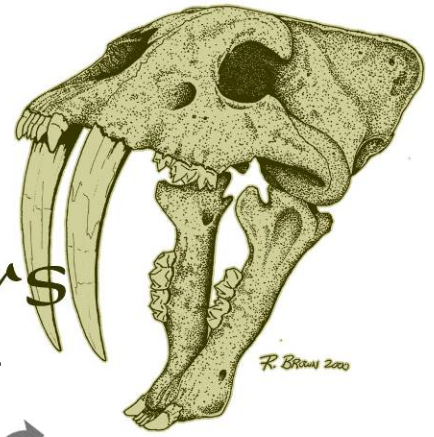


NEWS

Florida Fossil Hunters

Florida Prehistorical Museum, Inc. dba/ Florida Fossil Hunters
Volume 24, Number 7

August 2014



2014 Fossil Fair—October 18th & 19th

From the President....

In June we had a good turnout for Kids' Blast where we looked at and talked about different animal skulls. Then we had our Fossil Buck Auction. Believe me when I say members went home with some new treasures....at a cheap price.

July 19th was Dave Dunaway's "Fossils at the Fort". Bonnie tells me there was lots of good food, great conversation, fossils to look at, and the kids had a fun time in the Fort where they jailed the "chicken thief".

In August, while it's dog-hot and raining bringing up the water levels in the rivers, the club will have a Sunday trip to Chris DeLorey's Paleo Prep Labs. Chris has two warehouses which he has connected for fossil, skeleton, "you name it" prep labs. Details and directions inside this issue.

Then on Saturday, August 16th, we'll have our regular meeting at 3 pm (Kids' Blast at 2pm). It's a display event, so bring some of your fossils to show everyone. All of us love looking at fossils and learning about different ones, so don't forget to bring yours.

Sept. 20th is the date for MOAS Natural History Day (Museum of Arts & Sciences in Daytona Beach). This has become an annual event that our club participates in with fossils on display and members to talk to the visitors.

October 18th & 19th is the club's annual Fossil Fair. Please commit and volunteer early so we can cover all the areas and you can pick which one you'd like to help at.

In other news, Bonnie beat another t-shirt design out of me. Sharks is the theme and you can see what it looks like inside. Order yours early.... what extras we get sell out fast.

Hope to see you at some of the fantastic events coming up.

Russell Brown
President

Coming Events

UPCOMING MEETINGS at the Orlando Science Center

Saturday, August 16th
2 pm Kids' Fossil Blast
3 pm Meeting & Display Day

Saturday, September 20th
FFH Meeting & Speaker

Saturday, October 11th
Vulcan Mine

October 18th & 19th
FFH Fossil Fair

More events listed on back page

For more info...
www.floridafossilhunters.com

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Join Our Facebook group, Search:
Florida Fossil Hunters



Florida Fossil Hunters News

Fragments

Fossil & Gem Museum

Shell Factory and Nature Park, North Fort Myers

Pam Plummer has been spearheading the display of fossils at the Shell Factory this year as outreach to the public. Recently, they acquired 20 additional cases for fossils. She is always eager for new specimens to display, so if you have something special you would be willing to loan or donate, you can contact her at 239-246-5993 or at fcolltreasures@yahoo.com

For more info on the Shell Factory & Nature Park, check out www.shellfactory.com

Kids' Fossil Blast

This month we will explore the mechanisms of continental drift and the effects of our moving earth on the history of life. We'll even experiment with layers and see what happens.

Bring your curiosity on Saturday, August 16th at 2 pm in the Inspiration Room on the 2nd floor of the Science Center.

Meeting, August 16th, 3 pm, Inspiration Room, 2nd Floor

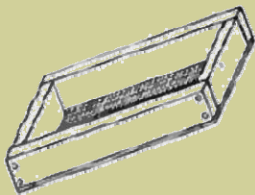
Butterflies are Free

See the Butterfly exhibit at the FL Museum of Natural History for FREE. Students K-12 who receive an "A" or "E" grade in science may present their most recent report card at the front desk to receive a free admission to the Butterfly Rainforest or other pay exhibit (with the purchase of a regular adult paid admission.)

