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SHELLS AND SEA LIFE

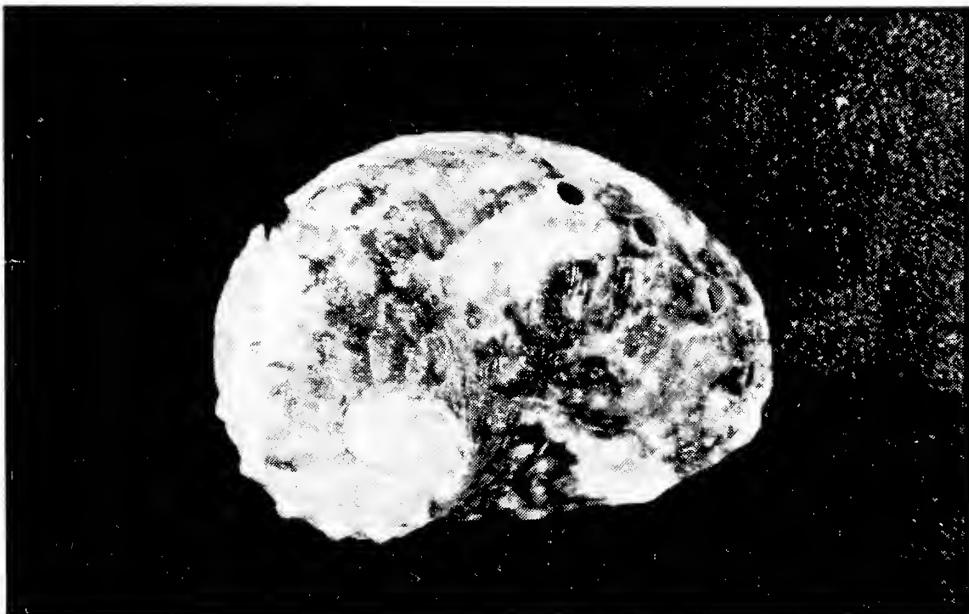
ISSN 0747-6078

December, 1986

Vol. 18, No. 12

Shelling in Truk Lagoon.

Charles E. Bowen, California State Polytechnic University, Chemistry Department, 3801 West Temple Ave., Pomona, California 91768



Haliotis pustulata Photo by C.E. Bowen

Six thousand miles southwest of Los Angeles, California, at 7 degrees north latitude, is a 40-mile long atoll called Truk Lagoon. The lagoon and its more than a dozen islands were the site of one of America's greatest naval battles in World War II. More than 40 Japanese ships lie on the bottom of the lagoon. Although it is now illegal to remove anything attached to the ships, including shells, the numerous coral reefs nearby support a variety of mollusks that can be collected by the adventurous sheller.

Diving near the wrecks within Truk Lagoon is vastly different from California kelp bed diving. With water temperatures of 85°F in the lagoon, a full wetsuit is unnecessary. The visibility in some locations exceeds 100 feet with only a slight current. (e.g. I was able to stand upright on a horizontal deck pipe at 35 feet without hand support.)

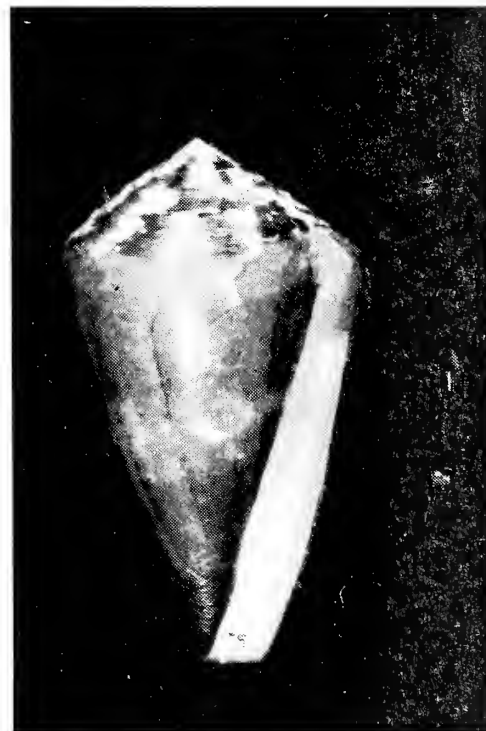
The fluted oyster, *Lopha cristaqualli* is a familiar sight on the wrecks. It can support a surprisingly massive coral structure on the moveable valve and when disturbed this bivalve closes and an entire colony of coral polyps is set into motion, quite a sight. Perusal of the wreck's overgrown superstructure reveals a variety of murex, triton and top shells.

On one dive, an abalone shell, *Haliotis pustulata*, was discovered, which could be the most eastern extension of this species' range reported. According to Clark Graham, manager of Micronesia Aquatics at Truk, abalone are relatively scarce in Truk Lagoon.

Scuba divers aren't the only ones in Truk Lagoon to obtain a variety of interesting shells. By walking or snorkeling the reef, cowries,

cones, top shells and many other mollusks can be found. Two animals indigenous to the shallow lagoon water are *Conus distans* and the finger shell, *Lambis crocata*.

After a day of shelling, snorkeling and sightseeing, I would return to my room in the late afternoon. In the afternoon, small wooden outriggers carry native snorkelers to the edge of the reef where they were visible from my second floor room. As many as 11 people have been seen to fit in the small, wooden vessels. The Truks are carried between the islands in 18-foot boats with 50-horsepower outboards.



Conus distans Photo by C.E. Bowen

SHELLS and SEA LIFE

ISBN 0747-6078

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Bayside, California 95524-9302 U.S.A.

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When the shadows of the afternoon lengthen a single large bat begins its evening ritual. This flying mammal of the night freely flitted from tree to tree in search of some unseen object. As the light grew dimmer and the night sounds became more distinct, I could hear the scurrying of the green lizards in the palm trees, interrupted occasionally by the kissing sounds made by the everpresent geckos. The coconut crabs, whose holes were everywhere, would now commence their nocturnal adventures. During daylight, these crustaceans are seen only briefly since they are very wary.

