

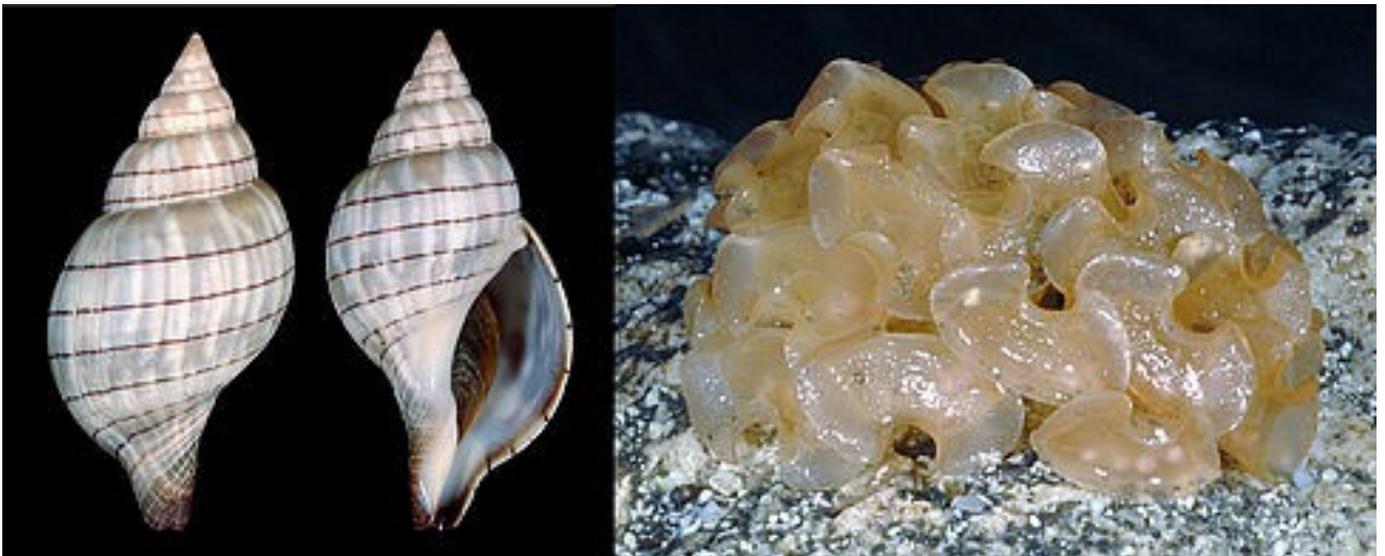
Tidelines

September 2018

St. Petersburg Shell Club, Inc.

Web site: stpeteshellclub.org

Shell Club meetings are held on the first Friday of the month, except June, July and August, at the **Seminole Recreation Center, 9100 113th Street North, Seminole**. The doors open at 6:30p.m. and the meetings start at 7:00 p.m. The public is always invited.



The Banded Tulip

By Dr. José H. Leal

From the Blog of the Bailey-Matthews National Shell Museum, October 30, 2015

The Banded Tulip, *Cinctura hunteria* (G. Perry, 1811), is one of the largest and most attractive marine snails found along the barrier islands of Southwest Florida. The species, which may reach in excess of 4 inches in size, is also present in other parts of the Gulf of Mexico, eastern Florida, and northern Caribbean Sea. The smooth, tulip-shaped shell is characterized by the widely spaced, brownish spiral lines set against a light gray background color. The species is related to the True Tulip, *Fasciolaria tulipa* (Linnaeus, 1758). This latter is a much larger species, reaching about 8 inches, and having a shell with reddish-brown background color with more numerous and more tightly set spiral lines. Banded Tulips are predators, feeding on smaller mollusks. The photo on the right depicts a cluster of egg capsules laid by a Banded Tulip in the Museum live tank; the Banded Tulip egg capsules look like smaller versions of those of the True Tulip, minus the frilled edges typical of the capsules laid by this latter species.