PEACE RIVER

Yes, it's the monsoon season here in Florida. Water levels for the past couple weeks have been in the 10 to 12 ft. range on the river. It looks like folks were still pulling fossils out of the creeks at the beginning of July... but not now. Just keep checking the river height before you plan your next trip via the link on our website:

floridafossilhunters.com



National Fossil Day

The South Florida Museum in Bradenton will be hosting a big extravaganza to celebrate fossils on Saturday, Oct. 4th from 10 am to 8 pm. It will feature:

A special screening of the movie "Sea Monsters-A Prehistoric Adventure" at 4:15 pm in the Planetarium Outdoor Fossil Dig for kids sponsored by Mosaic

Speakers

Fossil exhibits from the FL Museum of Natural History, FL Paleontological Society, FL Fossil Hunters, SW FL Fossil Society, etc.

Junior Paleontologist Badge Program presented by the Desoto National Park Rangers plus all the wonderful exhibits of the Museum.

All this and museum admission will be half off for the entire day! \$9 adults, \$8 seniors, \$7 children, kids under 4 get in free -- Russell Brown

Get rewarded!

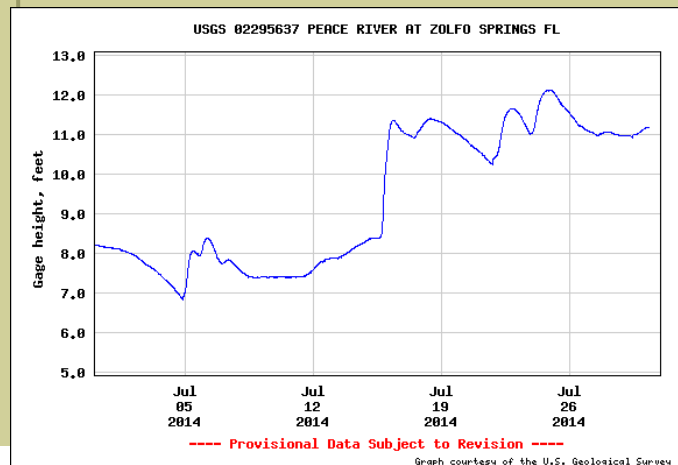
Anyone who brings in 5 or more fossils to display at the meeting, will earn 100 more Fossil Bucks. We can drool over the treasures each of us has collected and learn about different fossils and where to find them from each other.

Vulcan Mine Report

June 14th was another great day to be at Vulcan Materials Mine. Although the economy has slowed mining at Vulcan and a lot of areas are overgrown, there were plenty of happy fossil hunters. Sand dollars and echinoids were readily found, a dugong rib or two showed up and I saw one barracuda tooth.

An afternoon storm drove us out a little early and now that the summer heat is going full blast, we won't have another dig there until Fall.

Vulcan Materials graciously allows children in (one of the only mines that does) and I thank them for their support of fossil hunting knowledge & fun.



Florida Fossil Hunters News

Sign up now!

Paleo Lab Field Trip

If you ever wondered how fossils and bones get cleaned don't miss the Paleo Prep Lab trip on Sunday, Aug. 10th from 10:30 am to around 2 pm. Chris DeLory who is head of education at Brevard Zoo and the owner of Educational Biofacts, has graciously invited us on a tour of his Lab in Rockledge featuring displays and some fossil prepping.

The address of the Lab is: 4015 Pine Industrial Rd., Units I and J, Rockledge, FL 32956. Chris' cell phone is 321-693-5519 if anyone gets lost.

If you would like to visit the Zoo afterwards, Chris has offered to get discount admission tickets for us. To sign up for the trip, please email Bonnie at bonnierussell62@gmail.com or call her at 352-429-1058. Be sure to let us know how many adults and the number of kids.. especially if you want Zoo tickets.

Fossil Fair October 18 & 19

Our Annual Fossil Fair is just around the corner. Now is a good time to hunt down those fossils for the Kids' Pit. Your donations give the kids so many smiles and it encourages them to learn more about what they've found at the Fair.

We also need donations for the Silent Auction.... better fossils that are just gathering dust in a corner, minerals, casts, display shelves or cases, pre-historic kids' stuff, etc. You'd be amazed at how excited adults and children get and what fun everyone has bidding against each other for some treasure.

We'll have the volunteer sign-up sheets at the August and September

meetings so check your calendar to see what times are best for you to participate in the Fair. Your time and donations make the Fair a fantastic event for everyone to remember.

Meanwhile, pass out the Fair flyers to any other clubs or groups you belong to and post them in libraries or other public locations where you can. You can copy the flyers from the one in this issue or download it from our website.



2014 Fossil T-Shirt

Russell has created a fantastic design for our club's t-shirts. There may be some minor tweaking before they get printed but this is the current design.

We pretty much broke even on the shirts last year, so we're bumping up the price this year. They'll be \$12 for regular shirts for adult and youth sizes. Shirts with pockets will be \$14.00.

