



and Kathe Jensen while there. Kathe is to be in Florida around that time. If anyone else will be around, please contact Kerry Clark or Steve Long to see if we can get together.

#### EDITOR'S NOTE

I am looking for a way to keep the content of the *Opisthobranch Newsletter* similar to past years in terms of open communications and personal notes. I hope that everyone will read Dr. Edmunds' comments and seriously consider the course the ON should take. As a pure information resource, I feel the ON has provided a most valuable service and it can continue to do so in the future. I would like to provide the publication forum as well but that will depend on the majority of you and what you feel is proper. I definitely do not want to lose the open comments on all aspects of opisthobranchs.

#### INFORMATION WANTED

From Bob Henderson (Pacific Bio-Marine Labs, Inc., P.O. Box 536, Venice, CA 90291): "I'm interested in finding out whether anyone else has run across incidences of color attenuation or loss as a function of increasing depth. I've collected a few specimens of deep water *Archidoris* which seem to point to this trend but not anywhere near enough to make any claims. I'd be interested in any input on *Archidoris* or other dorid species."

#### CHANGE OF ADDRESS/NEW SUBSCRIBERS

Here is the rest of the list of people I would like to have current addresses verified:

Gloria Snively  
Dr. Gamil N. Soliman  
M. Sordi  
Sam Spaulding  
Mr. Gale Sphon  
Mike Spieth  
Joan Steinberg  
Cathy Lamar Stephens  
Linda L. Stephens  
Hugh M. Stirts  
V. Storch  
E.R. Strong  
M. Switzer-Dunlap  
Iwao Taki  
Dennis L. Taylor  
Dr. Dwight Taylor  
Ronald F. Thomas  
Dr. Thomas E. Thompson  
Christopher D. Todd  
Robert Trelease  
Richard K. Trench  
Ruth D. Turner  
V. Urganri  
Nardo Vicente  
Howard Wachtel  
Edgar T. Walters  
S. Weaver  
U. Welch  
Gary Williams  
Wilkie A. Wilson  
Heinz G. Wolff  
Terufumi Yamasu  
John Lee Yarnall  
Dr. David K. Young  
Sheldon Zack  
Dr. Bernhard Zoder

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Mid Pacific Research Laboratory  
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APO San Francisco, CA 96555

If you know of anyone with a continuing association or interest in opisthobranchs, please send me their current address and phone numbers where available. Please include their current status and interest if known (eg -- Student, Professor, no interest, amateur)

#### CURRENT EVENTS

Bay Area Malacologists, Saturday, March 6, 1982, 10am to 4pm. First floor, Shell Building #8 (Room 8111), U.S. Geological Survey, 275 Middlefield Road, Menlo Park, California. Write or call for info: Gene Coan, 891 San Jude Ave., Palo Alto, CA 94306, (415) 493-8242 (evenings). Sorry that I did not get this information out earlier.

The American Malacological Union annual meetings will be held in New Orleans, Louisiana, in 1982; in Seattle, Washington, in 1983, and probably in Norfolk, Virginia, in 1984. For information on membership contact Dr. Robert Robertson, Department of Malacology, Academy of Natural Sciences of Philadelphia, 19th and the Parkway, Philadelphia, PA 19103.

Western Society of Malacologists annual meeting, University of Redlands, Redlands, California, June 20-23, 1982. For information contact: Ms. Kit Stewart, 19 La Rancheria, Carmel Valley, CA 93921. The call for papers is out now. Contact Dave Mulliner.