Photos by José H. Leal



A MESSAGE FROM THE DESK OF YOUR PRESIDENT

Hi all,
I am looking forward to our meetings starting up again. Talking story, showing off finds from the summer hiatus, and just enjoying the company of fellow collectors.

As I mentioned in the May issue of the Tidelines, your club needs some assistance for this year. A Financial Award committee, a Nominating committee, and a Shell Show committee are needed. The Shell Show needs a lot of help to make the event work.

A major molluscan event will be occurring Nov 12-16, 2018 in St. Petersburg, Florida: the Cephalopod International Advisory Council Conference.

cephalopod.wordpress.com/ciac-2018-st-petersburg-florida-usa/

While registration is now closed, it's wonderful that our area was chosen for such an event. The above web site gives you all the info.

Looking forward to seeing you all at the upcoming meetings.

John



Club Officers and Committees

President John Jacobs; Vice President Robert Gould; Recording Secretary Toni Treadway & Sandy Boddy; Treasurer Tamara Hein; Newsletter Editor Cheryl Jacobs; Directors at Large: Peggy Dill, Marilyn Wall, Jane McKinney, Otis Taylor; COA Representative John Jacobs; Refreshments Bob Holzworth; Photographer John Jacobs; Field Trips Entire Board; Corresponding Secretary open, Shell Show Cheryl Jacobs; Annual Picnic the Board; Raffle/Door Prizes Cheryl Jacobs & Peggy Dill; Facebook Cheryl Jacobs; Webmaster Cheryl Jacobs.

Tides are for Mullet Key Channel (Skyway). Other specific locations may be up to 2 hours later or earlier. Listings from saltwatertides.com.

Forecast Minus Tides

Sep

No minus tides

Oct

No minus tides until

27 Sat 8:42AM -0.1

28 Sun 9:36AM -0.1

Nov

8 Thu 6:24AM -0.1

9 Fri 7:02AM -0.2

10 Sat 7:42AM -0.2

11 Sun 8:25AM -0.1

22 Thu 5:25AM -0.2

23 Fri 6:06AM -0.4

24 Sat 6:51AM -0.5

25 Sun 7:40AM -0.5

26 Mon 8:34AM -0.5

27 Tue 9:32AM -0.4

28 Wed 10:34AM -0.2

29 Thu 11:37AM -0.1

Dec

4 Tue 4:18AM -0.1

5 Wed 5:01AM -0.3

6 Thu 5:40AM -0.4

7 Fri 6:16AM -0.5

8 Sat 6:52AM -0.5

9 Sun 7:28AM -0.5

10 Mon 8:05AM -0.4

11 Tue 8:45AM -0.3

12 Wed 9:28AM -0.2

13 Thu 10:14AM -0.1

19 Wed 3:45AM -0.2

20 Thu 4:30AM -0.4

21 Fri 5:15AM -0.6

22 Sat 6:01AM -0.7

23 Sun 6:48AM -0.8

24 Mon 7:36AM -0.8

25 Tue 8:25AM -0.7

26 Wed 9:15AM -0.6

27 Thu 10:04AM -0.3

28 Fri 10:53AM -0.1

See you next year!

Upcoming Club Meetings

6:30pm Meet and Greet, 7pm Meeting

Sep 4 Meeting of Suncoast

Conchologists

Sep 7 Regular Meeting this is the first meeting of the season. Robert G. has some show and tell and John has a recap of our Summer trip.

Sep 8 Tampa Bay Fossil Club Meeting

Oct 2 Meeting of Suncoast

Conchologists

Oct 5 Regular Meeting tba.

Oct 6 Tampa Bay Fossil Club Meeting

Oct 13 Field trip We are going to the Vulcan mine see article below.

