr>
<tr>
<td><em>Glottidia palmeri</em> Dall, 1871</td>
<td>Head, Gulf of California, MEXICO</td>
</tr>
<tr>
<td>Order Acrotretida</td>
<td></td>
</tr>
<tr>
<td>Family Crenitiidae</td>
<td></td>
</tr>
<tr>
<td><em>Crenia californica</em> Berry, 1921</td>
<td>Santa Monica, CALIFORNIA</td>
</tr>
<tr>
<td>Family Discinidae</td>
<td></td>
</tr>
<tr>
<td><em>Discinula lamellosa</em> (Broderip, 1834)</td>
<td>Iquique, PERU</td>
</tr>
<tr>
<td><em>Discinula strigata</em> (Broderip, 1833)</td>
<td>Panama Bay, PANAMA</td>
</tr>
<tr>
<td><strong>Pelagodiscus atlanticus</strong> King</td>
<td></td>
</tr>
<tr>
<td><strong>CLASS ARTICULATA</strong></td>
<td></td>
</tr>
<tr>
<td>Order Rhynchoconellida</td>
<td></td>
</tr>
<tr>
<td>Family Basiliodidae</td>
<td></td>
</tr>
<tr>
<td><strong>Neorhynchia profunda</strong> Cooper</td>
<td></td>
</tr>
<tr>
<td>Family Frieleiidae</td>
<td></td>
</tr>
<tr>
<td><strong>Frielea halli</strong> Dall, 1895</td>
<td>Cortez Bank, CALIFORNIA</td>
</tr>
<tr>
<td>Family Hemithyrididae</td>
<td></td>
</tr>
<tr>
<td><em>Hemithyris psittacea</em> (Chemnitz, 1785)</td>
<td>W. GREENLAND</td>
</tr>
</tbody>
</table>
Order Terebratulida

Family Canellothyrididae

*Terebratulina crossei* Davidson, 1882
*Terebratulina kiiensis* Dall & Pilsbry, 1891
*Terebratulina unguicula* (Carpenter, 1865)

Family Laqueidae

*Dallinela obsoleta* (Dall, 1891)
[= *Terebratalia occidentalis* obsoleta]
*Diestothyris frontalis* (Middendorf, 1849)
[= *Terebratalia frontalis*]
*Laqueus californianus* (Koch, 1848)
[= *L. erythraeus* Dall, 1920]
*Laqueus vancouveriensis* Davidson, 1877
[= *Frenula, Megerlia, Ismeria jeffreysi* Dall, 1871]
**Notorygmia abyssa** Cooper
*Terebratalia occidentalis* (Dall, 1871)
*Terebratalia transversa* (Sowerby, 1846)
*Terebratalia t. rubescens* (Dall, 1910)

Family Megathyrididae

*Argyrotheca lowei* Hertlein & Grant 1944

Family Platidiidae

*Platidia hornii* (Gabb, 1861)
[= *Morrisia hornii*]
[= *Platidia seminula radiata* Dall, 1885]

Family Terebratulidae

**Abyssothyris elongata** Cooper

Sagami Bay, JAPAN
Kii Province, JAPAN
Monterey, CALIFORNIA

Cedros Island, MEXICO
Sea of Okhotsk
CALIFORNIA
S. Catalina Island, CALIFORNIA
Vancouver Island, BC, CANADA
Port Etches, ALASKA
S. Clemente Island, CALIFORNIA
Puget Sound, WASHINGTON
San Pedro, CALIFORNIA

Santa Barbara, CALIFORNIA [Miocene]
San Diego, CALIFORNIA
Artificial Key to Western Canadian Brachiopoda

1. Shell valves free ............................................. 2
1. Valve cemented to substrate.................. Crania californica
   2. Foramen entirely in pedicle valve .................................. 3
   2. Foramen extending to brachial valve.......................... Platidia hornii
3. Foramen situated on beak ..................................... 4
3. Foramen slit-like on floor of valve Discinisca lamellosa
   4. Anterior valve margin straight .................................. 9
   4. Anterior valve margin sulcate .................................. 5
5. Shell light coloured ........................................... 6
5. Shell black or grey.................. Hemithiris psittacea
   6. Shell solid, not translucent ...................................... 7
   6. Shell thin, translucent ..................................... 8
7. Beak prominent, brachial valve slightly sulcate.............. Diestothyris frontalis
   7. Beak small, brachial valve deeply sulcate Terebratalia transversa
   8. Shell inflated, beak narrow.................. Laqueus californianus
   8. Shell flattened, beak wide............... Frieleia halli
9. Anterior valve margin smooth......................................... 10
9. Anterior valve margin crenulated........... Terebratulina unguicula
10. Shell elongated, inflated.................. Terebratulina crossei
10. Shell discoid, flattened.................. Terebratulina sp. indent.