All too soon it was time to take the shuttle bus to the airport. After a 15 minute ride, we arrived at the single story, white, wooden building that served for check-in, baggage claim, car rental and customs clearance. The town had turned out in large numbers to meet this particular airplane since many on board were students returning to the island's prestigious Xavier High School, which draws the best minds from all of Micronesia. Next it was our turn to depart, and soon I was watching the waves break on the outer reef from the airplane's window. I remembered the three immortal words made famous by another American of an earlier era, "I shall return."

ADDITIONAL READING

Brost, F.B. & R.D. Coale 1981. *A Guide to Collecting in the Kwajalein Atoll*. Charles E. Tuttle Co., Rutland, Vermont & Tokyo, Japan.

Cemohorsky, W.O. 1978. *Tropical Pacific Marine Shells*. Pacific Publications, Sydney, Australia & New York.

Stanley, D. 1985. *Micronesia Handbook*. Moon Publications, Chico, California.



Lambs crocata Photo by C.E. Bowen

New fishy home for mollusks.

R. Tucker Abbott

P.O. Box 2255, Malbourne, FL 32902

Rarely does one discover an entirely new association between mollusks and members of another phylum, much less a vertebrate, but recently a young biology couple, while scuba diving in Okinawa, found a dorid nudibranch seaslug that attaches itself to the fins of a goby fish.

The Datehaze Goby lives in the sandy burrows made by the pistol or snapping shrimp. In six separate cases, a single, blackish, 1/3-inch-long dorid was found firmly attached to the dorsal fin of the 3-inch-long goby. The nudibranch can also survive detached from its host.

Dorids normally feed on sponges, small crustaceans, or the eggs of other sea creatures. What this strange species eats is still a mystery. Any why should it be attached to this kind of fish? Some related gobies nibble off parasites from other fish. These "cleaner fish" have a black stripe. Our host goby, *Amblyeleotris*, does not; but the long, black dorid attached to the dorsal fin may give a camouflaged effect similar to that of the "cleaner fish".

Ernest and Lucy Williams made 39 shallow-water scuba dives near the Sesoko Marine Science Center on N.W. Okinawa in 1985. They illustrated their unique finds in the journal *Venus*, vol. 45, pp. 210-211. Can there be similar cases of such an association in American waters?

Editor's Notes

Thanks to all of you who have supported us during the past year. We have finally dug out from under the Christmas rush. Now on to 1987 and a new look for *SHELLS* and *SEA LIFE*.

The 1987 volume will maintain our standard size but change to three columns throughout to match up with the photo sizes we most often use. Classified ad columns are wider but text and display ads are slightly narrower. Each of our current display advertisers will get an extra month free as a bonus.

We will be doing supplemental publications for longer works. Our first special publication will cover the Alaskan mollusks by Rae Baxter. Rae has spent many years collecting in Alaska and has produced a valuable monograph including land, freshwater, intertidal & benthic mollusks. It will be available in early April, 1987.

Several other publications and directories will be published in the months ahead. One of these will be a publication highlighting clubs, conventions and shows as soon as we get enough response from the individual groups. Several clubs have already sent information and we hope that many more will respond. We need to know all events scheduled for 1987 as well as the basic information on meeting dates, club publications and membership requirements. Other issues under consideration include shell dealers, publications, dive shops and travel resources.

Best wishes for 1987!

Steve & Sally

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SHELLS and *SEA LIFE* accepts notes on any aspect of malacology, fossils or related marine life. Articles should be submitted typed and double-spaced. Reprints are available for purchase. Send for free booklet "Suggestions for Preparing Manuscripts for *SHELLS* and *SEA LIFE*." We undertake no responsibility for unsolicited material sent for possible inclusion in the publication. No material submitted will be returned unless accompanied by return postage and packing.

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NOTE: This is a confession signed by deviant individuals recorded in the book, Radula, found on the planet Gastropodia.

The several stages of deviation observed on this planet have been classified as follows in the chapter "Take Your Hand Off My Shell":

- (1) The purist - planatoid type who is only addicted to self-collected, live taken mollusca. Controlled deviant - considered dangerous. Believes all other deviant types "unclean", "impure". Rigid personality disorder.
- (2) The impurist - self-collected live or dead molluscan forms are acceptable to this disordered personality. Modestly gross aberration. Fairly malleable disorder.
- (3) The selectivist - self-collected or purchased mollusca are acceptable to this twisted mind but are restricted to specific families. Occasional "flareups" observed during which the deviant makes a radical shift to another family. A deluded variant to be handled cautiously during the "mood shift" phase.

(4) The generalist - any specimen, live, dead or freak, self-collected, traded or purchased in any family is sought by this aberrant deviant - "who cares from whence it cometh?" All molluscan forms sought equally and avidly admired. Full blown freak. Affable aberrant individual. Considered weird but non-dangerous.

(5) The fossilist - a disordered personality focused on "oldies but goldies" in the molluscan world. A mildly deranged condition. Considered harmless but capable of digging up and spreading a lot of dirt. To be observed cautiously.

ALL DEVIANTS SHOULD BE REPORTED TO GASTROPODA CENTRAL SHELLACHOLIC LABORATORY FOR REALIGNMENT.

(Need gentle controlled withdrawal treatments with molluscan rewards infused periodically. No known complete cures cited. Acquisition spasms can be modified. Mild resurgent flareups observed; appear lifelong in duration.