Nov 2 Regular Meeting tba

Nov 3 Tampa Bay Fossil Club Meeting

Nov 6 Meeting of Suncoast
Conchologists

UPCOMING SHELL SHOWS & RELATED EVENTS

Sept. 28 - 30 **NORTH CAROLINA SHELL SHOW**, Wilmington, NC
(New Venue: Coastline Conference & Event Center, 501 Nutt Street) Karlynn Morgan, 3098 Shannon Dr., Winston-Salem, NC 27106-3647 E-mail: karlynnmorgan@earthlink.net Web site: www.ncshellclub.com

Oct. 27-28 **PHILADELPHIA SHELL SHOW**, Philadelphia, PA
Academy of Natural Sciences, Parkway & 19th St. Paul Callomon,
E-mail: prc44@drexel.edu Web site: www.phillyshellclub.org

Jan 12-13, 2019 **54th ANNUAL BROWARD SHELL SHOW**,
Pompano Beach, FL Emma Lou Olson Civic Center. 1801 NE 6th
Street, Pompano Beach. Alice Pace E-mail: alicepace90.aat.net
Web site: www.browardshellclub.org

Jan 19-20, 2019 **39th SEASHELL FESTIVAL ASTRONAUT
TRAIL SHELL CLUB**, Melbourne, FL Eau Gallie Civic Center.
1551 Highland Ave, Melbourne. Alan Gettleman E-mail:
lychee@cfl.rr.com

Feb 22-23, 2019 **ST PETE SHELL SHOW**, This is our show and
the set up is on Feb 21st. Don't forget to sign up to help out.

Field trip:

Vulcan Mine Field Trip

October 13, 2018

Meet at 8:30, going in at 9am (Once we have gone into the pit, the gate will be closed, so don't be late! You will NOT be allowed in after the gate is closed.) We all leave at the same time.

Address: 16313 Ponce de Leon Blvd, Brooksville, FL

This is a fossil collecting trip primarily for echinoids such as sea urchins, sea biscuits, and sand dollars.

A waiver will be signed by all attendees (will have at the meeting and at Vulcan).

There is no bathroom where we will be at **so go before you arrive**.

Wear hat, sunscreen, closed toe shoes. Bring bucket, screwdriver, hammer, chisels, trowel, etc.

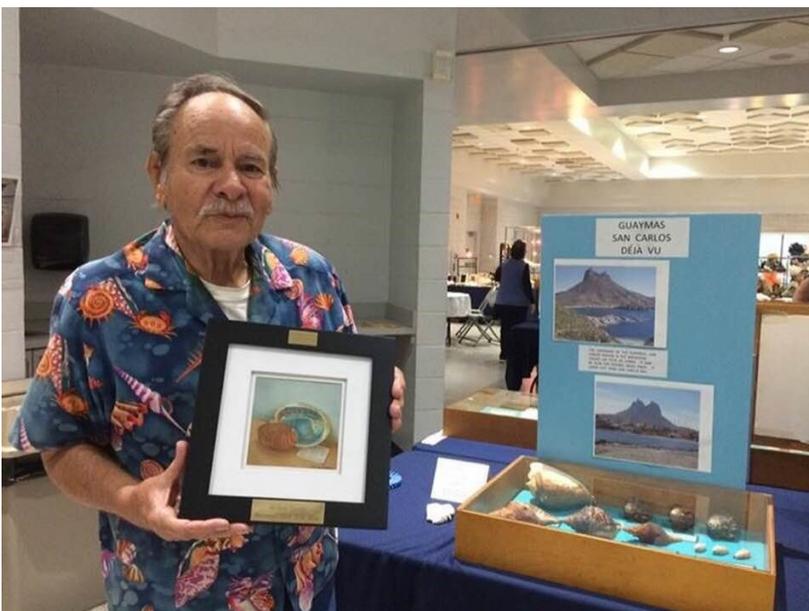
Contact John Jacobs 813-309-2608 or 309-0295, email johncheryl@earthlink.net

In Memorium

Jim Cordy passed in August.

Jim was visiting the Eleuthera in the Bahamas and shelling in Half Sound Bay, a place that he loved. President of the Astronaut Trail Shell Club and avid sheller. He has given programs at our meetings, Judged and exhibited in our Show and many others. Over the years he discovered 2 new species from Eleuthera. *Volvarina jimcordyi* and *Volvarina cordyorum*.