Bernard (1972)
REFERENCES

TAXONOMY

Berry, S.S. 1921. A new neotreme brachiopod from California. Annals and Magazine of Natural History, (ser. 9), 8: 210-211.

GENERAL


BIOLOGY

Polychaete Colloquium and Workshop: Cardiff, April 5-8, 1993

Spring will soon be with us and details of the April meeting in Cardiff are being finalised. There are still places available for the Colloquium and Workshop sessions. It's not too late to book accommodation for the meeting but applications should be made as soon as possible.

The meeting will begin after lunch on Monday April 5th (to allow travel time to reach Cardiff) with a colloquium session; talks will continue through Tuesday. The laboratory-based Workshop sessions will then occupy Wednesday and the morning of Thursday, closing at lunchtime to allow travel from Cardiff before the Easter weekend.

The timetable for talks is fairly full but we can fit in a few more if forthcoming. A large space is available for the display of Posters. Relevant posters previously presented at other scientific meetings will be welcomed as well as original ones. As well as strictly scientific posters we should like to encourage posters from NWA and Water Purification laboratories showing the geographical area for which that laboratory is responsible and the kind of work it does which involves polychaetes. Please bring a poster with you.

Papers submitted for publication may be based on original material presented in posters as well as on verbal presentations. Definitive titles of papers and posters are now needed and it would be helpful to have abstracts at least before the end of February.

It is hoped that many people will bring specimens to the Workshop session, which will be in a modern teaching laboratory of the School of Biology. Laboratory facilities include video monitors on all lab benches, capable of displaying images from specimen, microscope slides etc. from a central television unit. There is ample bench space to set out prepared specimens and plenty of microscopes (oil immersion and phase contrast). Low power dissecting microscopes are available but they are not of top quality and you may prefer to bring your own.

A third (final) circular will be sent to all confirmed delegates.

Two bursaries (£30.00 each) have been made available by the Council of the Estuarine and Coastal Sciences Association to enable two students (or similar) to attend the meeting. Applications for bursaries should be made by letter to Dr C. Mettam. Preference will be given to students who are able to make an active contribution (e.g. poster display).

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Monday April 5
from 11.00
Registration in the School of Biology, University of Wales, Cardiff. Laboratories are open for setting up Posters, microscopes etc.

Lunch

14.25-15.00
Gordon Paterson, Biodiversity of abyssal plain polychaetes in the NE Atlantic.

15.00-15.25
Matt Bentley, Reproductive seasonality and synchrony in polychaetes.

15.25-16.00
Peter J W Oliver, Population structure of exploitable polychaetes

Tea/Coffee

16.30-16.55
Madeleine Howard, Bait digging and polychaetes.

16.55-17.20
Lynda Warren, Protection of polychaetes

17.20-17.45
Peter Cowlin, The future for the commercial culture of bait worms

19.30
Reception in University of Wales

Tuesday April 6

Conference Session 1 Chairman: ?

09.30-09.55
Tegwyn Harris, The ecology of Ophelia borealis in the Essex estuary.

09.55-10.20
Inez Gamenick & Olaf Clerc, Ecophysiological studies: a tool to differentiate Capitella capitata (Fabricius 1795) into sibling species?

10.20-10.45
Roger Bamber, The role of Nephtys in a polychaete community

Tea/Coffee

11.15-11.50
Annette Woodham & Susan Chambers, Bipalpate cirratulids in the UK

11.50-12.20
John Hartley, A review of Ampharetidae in Europe

12.20-12.45
Mary Petersen, A north European problem in polychaete taxonomy

Lunch

14.15-14.40
Susan Chambers, G.M.Spooner's records of polynoids from Plymouth.

14.40-15.05
Mike Kendall, Polychaetes from Spitsbergen

15.05-15.30
M.K. Jassim & Chris Mettam, Morphological constancy in Polydora spp.

15.30-15.55
Andrew Mackie, Collecting and preserving polychaetes

Tea/Coffee

16.30-18.00
Topics for open discussion
Discussion on future colloquia/workshops
Close of colloquium proceedings

19.30
Buffet Reception in National Museum of Wales

Wednesday April 7

09.30-10.00
Workshop Session

Thursday April 8

09.30-12.30
Workshop Session

In addition to the colloquium speakers, expected workshop participants include Phyllis Knight-Jones (sabellids), Pete Cadman (Ampharetidae), Brendan O'Connor, Fred Flejel.
Polychaete Colloquium & Workshop
Cardiff, April 5—8 1993

a regional meeting organised by the Polychaete Society
hosted by
The National Museum of Wales
and
University of Wales College of Cardiff

The Polychaete Colloquium & Workshop offers a programme of talks, posters and laboratory sessions. It provides an opportunity for ecologists and taxonomists to meet and compare notes and specimens.