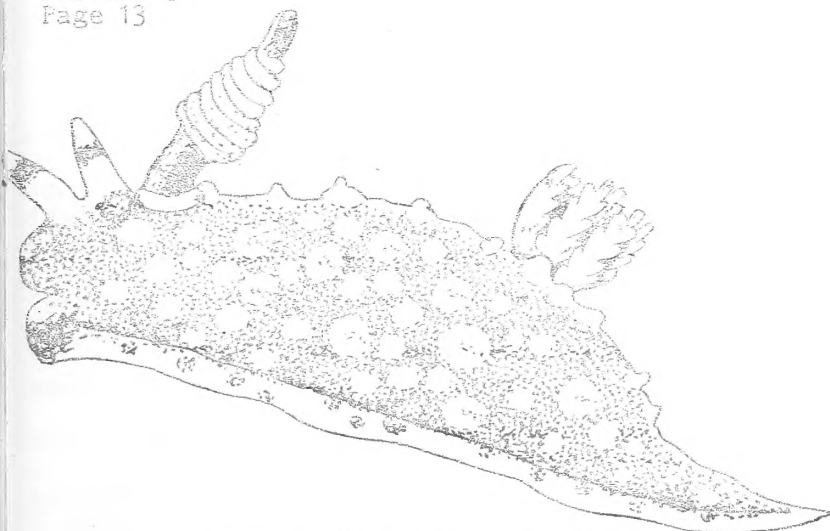
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10069 Bavendam, Fred, 1980. *Beneath Cold Waters: The Marine Life of New England*. Down East Books, Camden, Maine, 127p. [A gorgeous book, cover to cover superb underwater color photography. All invertebrate phyla and fish covered. You've got to see it to believe it. 8x10 color photos of *Aeolidia papillosa*, *Coryphella verrucosa* and *Onchidoris bilamellata*. Smaller photos of *Cadlina laevis* & *Polycera dubia*.

10070 Kuppermann, I. & T.C. Carew, 1974. Behavior patterns of *Aplysia californica* in its natural environment. *Behav. Biol.*, 12:317-337.

10071 Meinkoth, Norman A., 1982. *Field Guide to North American Seashore Creatures*. The Audubon Society. Chanticleer Press, New York, 798p., 690 color photos. [31 opisthobranch species covered from two coasts of the US. 31 color photos of branches. The book is very hard to use because the species are grouped by shape, a format the Audubon series has always used. In this case the nudibranch section includes flatworms and the cucumber *Parastichopus*. One sea hare is even included with the anemones. Photographs are beautiful: familiar branches providing photos include Hans Bertsch, Dan Gotshall & Dave Behrens]





*Polycera odhneri* Marcus, 1955  
Drawing by Eveline Marcus

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#### PAPER

#### A NEW COLOR CHARACTERISTIC FOR *ROSTANGA PULCHRA*, MACFARLAND 1905.

Michael W. Haberland

*Rostanga pulchra*, MacFarland 1905, is a common cryptobranch dorid nudibranch of the eastern Pacific ranging from Vancouver Island, British Columbia, to the Gulf of California, Mexico, and is additionally reported from Isla Chiloe, Chile (Marcus, 1959).

Morphological and color descriptions are reported by Marcus, 1959; MacFarland, 1956; McDonald, 1977; Behrens, 1980; Morris et al, 1980; McDonald and Nybakken, 1981. The body of *Rostanga pulchra* is elliptical with both anterior and posterior ends rounded. Small hispid papillae with glandular tips (caryophyllidia) cover the dorsum and are strengthened by surrounding spicules. The rhinophores of this species are unique (see Behrens, 1980, Figure 2j) with a cylindrical extension set above 20-24 nearly vertical lamellae. The general body color of *Rostanga pulchra* has been reported to vary from shades of salmon, orange and bright red.

On 15 August 1981, one 6mm specimen of *Rostanga pulchra* was collected in Morro Bay, California, which did not match the above color description. The specimen was collected on a sand substrate at a depth of 6m directly under the Coast Guard pier. The body was almost colorless; the only distinguishing coloration being a spot of white pigmentation on the back of the rhinophores (Figure 1). All other morphological features agreed with those of a typical *R. pulchra*.



Figure 1. Rhinophore of colorless *Rostanga pulchra* collected in Morro Bay, California. Arrow points to patch of opaque white pigmentation.

Due to this departure from more typically colored specimens, James Lance, Scripps Institute of Oceanography, was contacted because of his experience with this species and his opinion concerning the possibility of this specimen being either an exotic or an introduced species. Lance recommended that I examine the marginal rows of papillae for the presence of white coloration similar to that observed on the rhinophores. This coloration was observed.

Specimens of *Rostanga pulchra* from the northeastern Pacific, regardless of their overall ground color, appear to share a common trait -- the marginal papillae bear opaque white tips in contrast to those covering the notum in general. This may be used as a distinguishing feature. Additionally, some specimens bear an opaque white spot about midway up the exposed rhinophoral club.