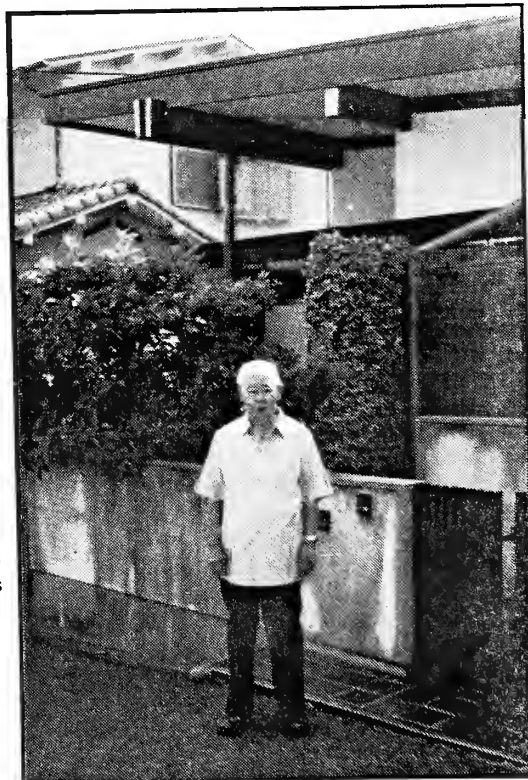
Give 2 Shells And Call In The Morning.

Originally authored by JUNE JONES and appeared in the Shell and Tell News, October 12, 1986

Shellfolk

Dr. Kikutaro Baba has been a long-time supporter of SHELLS and SEA LIFE and the Opisthobranch Newsletter (one of the original group of subscribers). He sent us this picture last year, taken outside his home in Nara-Ken, Japan.

The opisthobranch mollusks are Dr. Baba's specialty and he has published more than 100 articles and notes on the group. He has also published several papers on the solenogasters. We have several of his notes and articles in process for publication in future issues.



on the DRIFTLINE ~ ~ ~

Correction

In my article on micro mollusk collecting in the Caribbean Province, S&SL October, 1986, there was an error in the identification of *Vitrinella texana* Moore, 1965. After an exchange of shells, Dr. Harry G. Lee of Jacksonville, Florida, correctly identified what I had found, as *Solariorbis blakei* (Rehder, 1944).
- JOANNE LIGHTFOOT, PO Box 2295, Sedona, AZ 86336

The Oregon Society of Conchologists

I appreciated receiving a copy of your recent roster of clubs, etc, and looked it over with considerable interest. It will be presented at the next meeting of our Club, which will be in September.

One correction; we have had much trouble in other organizations understanding our correct address. Here is the true address: The Oregon Society of Conchologists, 4324 N.E. 47th Ave., Portland, OR 97218.

We felt it best to use the secretary's address for all communications, as this office seems to have continuity, and the former address is no longer valid in any way.

Our Society has shown good signs of growth this year. We have had some field trips, to Port Orford, Southern Oregon coast, and to the San Juan Islands with divers, etc. A club library has been organized, under Margaret Teskey. Our annual Shell Show, at the Oregon Museum of Science and Industry, will be in late October. As usual, many good awards will be made there. Personally, I am still on the prowl for the more rare abalones, and Xenophoridae as well, subject to cost, availability, condition, etc. Really hard to find!
- Byron W. Travis, Secretary, Oregon Society of Conchologists, 4324 N.E. 47 Ave., Portland, OR 97218

"Galloping" Snails

We noted Roginskaya's (S&SL 17(4):125) "galloping" movement clearly with our local *Helix* species on our front walk during May of this year. - STEVE & SALLY LONG

From New Zealand

I have to agree with Ian Loch's remarks in the March issue of S&SL concerning the range of distribution of *Vexillum (Costellaria) militaris* (Reeve): unless one specializes in a certain group of molluscs, the distributional range of a species is a mystery unless one has studied as many collections as one possibly can, and even then there is always someone, somewhere, who has collected the species in an out of the way place. Readers may be interested to know that *V. (C.) militaris* is known to occur in the Andaman Islands, the Philippines, Papua New Guinea, Northern Australia, the Solomons, and Fiji Islands. It has also been reported from Aden by Shopland and from Japan by A. Adams, however, these records require confirmation since they could have been based on misidentifications.

By the way, in Queensland *V. (C.) militaris* has been collected on Lizard Island, also on Moore Reef, east of Cairns, and Broadhurst Reef, east of Townsville. - WALTER O. CERNOHORSKY, Curator of Malacology, Auckland Institute and Museum, Private Bag, Auckland 1, New Zealand

From Alaska

Collecting of mollusks has slowed down. Was out last night [Nov. 14] but got few mollusks. Winter collecting in Alaska is different. The low tides occur after dark and I used a Coleman gas lantern, both for light and to keep my hands warm. A few species are much more active after dark. These often are species that live deep in the rocks and therefore are much more common in the after-dark collections. The problem is that they stay in the water to keep from freezing so I get ice build-up on my boots wading around collecting. The nice thing is that everything freezes fast, usually expanded, so that I do not have to clean them up right away. Next week or next month is soon enough as long as I leave them outside.

The other thing that makes winter collecting possible is that I have a wood-fired steambath. A big load of wood in the stove makes the bath just right when I get back from collecting half frozen. - RAE BAXTER, PO Box 96, Bethel, AK 99559

Pacific Northwest Shell Club

Yesterday [April 86] 12 of us from the shell club held a chiton study group and potluck lunch at a member's home. Doug Eernessee came down from Friday Harbor to join in. He just finished writing his doctorate on the subject so it was a lively session. Next Sunday for our regular April meeting, Bert Draper is coming up to put on the program. We enjoy sharing all his knowledge on a variety of things. Phil Clover is coming the following month of May and June we are holding the meeting over at Tom Rice's Port Gamble place. The next month of July will be another pot-luck and shell sales of Dorothy Gety's collection from her Port Angeles shop. The proceeds will help benefit Burke Museum at the University of Washington where our member, Elsie Marshall, works so hard with fellow club member Bill Rice's help. August will be our own shell club auction. The main goals of our club are to have fun, share our knowledge in the community and support studies in the field of malacology thru scholarships, museums, Friday Harbor Laboratory etc. We meet on the 3rd Sunday of each month and would love to have you join us while up here if you can. - LOIS LUCUM, 702 Alder, Edmonds, WA 98020