Several authors contributing to the polychaete identification guides in the series of *Symposia of the British fauna* (published by the Linnean Society of London and the Estuarine and Coastal Sciences Association) will be participating. There will be chance to try new keys for species identification and to examine specimens. It is intended that people will also bring their own specimens of polychaetes for examination and discussion.

Accommodation is available in Aberdare Hall, an attractive and centrally placed university residence.

**Attendance Fee:**
£60, includes accommodation (bed and breakfast) for 3 nights (Mon—Wed), coffee breaks during the meeting and proceedings of the colloquium.

Additional Sunday night accommodation can be arranged on request.

**Attendance fee for all sessions without accommodation, £8.**

For further information and provisional programme contact your local member of The Polychaete Society who is

or contact:

Chris Mettam (Polychaete Colloquium)
School of Pure and Applied Biology
University of Wales
P.O. Box 915
Cardiff CF1 3TL

Tel: (0222) 874000, ext 5077
Fax: (0222) 874305

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SECOND ANNOUNCEMENT, January 1993

Polychaete Colloquium and Workshop: Cardiff, April 5—8, 1993

Accommodation is available in Aberdare Hall, an attractive student residence, from Monday April 4th to Wednesday April 7th inclusive. Accommodation for Sunday night can be arranged on request.

Cardiff is accessible by motorway (M4), rail (service from London every 30 minutes), and air (Cardiff Airport is some 15 kilometers from the City centre).

**Fees**

£60.00 includes: bed and breakfast accommodation for Monday, Tuesday and Wednesday; coffee/tea breaks during the colloquium; colloquium proceedings.

For people not staying in Aberdare Hall there is a conference fee of £8.

Payment should be by cheque made to: Dr C. Mettam, Polychaete Society. Payment should be made as soon as possible and please not later than March 1st 1993. Accommodation is limited and an early reply is advisable if you have not pre-booked.

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Definitive Booking and Payment Form

As if staying in Aberdare Hall of Residence, please confirm your requirements for accommodation

Names of persons (BLOCK CAPITALS please) for whom accommodation is to be reserved in Aberdare Hall on April 5,6 and 7th, 1993.

<table>
<thead>
<tr>
<th>Name (BLOCK LETTERS)</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>(Sunday extra night)</th>
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<tr>
<td>1.</td>
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<td>yes / no</td>
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<td>2.</td>
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</table>

Total fees @ £60 each

Please state if accommodation is also required on Sunday night for any persons at extra cost. This may be in Aberdare Hall or else in guest house accommodation nearby.

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If not staying in Aberdare Hall of Residence.

Names of persons (BLOCK CAPITALS please) attending the colloquium and workshop.

| 1. | 3. |
| 2. | 4. |

Total fees @ £8 each
JUST PUBLISHED:

THE SABELLARIID REEFS IN THE BAY OF MONT SAINT-MICHEL, FRANCE
Ecology, Geomorphology, Sedimentology, and Geologic Implications*

Edited and Translated by David W. Kirtley

*This monograph is a translation of Caline, B., et al, 1988, Les récifs à Annélides (hermelles) en baie du Mont Saint-Michel, France.


ISSN 1063-3081
Price US $40.00
Postage and handling paid with prepaid orders

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890 N.E. Ocean Boulevard, Stuart, FL 34996
(407) 225-0505 FAX: (407) 225-4725

ORDER FORM

Please send us: _____ copy/copies of The Sabellariid Reefs in the Bay of Mont Saint-Michel, France.

Name______________________________
Address____________________________________________________________________
____________________________________________________________________________
City__________________________ State____ ZIP__________
1993 WEST COAST COELENTERATE COLLOQUIUM
- informal talks and discussions on the biology of cnidarians and ctenophores -

July 16, 17, 18  
Summer 1993

Dear Colleagues,

We have decided to revive an old tradition of periodic casual meetings for all persons interested in Coelenterates, and thus announce that the Eighth West Coast Coelenterate Colloquium will be held next summer. In keeping with past tradition, we are encouraging short talks and informal discussions on any aspect of coelenterate biology (interpreted in the loosest sense to include both Cnidaria and Ctenophora). We especially encourage graduate students to come and present their ideas. Anyone who wishes to attend, but not give a talk, is also welcome.