#### Literature Cited

- 09970 Behrens, David W., 1980. Pacific Coast Nudibranchs: A Guide to the Opisthobranchs of the Northeastern Pacific. Sea Challengers, Los Osos, California. 112p.
- 08023 MacFarland, Frank Mace, 1966. Studies of Opisthobranchiate Mollusks of the Pacific Coast of North America. California Acad. Sci. 54pp.
- 09970 McDonald, Gary R., 1977. A Review of the Nudibranchs of the California Coast. Masters Thesis, California State Univ., Hayward. 373p.
- 10031 Nybakken, James & Gary McDonald, 1981. Feeding Mechanisms of West American Nudibranchs Feeding on Bryozoa, Cnidaria, and Ascidiacea, with Special Respect to the Radula. *Malacologia*, 20(2):439-449.
- 01438 Marcus, Ernst, 1959. Lamellarisacea und Opisthobranchia. Reports of the Lund Univ. Calle Exped. 1948-1949, No. 3b. Lund Univ. Arsskr. N.F. (2) 55(9):1-133, figs. 1-130.
- 09990 Morris, Robert M., Donald B. Abbott and Eugene C. Haberland, 1980. Intertidal Invertebrates of California. Stanford Univ. Press. 69pp.

## EDITOR'S NOTES

I have completed work on the new list combining branch references from volumes 1-23 of *The Veliger* and am adding in volume 24. The project has many hours' work and has had to fit in with a job change and other happenings in my life. Carlton's list and Behrens' list have been included [June 20, 1982] and I have printed a few sets which are available at \$4.95 each plus sales tax for California residents and \$1.00 for airmail postage. This will only be available a supplement because of the size and printing costs. I will print only as many copies as I have received requests for prior to printing.

I welcome additional lists and card files of taxonomic and subject information. They will be compiled into future supplements.

## READER FORUM

From Dave Behrens: Comment on Malcolm Edmunds' letter -- "The *Opisthobranch Newsletter* is in its fourteenth year. Although not necessarily on the shelves of all major universities it has had wide distribution among branchologists worldwide, and is found in institutional libraries where active branch researchers reside, particularly in the western USA. I was unaware that it was the ON's policy not to publish papers, and on the contrary, solicitations have appeared several times in the past few years inviting manuscripts on all opisthobranch issues, short of species descriptions. I believe that the size and significance of the contributions will be metered by the value the author places upon his paper and his opinion of the ON as the proper place for its publication. Those papers to appear during the past two -- three years seem to me to be very appropriate.

I would, however, recommend making arrangements for "Bio abstracting" of ON publications when they appear, to provide wider exposure. Concerning the concept of the newsletter as a source to exchange ideas and views -- any sounding board is only as good as its contributors. I am highly disappointed at the lack of support given the ON from my fellow colleagues, particularly from foreign shores. The ON needs material to make it the publication that Dr. Edmunds, myself, and others wish it to be. In a way, we are all part of the newsletter. Steve prints what we give him. If we wish to improve or purify the ON we need to contribute along these lines. -- D.W. Behrens"

From Kathe Jensen: "Sorry you couldn't make it to Florida while I was there. I had a pretty nice week there. I finished up a manuscript on the word-processor (of course, the word-processing system at CVI [College of the Virgin Islands] is not compatible with the one at FIT [Florida Institute of Technology]), and I looked at a new *Elysia* sp., which Kerry [Clark] or one of his students is going to describe. My species list of *Ascoglossa* from St. Thomas is still increasing, but there are very few of each species, so I haven't been able to do much research. I still hope to get enough *Oxynoe antillarum* to make a

thorough comparison with *O. azuropunctata*. St. Thomas is the original locality for *O. antillarum* but it doesn't seem to be very common.

Considering Dr. Edmunds' note, I tend to agree with him. The ON should basically be a forum for exchange of news and comments, and not for publication of original material. It is not because I think the standard of papers submitted to ON is lower than any other papers, but because ON reaches only a limited number of people (just look at the list of names of people you have lost contact with), and is published at rather irregular intervals.

Also, I (and probably many other "new" subscribers) would greatly appreciate it if you could print a current address list of present subscribers. This would greatly facilitate mailing reprints.