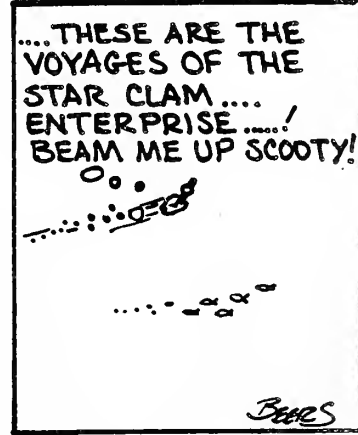
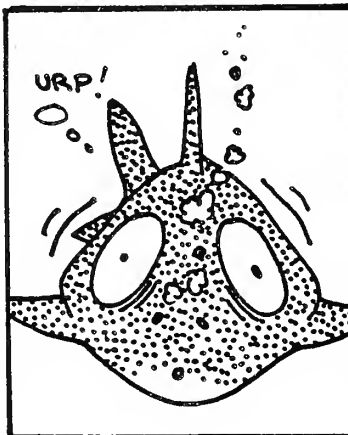
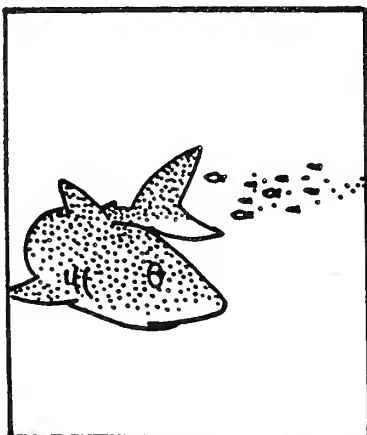
From the West Indies

I have a 19ft fiberglass hull, equipped with a winch, and a davit-pole so I can get dredge-baskets and fish/shell traps in and out of the boat with ease. It's the only boat with dredging capabilities (by virtue of the winch) on the island, so I get to do a little research work for the local Marine Institute run by McGill University when they want deep benthic samples, etc. My interests are Western Atlantic cones, and what murexes I happen to catch locally, but that's about it. I'm into rare shells, since we have several classic spp. here, but that is more because of the business side of my operation. - DAVID HUNT, Gregg Farm, St. Andrew, Barbados, West Indies

Conchological Club of Southern California

Meets 1st Monday of month unless holiday intervenes, then following Wednesday, in Lounge, 7:30pm, Natural History Museum, Los Angeles County, 900 Exposition Blvd., Los Angeles, CA 90007. For information write: HELEN DUSHANE, 15012 El Soneto Dr., Whittier, CA 90605

Clam - by Scooter Beers



Beers

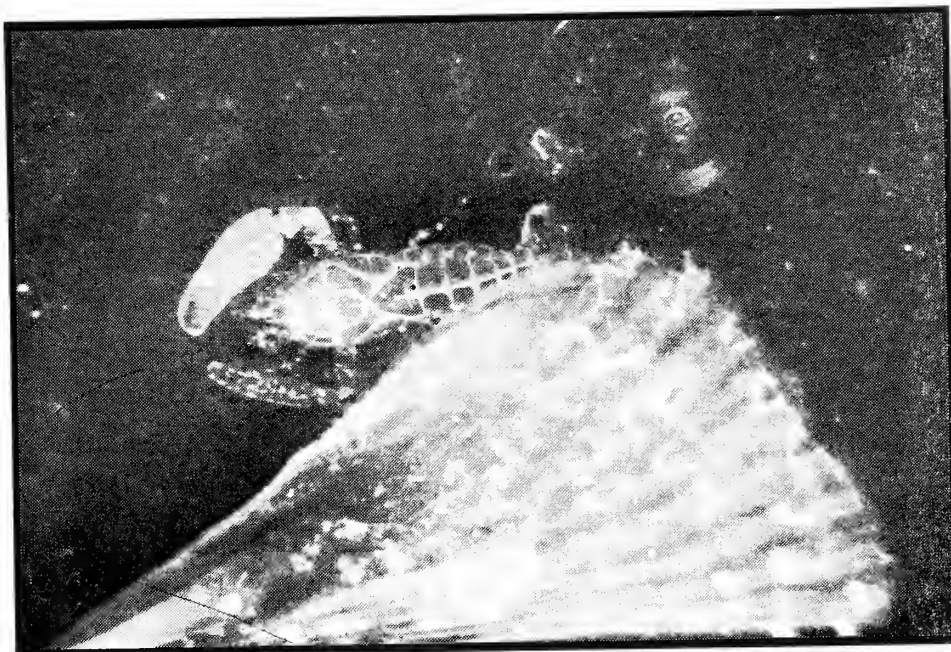
Pen Shells

Peggy Williams

Rt. 3, Box 28, Sarasota, FL 33580

Shells of the family Pinnidae are host to many organisms because of their size and the fact that they are anchored firmly in otherwise shelterless and shifting sand. Barnacles, limpets, tunicates, chitons, and other bivalves commonly attach themselves to the solid shelter of the Pen Shell. Dead shells are host to crabs and fishes as well as many other mollusks and echinoderms.