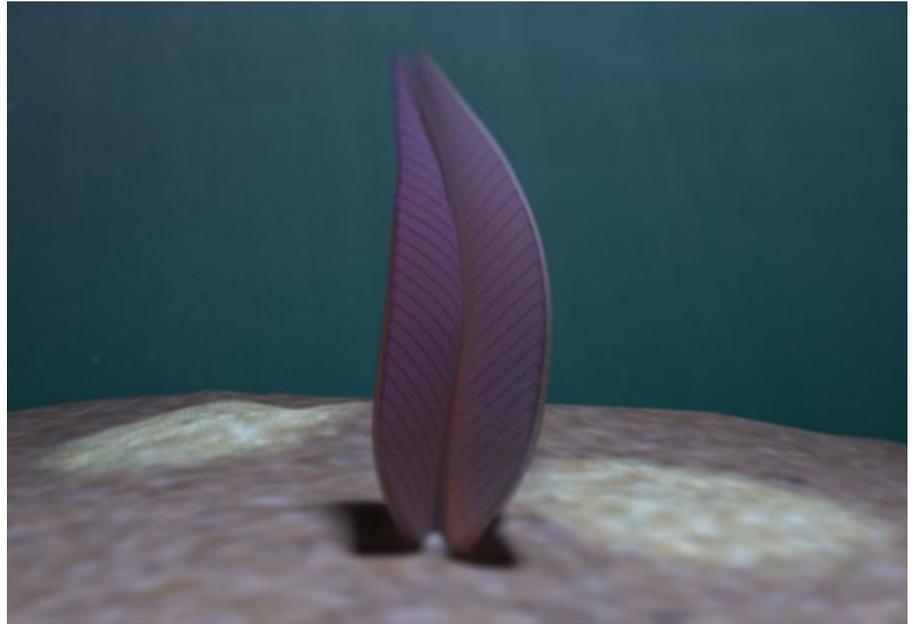
Picture at the 2018 ATSC Shell Show where he won the DuPont Award. Picture taken by Shelia Nugent.



These half-billion-year-old creatures were animals--but unlike any known today

By Colin Barras in Science Aug 8, 2018 online www.sciencemag.org
Found as a FB post.

Artist's reconstruction of *Stromatoveris*, an ancient marine animal. J. Hoyal Cuthill



So-called Ediacaran organisms have puzzled biologists for decades. To the untrained eye they look like fossilized plants, in tube or frond shapes up to 2 meters long. These strange life forms dominated Earth's seas half a billion years ago, and scientists have long struggled to figure out whether they're algae, fungi, or even an entirely different kingdom of life that failed to survive. Now, two paleontologists think they have finally established the identity of the mysterious creatures: They were animals, some of which could move around, but they were unlike any living on Earth today.

Scientists first discovered the Ediacaran organisms in 1946 in South Australia's Ediacara Hills. To date, researchers have identified about 200 different types in ancient rocks across the world. Almost all appear to have died out by 541 million years ago, just before fossils of familiar animals like sponges and the ancestors of crabs and lobsters appeared in an event dubbed the Cambrian explosion. One reason these creatures have proved so tricky to place in the tree of life is that some of them had an anatomy unique in nature. Their bodies were made up of branched fronds with a strange fractal architecture, in which the frond subunits resembled small versions of the whole frond.

Jennifer Hoyal Cuthill at the Tokyo Institute of Technology and the University of Cambridge in the United Kingdom and Jian Han at Northwest University in Xi'an, China, have now found key evidence that the Ediacaran organisms were animals. They analyzed more than 200 fossils of a 518-million-year-old marine species named *Stromatoveris psygmoglena*. Paleontologists had previously concluded that the 10-centimeter-tall species was some sort of animal—in part, says Hoyal Cuthill, because it was found alongside other known animals, and all of the fossils are preserved in a similar way. Hoyal Cuthill and Han argue *S. psygmoglena* was also an Ediacaran organism, a rare “survivor” that somehow clung on through the Cambrian explosion.