After about June 1st, I will be back in Florida for the summer. I hope to combine a vacation in Denmark with the Anglo-French Malacological Symposium in London in September. After that I don't know what I'll be doing." -- Kathe Jensen

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Chesapeake Biological Laboratory  
University of Maryland  
Solomons, Maryland

Joseph Warren Burnett  
Division of Dermatology  
University of Maryland School of Medicine  
Baltimore, Maryland

Gil Gat  
72 South Africa Blvd.  
Ashqelon, Israel 78411

## CURRENT EVENTS

The July meeting of the Conchological Club of Southern California was held on July 7, 1982, at the Los Angeles County Museum of Natural History. Rill Brand (Underwater Photographic Society) showed slides of about thirty species of California Nudibranchs taken underwater with a Nikonos camera. Many of the photos were taken from the Channel Islands.

The fifteenth annual meetings of the Western Society of Malacologists were held at the University of Redlands, Redlands, California. About 65 malacologists were in attendance.

David Mulliner - "Update - Nudibranchia" presented current research in the Panamic area. Leroy Poorman - "Molluscan Populations at Bahia San Carlos, Sonora, Mexico" included several observations on opisthobranchs recorded during about 28 years of collecting at this location.

The Eighth International Malacological Congress will be held in Budapest, Hungary, from August 29 to September 3, 1983. Information available by writing László Pintér, Natural History Museum, Baross u. 13, H-1088 Budapest, Hungary.

The 1982 meeting of the American Society of Zoologists, and American Microscopical Society, Animal Behavior Society, International Association of Astacology, and Society of Systematic Zoology will be held in Louisville, Kentucky, from December 27 to December 30, 1982. For information contact Mary Wiley, Business Manager, American Society of Zoologists, Box 2739, California Lutheran College, Thousand Oaks, CA 91360. Telephone 805-492-3585.

#### PERSONAL NOTES

Dr. Claude Poizat writes that copies of his recent papers are available. Please write to him direct.

From Ian Loch: "I spent a few weeks on a busman's holiday diving in far North Queensland, from Lizard Island to Raine Island up near Torres Strait, an area I had not collected before. Results were mildly disappointing. About 90 lots of macro opisthobranchs collected by myself and friends, involving just over 40 species in 22 dives, only 2 of which were new to me, a striking *Bornella* with a mosaic pattern and small humped *Dendrodoris* which I initially mistook for a lamellariid. However, we did find a number of additional specimens for some undescribed species of chromodorids previously represented by only a few specimens. I had expected to find species usually recorded in islands north of Australia, but while this was true of some prosobranchs, the opisthobranchs were fairly quiet. Still, did not see a single aplysiid during the whole trip, which must constitute some sort of record.

A few subsequent dives around Sydney were somewhat anti-climatic when the visibility dropped from the up to 100 ft. up north to 5 ft. here."

Don & Kathy Cadien are the proud parents of a new baby boy. They are working to finish a room addition to their house in San Pedro. Mary, their daughter, is doing fine.

#### BIBLIOGRAPHY OF OPISTHOBRANCHIA

Please help with citations. I do not receive or have access to every publication in the world! The **Bibliography of Opisthobranchia** can only be correct and accurate if I have copies of all papers and books available to me.

Please send reprints of papers to me as soon as you receive your copies. If you do not get reprints, please send me a xerox copy including the journal title page. Please be certain that volume, issue, pagination, plates, figures, tables, and exact publication date are shown on the publication.

#### Malacological Publications by Hendrik Engel.

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00755 ENGEL, HENDRIK, 1925. Westindische Opisthobranchiate Mollusken I. Aeolidiadae. *Bijdr. Dierk.*, 24:33-80.

10092 ENGEL, HENDRIK, 1925-1932. *Oosthoek's Geillustreerde Encyclopedie*. 3e dr., 12 din. Utrecht. [malacological articles]

06296 ENGEL, HENDRIK, 1926. Drei neue Arten der Gattung *Aclesia* (Rang) Bergh, 1902. *Zool. Anz.*, 69, (7-8):180-187.

06297 ENGEL, HENDRIK, 1927. Westindische Opisthobranchiate Mollusken. II. Aplysiidae, Pleurobranchidae, Oxynoeidae, Elysiidae, Phyllobranchidae. *Bijdr. Dierk.*, 25:83-122.