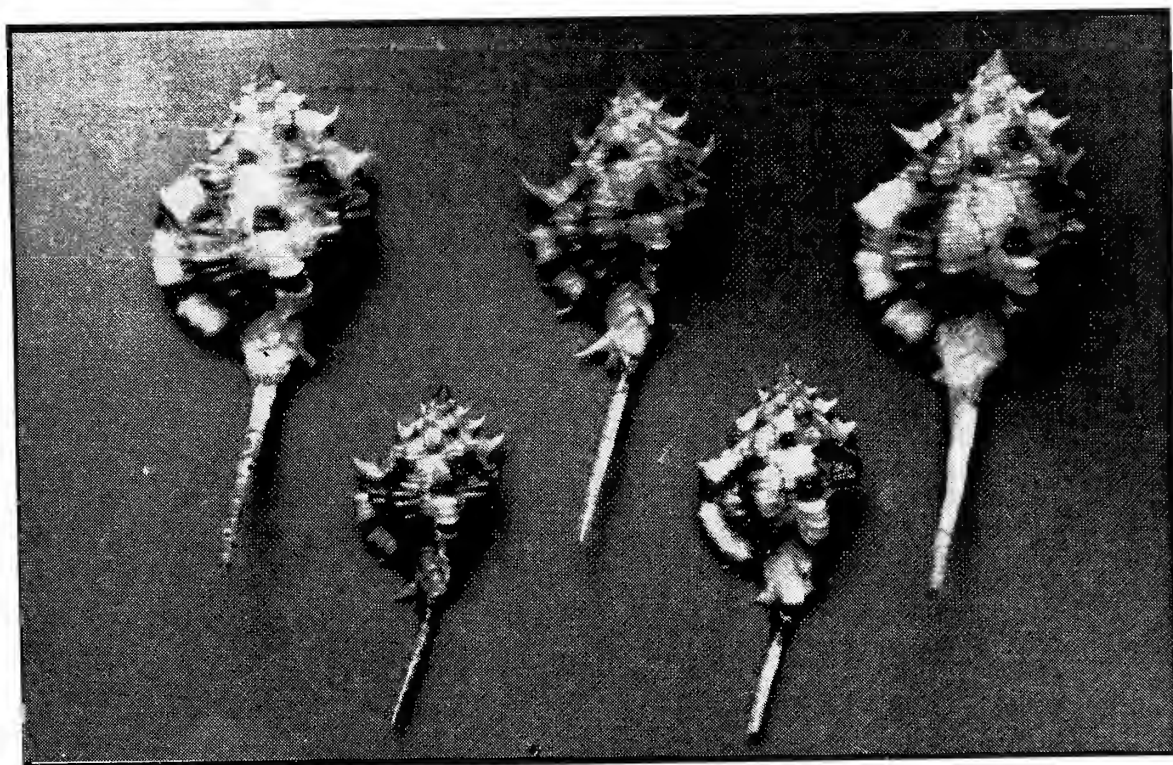
I was surprised to find, in a specimen of *Pinna carneae* Gmelin, 1791 that I collected on Providenciales Island in the Turks and Caicos, a pair of commensal shrimp of the group called "snapping shrimp." These animals have one large claw like a tiny lobster and use it to make a loud snapping noise (in an aquarium it seems the glass has cracked!). The ones in the pen shell were nearly transparent and otherwise colored exactly the lovely amber color of the shell itself. Other specimens of the shell had pairs of shrimp as well.



Murex motacilla (Gmelin, 1791)

David Hunt, Gregg Farm, St. Andrew, Barbados, West Indies.

Live-taken, seasonal, in traps set at depths ranging 100-130m.



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Pilsbry & Olsson, 1952 - Vitrinellidae
Panamic Province: II.
Richardson, Abbott & Davis, 1979 - TRYONIA article
ROSSINIANA (Vol. 1).
Shikama, T. 1964 - Selected Shells of the
World Illustrated in Color, Vol. 1 of 2.
Usticke - any of the private publications on
Caribbean shells.
VELIGER, vols. 1-5, 26
Verrill & Smith, 1874 - invertebrates
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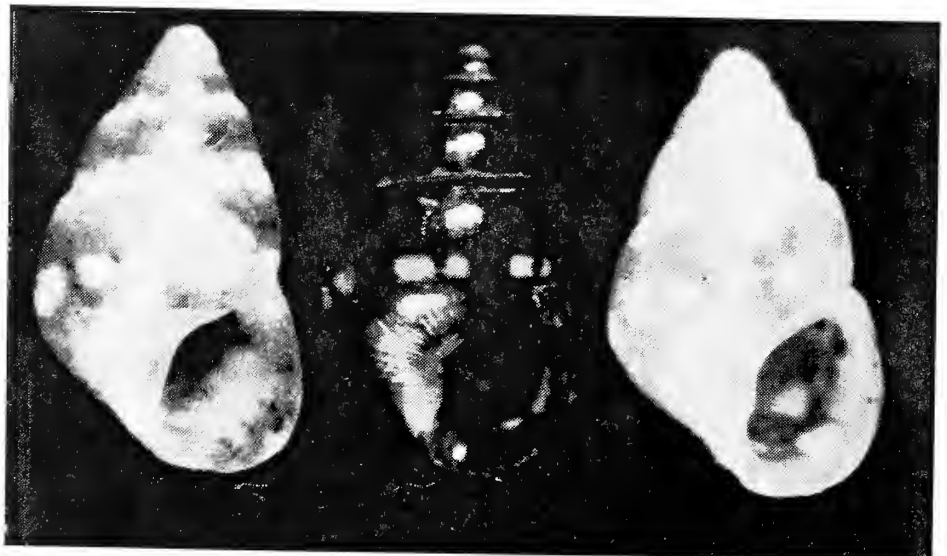
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Minute Shells

Pusillina marmorata (Hedley, 1907)

Specimens from Harbor at Kawaihae, Hawaii from grunge, government dredge in 40-50 ft. leg. B. Draper October, 1981. Largest specimen 1.2mm. Generic placement changed from *Vitricithna* to *Pusillina* by Ponder, 1985. Photo by Bert Draper.