The *Stromatoveris* fossils, which were all unearthed in Yunnan province in southwestern China, are beautifully preserved, Hoyal Cuthill says. As she examined specimen after specimen she became increasingly excited. “I began thinking: My goodness, I've seen these features before.” Like some of the strange Ediacaran organisms, *Stromatoveris* was made up of several radially repeated, branched fronds with a fractal internal architecture.

A fossil of one of the 200 or so types of *Stromatoveris* J. Hoyal Cuthill



Continued on page 5

To find out what sort of animals *Stromatoveris* and the other Ediacaran organisms were, Hoyal Cuthill and Han ran a computer analysis that uses anatomical features to reconstruct evolutionary relationships. They found that *Stromatoveris* and the other Ediacaran organisms don't belong to any living animal group or "phylum." Instead, they cluster on their own branch in the animal evolutionary tree, between the sponges and complex animals with a digestive cavity like worms, mollusks, and vertebrates, the team reports today in *Palaeontology*. "This branch, the Petalonamae, could well be its own phylum, and it apparently lacks any living descendants," Hoyal Cuthill says.

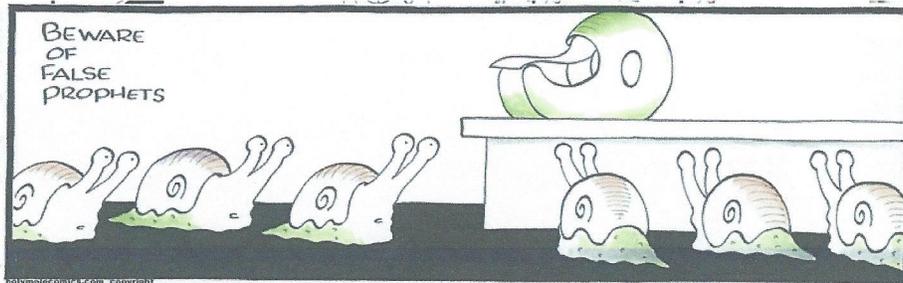
"It looks very likely [the Ediacaran organisms] are animals," says Simon Conway Morris, a paleontologist at the University of Cambridge, who worked with Han on the first description of *Stromatoveris* in 2006, but who was not involved in the current study. At that point there were just a handful of known *Stromatoveris* fossils. The researchers argued that they were similar to some Ediacaran organisms, although others later questioned that link. Conway Morris says the new study "extends the story very nicely" by exploring the Ediacaran nature of *Stromatoveris* in more detail.

Geobiologist Simon Darroch at Vanderbilt University in Nashville is also comfortable with the idea that the Ediacaran organisms were animals and that a few survived into the Cambrian. But on a first look he is not convinced that *Stromatoveris* was one such survivor; he thinks the evidence that it had the fractal architecture of an Ediacaran organism isn't strong—yet he's open to persuasion.

If the new conclusion settles one mystery, though, it introduces another. The Ediacaran organisms represent the first major explosion of complex life on Earth, and they thrived for 30 million years. Their demise has been linked to the appearance of animals in the Cambrian Explosion, Hoyal Cuthill says. But that simple explanation doesn't work as well if Ediacaran organisms were animals themselves, and some were still alive tens of millions of years later. "It's not quite so neat anymore," she says. "As to what led to their eventual extinction I think it's very hard to say."

Editors note: I hope you enjoyed this article of something very different. cjacobs

HOLY MOLE 2016



THE SHELL COLLECTOR'S CODE OF ETHICS

I realize that molluscs are part of our precious national wildlife resources, therefore:

I WILL make every effort to protect and preserve them not only for my own future enjoyment, but for the benefit of generations to come.

I WILL always leave every shelling spot as undisturbed as possible.

I WILL take only those specimens needed for my collection and for exchange at the time... Shells in a box cannot reproduce while I am waiting for a place to send them.