06298 ENGEL, HENDRIK, 1929a. *Aplysia dactylo-mela* Rang, a circumtropic species. *Proc. Malacol. Soc. Lond.*, 18(4):147-151.

06299 ENGEL, HENDRIK, 1929b. Einiges über die Gattung *Notarchus* (Cuvier 1817) Bergh, 1902. *Zool. Anz.*, 85(9-10):193-203.

10093 ENGEL, HENDRIK, 1929. Drie soorten van opisthobranchiate mollusken, die nieuw zijn voor de Nederlandsche fauna. *Tijdschr. Nederlandsche Dierk. Ver.*, (3) 1:89 (a demonstration).

06300 ENGEL, HENDRIK, 1930. *Aclesia citrina* Rang, eine zirkumtropische Aplysiide. *Zool. Anz.*, 86(7-8):211-219.

10094 ENGEL, HENDRICK, 1932-1938. *Winkler Prins Algemeene Encyclopaedie*. 5e dr., 16 din. Amsterdam (malacologische artikelen).

06301 ENGEL, HENDRICK, 1933. *Aplysia saltator* Forbes. *Proc. malac. Soc. Lond.*, 20(6):321-322.

10095 ENGEL, HENDRIK, 1934a. Are the genera and species of Bohadsch, 1761, to be accepted? *Ann. Mag. nat. Hist.*, (10)13:529-540.

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06307 ENGEL, HENDRIK, 1935a. Ueber *Pleurobranchus marmoratus* Grobben, 1891. *Verhandl. de zool.-bot. Ges. Wien*, 85:88.

10096 ENGEL, HENDRIK & EALES, N.B., 1935b. The genus *Bursatella* de Blainville. *Proc. malac. Soc. Lond.*, 21:279-303.

06309 ENGEL, HENDRIK, 1936a. On the names of

the genera *Tethys* and *Aplysia*. *Temminckia*, 1:271-266. Leiden.

06306 ENGEL, HENDRIK, 1936b. Le genre *Phyllaplysia* F. Fischer, 1872. *Journ. de Conch.*, 80:199-212; fig. 1-2.

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10097 ENGEL, HENDRIK, 1936d. The Netherlands Nudibranchiate Mollusca. *Zool. Meded. Leiden*, 19:103-116; fig. 1-2.

10098 ENGEL, HENDRIK & JUTTING, VAN BENTHEM, 1936e. Mollusca (I). B. Gastropoda Opisthobranchia. *Fauna van Nederland*, 8:1-73.

06304 ENGEL, HENDRIK, 1936f. Die Gattung *Paraplysia* Pilsbry, 1895. *Zool. Anz.*, 116(1/2):35-40; fig. 1.

06308 ENGEL, HENDRIK, 1936g. Some additions to our knowledge of the genus *Notarchus*. *Proc. Malac. Soc. Lond.*, 22(3):113-119; figs. 1-4.

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10200 ENGEL, HENDRIK, 1937b. De Liefhebbers van Neptunus-Cabinet. De eerste malacologische vereniging? *Basteria*, 2:64.

10201 ENGEL, HENDRIK, 1938. Weekdieren (Mollusca). In: H.C. REDEKE, *Het dier in zijn wereld, overzicht der levensverschijnselen in het dierenrijk*. pp. 111-118. Utrecht.

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06313 ENGEL, HENDRIK, GEERTS, S.J., & ALTENA, VAN REESTEREN, 1940b. *Alderia modesta* (Loven) and *Limapontia depressa* Alder & Hancock in the brackish waters of the Dutch coast. *Basteria*, 5:6-34; pls. 1-2.

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10208 ENGEL, HENDRIK, 1946. On the relative status of the names *Petalifera* Gray, 1847, and *Aplysiella* Fisher, 1872 (class Gastropoda, order Aplysiomorpha). *Bull. zool. Nomencl.*, 1:177.