Book News

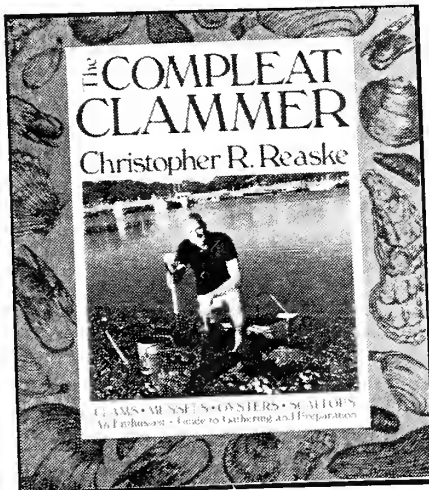
Eisenburg, J.M. 1981. *A collector's guide to seashells of the world.* [Reprinted 1986]. McGraw-Hill Book Co., New York, 239p., 158 color plates, 145 drawings, Hard cover, dust jacket, ISBN 0-07-019140-9. - \$26.95

"All species are listed with their scientific and popular names, geographical distribution, range of sizes, forms, rarity and valuation. In the index all known species of the most popular groups such as cowries, cones, murex, olives and volutes are listed and evaluated. The characteristics of 142 seashell families are described in detail, with an accompanying illustrated identification guide. Nearly all of the shells are illustrated in 2/3 to full scale. The specimens on each full plate are all shown in the same scale. Each major gastropod family is illustrated on a different color background."

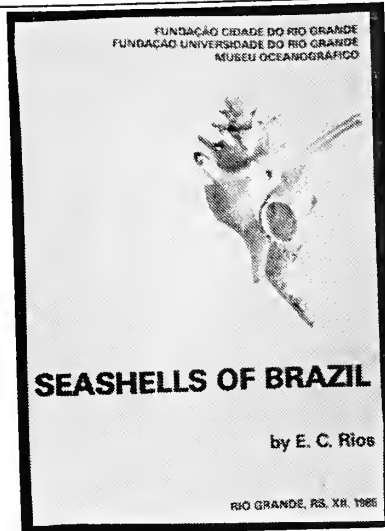
Farley, M.B. & L.K. Farley 1986. *Diver's Guide to Underwater Mexico.* Marco Publishing, Port Huenemen, CA, 270p., color & halftone illustrations, soft cover. - \$14.95

"Diver's Guide to Underwater Mexico is a comprehensive sportdiving guide to the oceans of Mexico...including the Pacific Ocean, the Sea of Cortez, the Caribbean and the Gulf of Mexico. Richly illustrated with detailed maps and beautiful photographs, this book provides detailed dive/travel information for all of the major coastal tourist regions of Mexico. The book contains an up-to-date listing of dive shops, dive sites, charter boats, underwater parks, weather and water conditions, tourist and travel information, and descriptions of the marine life and aquatic environments for each region. This informative guidebook for travelers also features a full color photo section of Mexico's diverse marine life. This book is a valuable tool for planning Mexico trips beforehand; and will also serve as an on-the-spot field guide to Mexico's vast ocean realm."

Petuch, E.J. & D.M. Sargent 1986. *Atlas of the Living Olive Shells of the World.* Coastal Education & Res. Found., Charlottesville, VA, 253p., 39 color plates, figures, tbls. Cloth ISBN 0-938415-00-X - \$68.50



Reaske, C.R. 1986. *The Compleat Clammer.* Clams Mussels Oysters Scallops. An Enthusiast's Guide to Gathering and Preparation. Nick Lyons Books, New York, 152p., illustrations, Hard cover ISBN 0-941130-15-0 - \$16.95; soft cover ISBN 0-941130-11-8 - \$9.95



Rios, E.C. 1986. *Seashells of Brazil.* Museu Oceanográfico, Rio Grande, Brazil, 328p., 102 pls. (1421 illus.), softcover, 8 x 11". - \$30.00

Brazil, the largest country in the Americas, has one of the most diversified and interesting marine faunas. Its long shores are influenced by four major zoogeographical regions -- the colorful, tropical Caribbean province to the north; the temperate, cool Argentinian and Uruguayan influence in the south; the highly endemic Pernambuco subprovince; and the occasional invasion of transatlantic species coming from West Africa.

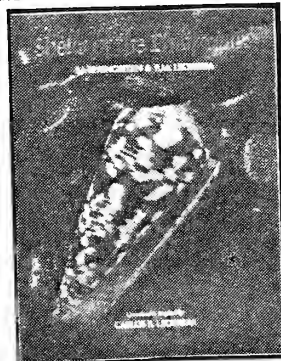
Dr. Eliezer Rios, Director of the Museum of Oceanography in Rio Grande, has met the challenging and massive array of over 1400 Brazilian marine mollusks by now producing a huge new tome with superior photographs of all species, and accompanied by English descriptions and detailed locality and habitual records. There are illustrations of 1000 gastropods, 30 scaphopods, 360 bivalves and 26 species of cephalopods. This book picks up where *American Seashells* leaves off. It is not only a thorough coverage of the Brazilian marine mollusks, but is also a guide to many of the common shells of the Caribbean and Uruguay.

The book is easy to use, with each of the species properly assigned to order, family, genus and subgenus, and with a convenient reference number which allows the user to find quickly the proper photograph among the 102 plates of black-and-white photographs. Authors, dates and synonymies are given for each species, and there is a large bibliography of 800 references to scientific papers dealing with South American marine mollusks -- perhaps the largest ever offered to the public. The index has 4,000 scientific names alone. We are spared the indignity of any new species being proposed in this book.