I WILL leave behind the damaged and the young specimens so that they may live and multiply.

I WILL NOT collect live egg cases unless they are to be used for study, and then, only in small quantities.

I WILL NEVER "clean out a colony" of shells.

I WILL practice and promote these conservation rules in every way possible.

Some recent finds from O'ahu, Hawai'i
John Jacobs



Fossil land shells on base of Diamond Head



Fossil cone from Mokapu Peninsula: *Conus abbreviatus* Reeve, 1893



Live *Nerita picea* Récluz, 1841, Mokapu Peninsula



Live *Neothais harpa* (Conrad, 1837), Mokapu Peninsula

Fossil *Cypraea Isabella* Linnaeus, 1758, Kahe Beach Park



MEMBER NEWS

Send in any member news to Cheryl Jacobs
Email stpeteshellclub@gmail.com

Would you like to have your picture in the Directory? If so please email or send us a picture. We can scan in and return your picture to you. You can also bring it to a meeting. Would love to have everyone pictured. We can then put a face to a name. Thank you.

Would anyone like to be our corresponding secretary? Duties would be to send out Birthday Cards, Get Well Cards and Sympathy Cards to our members. If you would be interested contact Cheryl Jacobs at stpeteshellclub@gmail.com

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Happy Birthdays

Sep

2 – Otis Taylor
4 – Wendy Spearman
4 – Matt Spearman
10 – Linda Taylor
11 – Sharlene Totten
20 – Robert Marchiselli

Oct

11 – Barbara Fite
19 – Doug Thompson
21 – Earl Petrikin
21 – Peggy Dill
24 – Meredith Myers
26 – Dolores Seagren

Nov

4 – Rob Geater
7 – Isabel McKinney
7 – Gail Haseley
9 – Carolyn Petrikin
11 – Robert Holzworth
13 – Marilyn Myers
14 – Toni Rose Treadway
21 – Tony Eyl



St. Petersburg Shell Club, Inc.
Founded 1936
Annual Dues: Individual \$15.00
Family \$20 (1 copy of TIDELINES per household)

Meetings are held on the 1st Friday of the month, except June, July and August, at the **Seminole Recreation Center, 9100 113th Street North, Seminole**. Meetings start at 7:00p.m. and include educational short programs, social times, opportunities to identify shells, and a main program on some aspect of the shell collecting hobby. The club publishes "**TIDELINES**" 5-6 times a year with a special edition at Shell Show time. The membership year begins Jan 1st and dues are delinquent after Apr 1st. Please make your check payable to the St. Petersburg Shell Club.

Return the application to the membership chairperson at the address below.

Please complete—Detach and Return

New Member: Individual _____ Family _____
 Renewal: Individual _____ Family _____

Name: _____ Phone: _____

Address: _____ Apt# _____

City, State, Zip: _____

E-mail: _____

Birthday: _____ Shell Interests: _____

If you use another address part of the year, please list where & when here:

Donation to the Awards and Ribbons Fund for the Shell Show

Print as you want to be listed.

Return to: Membership Chairperson
 P. O. Box 3472
 Seminole, FL 33775-3472

| | |
|-------------------------|-----------------|
| | Total Enclosed: |
| Membership | \$ _____ |
| Awards and Ribbons Fund | \$ _____ |
| Total | \$ _____ |

E-mail: stpeteshellclub@gmail.com
 Web site: stpeteshellclub.org
 Like us on Facebook

Show 'n Tell

Bring that special shell to the meeting and talk for a few minutes about it. What was it that appealed to you about that specimen? Was it the color, the family, the location it came from?

Do you have a question on the identification of a shell? Whatever the reason, Blow your horn, show it off.



HOW CAN I HELP



It is time to have elections this year. Have you thought about helping the club by being an Officer, Board Member or on the Nominating Committee? PLEASE....step forward and help your club.

Other committee positions are also available.

Contact John Jacobs if you wish to help
johncheryl@earthlink.net