10209 ENGEL, HENDRIK, 1947-1954. Winkler Prins Encyclopaedie, 6e dr., 18 dln. Amsterdam (malacological articles).

10210 ENGEL, HENDRIK, 1947-1955. Oosthoek's Encyclopedie, 4e dr., 16 dln. Utrecht (malacological articles).

10211 ENGEL, HENDRIK, 1950. Het belang van het Zoölogisch Museum voor wetenschap en maatschappij. Inaugurele rede Universiteit van Amsterdam, 5 November, 1950:1-17. Amsterdam. (de malacologische passages tevens afgedrukt in *Corr. bl. Ned. malac. Ver.* 37:314).

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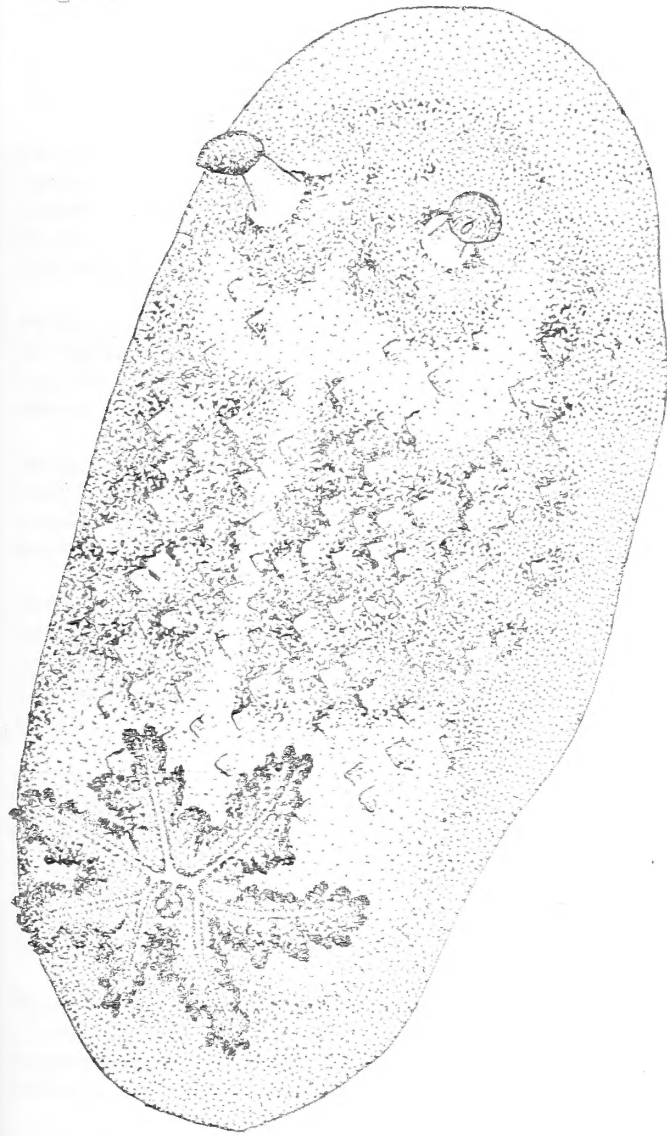
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END





*Thordisa rebescens* Behrens & Henderson, 1981  
 Drawing by Dave Behrens

\* \* \* \* \*

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EDITOR'S NOTES

For the fourth time since 1979, I have changed computer systems. Bobbie and I have purchased an Alpha-Micro system with much more capacity

than my previous system. The usual problems are again here -- learning how to make it do what we want it to do.

This system has all of the capabilities of my last system from Matchmaker Technology, Inc. plus a 10 megabyte hard disk and three terminals for simultaneous multiple users. It is compatible with the system used at the Los Angeles County Museum of Natural History and any system using CP/M<sup>™</sup> operating system.

I also have a small new diazo duplicator to allow copying of entire microfiche in house. This, along with the reader/printer and camera/processors I already have, will allow complete storage and retrieval of *Opisthobranch* literature with film.

Please bear with me. I have one problem with the new computer system. It will not print out from the current word processor to paper so I have to convert everything to a new system. This is causing some delay in the production of the ON issues. Computers are wonderful devices but learning how to make them do what you want to do can be a problem. I will try to get out the current issues of the ON with the old system before I give it up.

\* \* \* \* \*

ADDRESS LIST

These are the most current addresses available to me for each of these people. Please send corrections and additions as soon as possible.

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