Despite the brief title, this book will be a useful reference tool and a much-consulted illustrated guide to the shores stretching from the islands of the West Indies to the beaches of northern Argentina. No recent book for its modest price has so much to offer. -- R. TUCKER ABBOTT

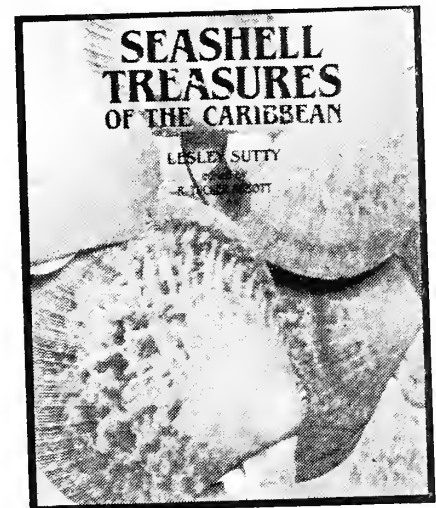
Roberts, M.F. 1984. *Pearl Makers.* The Tidemarch Guide to Clams, Oysters, Mussels and Scallops. Saybrook Press, Old Saybrook, CT, 168p., 66 drawings, flexible cover, ISBN 0-917941-00-4 - \$6.95

It details and discusses the common U.S. east coast shoreline bivalve mollusks and also explains how they are harvested and eaten.



Springsteen, F.J. & F.M. Leobrera 1986. *Shells of the Philippines.* Carfel Seashell Museum, Manila, 377p., 100 color plates, cloth, d/j, ISBN 971-91029-0-x - \$80.00

Sterrer, W. [ed.] 1986. *Marine Fauna and Flora of Bermuda.* John Wiley & Sons, New York, N.Y., 742p., color and halftone plates, many hundred line drawings, hard cover, dust jacket. \$99.95



Suttly, L. 1986. *Seashell Treasures of the Caribbean.* [edited by R. Tucker Abbott] Dutton, New York, 128p., 138 color plates, cloth, dust jacket, ISBN 0525-24411-5 - \$19.95

"From the undersea gardens of the Windward Islands come some of nature's finest treasures. Unlike most shell books, this one has beauty, romance, and adventure. It is a splendid example of how a nature lover and ocean enthusiast can delve into the unknown lives of West Indian mollusks and relay her enthusiasm to others.

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Publications listed here have recently been received by SHELLS and SEA LIFE. We welcome copies of any publication on marine life and will list them here as space permits. Almost all can be ordered from the publisher. Many of these are also available from Seashell Treasures Books (1701 Hyland St., Bayside, CA 95524.) Prices are in U.S. dollars unless otherwise noted and are subject to change without notice. Postage and handling is a minimum of \$3.00 additional.

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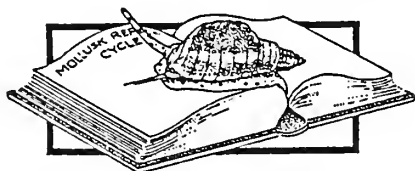


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Southwest Florida Shell Show, January 16-18, Fort Myers.
Contact: John Vaughan, Box 05962, Tice, FL 33905, (813) 693-1913.

Astronaut Trail Shell Show, January 23-25, Melbourne
Auditorium, Melbourne, Florida. Contact: Bobbi & Jim Cordy,
385 Needle Blvd., Merritt Island, FL 32952, (305) 452-5736 or:
Doris Underwood, 9022 Brighton Court, W. Melbourne, FL
32904, (305) 724-2449.

FEBRUARY

Greater Miami Shell Show, January 30-February 1, North
Miami Armory. Contact: Beverly Larson, 8850 Byron Ave.,
Surfside, FL 33154, (305) 868-0145.

Broward County Shell Show, February 6-8, Pompano Beach.
Contact: Richard Sedlak, 4501 S.W. 30th Way, Ft. Lauderdale,
FL 33312, (305) 989-8051.

St. Petersburg Shell Show, February 14-15, Treasure Island.
Contact: Bob & Betty Lipe, 440 75th Ave., St. Petersburg
Beach, FL 33706, (813) 360-0586.

Sarasota Shell Show, February 20-22, Sarasota, Florida.
Contact: Betty E. Hamilton, 1240 Primrose, Venice, FL 33595,
(813) 497-2809.

Naples Shell Show, February 20-22, Naples, Florida.
Contact: Terry Fitzgerald, 660 York Terrace, Naples, FL 33942,
(813) 598-2579.

MARCH

Third California Islands Symposium, March 3-5. Contact:
Dr. Eric Hochberg, Santa Barbara Museum of Natural History,
2559 Puesta Del Sol Rd., Santa Barbara, CA 93105, Phone:
(805) 682-4711.

Sanibel Shell Fair, March 5-8, Sanibel Island, Florida.
Contact: Ralph Moore, 1214 Gulf Dr., Apt. E2, Sanibel, FL
33957, (813) 472-4202.

Film Symposium, March 11, New York City. Contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

Marco Island Shell Show, March 10-12, Marco Island, Florida.
Contact: Evelyn & Malcolm Currier, 809 Dandelion Ct., Marco
Island, FL 33937, (813) 394-7898.

Shellarama 87, March 13-15, Sea World, Orlando, Florida.
Contact: Dave Green, Central Florida Shell Club, 5883 Pitch
Pine Dr., Orlando, FL 32819, (305) 345-0286.

Oyster Dive I, Chesapeake Bay, March 21, contact American
Littoral Society, Highlands, New Jersey 07732. (201) 291-0555

APRIL

Belize: Rain Forest and River, April 4-11, contact American
Littoral Society, Highlands, New Jersey 07732. (201) 291-0555

Cumberland Island Camping, April 19-24, contact American
Littoral Society, Highlands, New Jersey 07732. (201) 291-0555

Dismal Swamp Canoe/Camp, April 29-May 3, contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

MAY

Cape Cod Whale Watch, May 15-17, contact American
Littoral Society, Highlands, New Jersey 07732. (201) 291-0555

Red Knots/Horshoe Crabs, Delaware Bay, May 17, contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

JUNE

Pine Barrens Weekend I, June 5-7, contact American Littoral
Society, Highlands, New Jersey 07732. (201) 291-0555

Maine Coast Weekend, June 11-14, contact American
Littoral Society, Highlands, New Jersey 07732. (201) 291-0555

Montauk Weekend, June 19-21, contact American Littoral
Society, Highlands, New Jersey 07732. (201) 291-0555

SIC87, 6^{ème} Salon International du Coquillage, June 20-21,
Lausanne, Switzerland. Contact Dr. Ted W. Baer, CH-1602 La
Croix, Switzerland. Phone (0)21 39 37 71.