Although the meeting time is not yet firm, it is likely to be 2-3 days across a weekend in late June 1993. We are investigating 3 possible locations, all within a few miles of Anacortes, Washington and will choose based on availability and low cost. All potential sites are fairly rustic, on the waterfront in Puget Sound, about 2 hours north of Seattle by car.

Please distribute this announcement to interested students and faculty members. A second, more detailed announcement will be mailed in early March. If you wish to receive the second announcement, please send us your name and address.

Looking forward to seeing you, the co-conveners -

Claudia Mills  
Friday Harbor Laboratories  
620 University Road  
Friday Harbor, WA 98250

Gisèle Muller-Parker  
Shannon Point Marine Center  
Western Washington University  
Anacortes, WA 98221-4042
1993 Annual Meeting
SOUTHERN CALIFORNIA ACADEMY OF SCIENCES

JUNE 4-5
CALIFORNIA STATE UNIVERSITY
LONG BEACH

CALL FOR PAPERS -- PROFESSIONAL AND STUDENT -- in all disciplines of the natural and social sciences. To college students (graduate or undergraduate) Best Paper Awards are up for the winning, and the single-authored ruling no longer applies! Co-authored papers are eligible, as long as they are the work of the student(s) presenting. (Papers may credit the professor under whom the work was done, but must be the work of the student.)

SYMPOSIA being planned include: Biology of Marine Wastewater Outfalls in Southern California (with a counterpoint symposium on Santa Monica Bay); Air Quality of the Los Angeles Basin; Global Warming; Electron Microscopy. These may or may not be your subject, but for these and all others:

ABSTRACTS DUE MARCH 31

to the Program Chair:

Dr. David L. Soltz
Biology Department
CALIFORNIA STATE UNIVERSITY
Long Beach, CA 90840

Telephone: 310/985-4807

Please see other side for format and instructions -- and be sure to send with your abstract the requested 3x5 file card, giving your name, affiliation, title of your paper, section preferred, and AV equipment needed, if any. This information is vital to plan the sessions and assure a place for your presentation.
ABSTRACT INSTRUCTIONS

**With Your Abstract, Please Submit** on a 3x5 file card, the following:

1. Your name, affiliation, mailing address and telephone number
2. Indicate student or professional
3. Title of your paper
4. The subject field in which you wish to present
5. The required time (maximum of 20 minutes)
6. Audio-visual equipment needed, if any

Abstracts will appear exactly as submitted, so they must be cleanly typed and correct in format. Those which do not conform to the guidelines or are mailed after deadline will not appear in the printed program. Abstract must be typed and submitted on an 8-1/2 x 11" sheet. Word-processed abstracts should be laser printed if possible. Typewritten abstracts should be clean. Do not erase. Arrange in a space 6" wide by 4" high (see example below). Do not show the enclosing box.

1. **TITLE** must be in all capital letters. Do not italicize, except species names.
2. Underline author(s) name(s), listing the presenter first.
3. List the institution and department for each author, as indicated in the sample abstract.
4. Skip one line, and begin text with 5 space paragraph indentation. Single space text.
5. List acknowledgements, if appropriate, within parentheses following text.

**Sample Abstract**

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MICROBIAL ACTIVITY IN THE DIGESTIVE TRACT OF THE HALFMOON, *Medialuna californiensis*. J.S. Kandel¹, J.R. Paterek² and M.H. Horn¹. ¹California State Univ. Fullerton, CA 92634 and ²Agouron Institute, La Jolla, CA 92037.

We report the presence of a diverse microbial flora and of microbial fermentation products in the hindgut region of the halfmoon, *Medialuna californiensis*, a seaweed-eating fish from southern California coastal waters. Viable aerobic and anaerobic bacteria were found in all sections of the gut, but were of highest concentration ($10^5-10^8$ ml) in the hindgut. Microscopy revealed vibrios, spirilla, rod-shaped bacteria and flagellated protozoa in the midgut and hindgut, but primarily vibrios and rods in the stomach and foregut. Acetic, isobutyric and butyric acids, the volatile products of microbial breakdown of carbohydrates, were found only in the hindgut, as was ethanol, a nonvolatile product. These results provide the first evidence for microbial fermentation and its possible contribution to the energy supply in a north-temperate herbivorous fish.

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**BOTH ABSTRACT AND CARD DUE MARCH 31** to the Program Chair:

Dr. David Soltz
Biology Department
CALIFORNIA STATE UNIVERSITY
Long Beach, CA 90840