Western Society of Malacologists, June 21-25, 20th Annual
Meeting, San Diego State University, San Diego. Contact:
Carole M. Hertz, San Diego Natural History Museum, PO Box
1390, San Diego, CA 92112, (619) 232-3821 ext. 228.

Gulf Stream Billfish Tagging, Hatteras, June 28, contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

JULY

Wreck Diving I, July 12, contact American Littoral Society,
Highlands, New Jersey 07732. (201) 291-0555

Island Ecology, Isle of Shoals, July 17-20, contact American
Littoral Society, Highlands, New Jersey 07732. (201) 291-0555

Shark Tagging, July 18, contact American Littoral Society,
Highlands, New Jersey 07732. (201) 291-0555

AUGUST

Annual Crab Feast, Oxford, Maryland, August 2, contact
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Wreck Diving II, August 9, contact American Littoral Society,
Highlands, New Jersey 07732. (201) 291-0555

SEPTEMBER

Pine Barrens Weekend II, September 11-13, contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

Wreck Diving III, September 20, contact American Littoral
Society, Highlands, New Jersey 07732. (201) 291-0555

Cape May Birding Weekend I, September 25-27, contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

OCTOBER

American Littoral Society, 26th Annual Meeting (Tentative),
October 9-12, contact American Littoral Society, Highlands,
New Jersey 07732. (201) 291-0555

Cape May Birding Weekend II, October 16-18, contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

NOVEMBER

Suwannee River Canoe/Camp, November 4-8, contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

Assateague Fall Weekend, November 19-22, contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

Bonaire Dive/Study, November 20-27, contact American
Littoral Society, Highlands, New Jersey 07732. (201) 291-0555

Oyster Dive II, Chesapeake Bay, November 21, contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

DECEMBER

Diver's Environmental Institute, December 6, contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

Sanibel/Captiva Week, Florida, December 12-19, contact
American Littoral Society, Highlands, New Jersey 07732.
(201) 291-0555

Western Society of Naturalists, December 27-30, California
State University, Long Beach, California. Dr. Don Reish will be
the local chairman.

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MOLLUSKS

Abbott, R.T. [ed.] 1979. *Indexes to The Nautilus: Geographical (Vols. 1-90) and Scientific Names (Vols. 61-90)*. American Malacologists, Melbourne, Florida p. i-iv + 1-238, 8 x 10.5" cloth, fine. - \$18.50

American Malacological Union 1943-1966. *Annual Reports and Bulletin of AMU and American Malacological Union Bulletin*. 32 reports in original wraps., various sizes, 1943, 1956-1981, Index 1934-1974, Vol. 1 & 3-4 of AMU Bull. Some soiling, especially on earliest reports. All text good condition. - \$350.00

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Bartsch, P. 1932. *The Philippine Land Mollusks of the Genus Opisthoporus*. Proc. USNM 6(6):323-327, pls. 81-82, 8vo wraps. uncut. - \$3.00

PALEONTOLOGY GEOLOGY

Guzman, E.J. 1956. *XX Congreso Geologico Internacional. Symposium sobre yacimientos de petroleo y gas*. Proceedings, 5 vol. 8vo wraps in cloth storage box (box worn). Over 1700 pages with fold-out illustrations and text figures. Contents fine condition. - \$175.00

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INVERTEBRATES

Ashmead, W.H. *Descriptions of new Hymenoptera from Japan*. Proc. USNM 30(1448):169-201, pls. 12-15, 8vo new wraps. - \$5.20

Clarke, J.F.G. 1965. *Microlepidoptera of Juan Fernandez Islands*. Proc. USNM 117(3508):1-105, pl. 1, figs. 1-111, 8vo new wraps. - \$11.60

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Fouts, R.M. *Revision of the North American wasps of the subfamily Platygasterinae*. Proc. USNM 63(2484):1-145, pl. 1, figs. 1-10, 8vo new wraps. - \$15.00

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Metcalf, M.M. 1940. *Further studies on the opalinid ciliate infusorians and their hosts*. Proc. USNM 87(3077):465-634, figs. 21-157, 8vo new wraps. - \$17.50

Ritter, W.E. *The simple ascidians from the Northeastern Pacific in the collection of the United States National Museum*. Proc. USNM 45(1989):427-505, pls. 33-36, tpls., 8vo new wraps. - \$9.80

Rohwer, S.A. *Descriptions of new species of wasps with notes on described species*. Proc. USNM 40(1837):551-587, 8vo new wraps. - \$3.60

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U.S. Department of Agriculture 1974. *Shopper's Guide. 1974 Yearbook of Agriculture*. U.S. Dept. Agriculture, 358p., many illustrations & photos, 8vo cloth, soiled spine, otherwise very good. - \$17.50

U.S. Department of Commerce 1943. *United States Coast Pilot. Alaska Part I. Dixon Entrance to Yakutat Bay*. 9th ed. U.S. Dept. Commerce, xii + 466, fold out color map. Also 7 page supplement loose in front, cr4to cloth. - \$38.50

Wahlstrom, E.E. 1979. *Optical Crystallography*. 5th Ed. John Wiley & Sons, New York, 488p., many illus., roy8vo cloth, worn. - \$19.50

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