Please put your order in as soon as possible so you can be sure to get one. The few extra we order usually go fast.

2014 Fossil Fair - T-Shirt Order Form

IF YOU WANT A SHIRT, WE MUST RECEIVE YOUR ORDER FORM BY SEPTEMBER 15TH.

Name: _____ Email or phone#: _____

Mark the number of shirts you want per size.

Kid Small _____ **Kid Med** _____ **Adult Small** _____ **Med** _____ **Lg** _____ **XL** _____ **2X** _____

Adult w/Pocket- **Small** _____ **Med** _____ **Lg** _____ **XL** _____ **2X** _____

Total number of shirts ordered _____ @ Adult shirts & youth shirts: \$12 ea. Shirts with pockets: \$14.

Florida Fossil Hunters News

Exhibits.

FL Museum of Natural History Coming Exhibits

Megalodon: Largest Shark that Ever Lived

Oct. 4, 2014 - Jan. 4, 2015

The largest shark ever known is returning to Gainesville! Be consumed with awe at Megalodon, the gigantic prehistoric shark that once cruised the world's oceans. Walk through the full-scale jaw of a 60-foot-long shark sculpture to learn the story of this fantastic ancient creature, including its size, structure, diet, lifespan, relatives, neighbors, evolution, extinction and new science that continues to reveal Megalodon's tale. The object-rich exhibit features fossil specimens from several collections and life-size, scale models of other fossil and modern sharks. Tooth-shaped display units include actual Megalodon fossils, and the exhibit is rich in hands-on, family-friendly activities.



A T. rex. Named Sue **Jan. 24 - Sept. 13, 2015**

Tyrannosaurus rex has long commanded respect and sparked curiosity in the mind of the public, and Sue is the most famous T. rex of all. At 42 feet long and 12 feet tall at the hips, her skeleton inspires as much awe today as she did 67 million years ago. In the temporary exhibit "A T. rex Named Sue," explore how this remarkable creature interacted with its world and what we can learn from studying its bones. Revel in the sheer magnitude of a fully articulated, life-size skeleton cast while learning about Sue's movement, vision and sense of smell. Enjoy family-friendly interactives, climb into the dig pit to uncover fossils and learn about dinosaurs through touchable bone replicas and other hands-on activities. Follow Sue's sensational journey from the Cretaceous period and sedimentary rocks of South Dakota to the U.S. courts and finally the world. Come to the Florida Museum to experience the largest, most complete and best preserved Tyrannosaurus rex ever discovered!



MOAS Natural History Day

Saturday, September 20

9:00am - 5:00pm

Russell & Bonnie will be displaying fossils at the Museum of Arts & Sciences in Daytona Beach for this event, instead of attending the club meeting in Orlando. Please feel free to come and help us talk to the visitors and hand out our Fossil Fair flyers.

Bring your family for a great day of exploring natural history specimens from the Museum's collection. Enjoy displays from the Tomoka Gem and Mineral Society, Orlando Fossil Hunters, Marine Discovery Center, Lyonia Preserve, Halifax Audubon Society and many more. Free for members or with paid admission

Schedule of Events:

11:00am and 2:00 pm

Curating the Great Cats

Craig Saffoe, Curator of Great Cats and Animal Care Sciences National Zoological Park, Smithsonian Institution Craig has worked at the National Zoo for 20 years. Before becoming the Curator of Great Cats, Kids' Farm and Andean Bears, Craig served as the biologist for the Cheetah Conservation Station. One of his accomplishments was managing the cheetah breeding program, which resulted in the first two litters (totaling nine offspring) of cheetah cubs ever to born at the National Zoo. Join Craig for a unique view of life as a curator of Great Cats.

12:15pm

Kids Fossil Show

"Zach" Zacharias, Senior Curator of Education and Curator of History

Join Zach and discover the amazing world of Ice Age mammals like giant ground sloths, mastodons, mammoths, and other amazing animals through the Museum's collection of fossils.

The Museum is located at 352 S. Nova Rd., Daytona Beach, FL 32114. Ph: 386-255-0285

For more info go to: www.moas.org

Vulcan Mine Report

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Florida Fossil Hunters News

Florida Fossil Hunters



2014 FOSSIL FAIR

Twentythird Annual
Fossils, Rocks, Gems & Minerals

Saturday, October 18, 2014

9:00am - 5:00pm

Sunday, October 19, 2014

10:00am - 4:00pm

Central Florida Fairgrounds

4603 West Colonial Drive, Orlando, Florida 32808

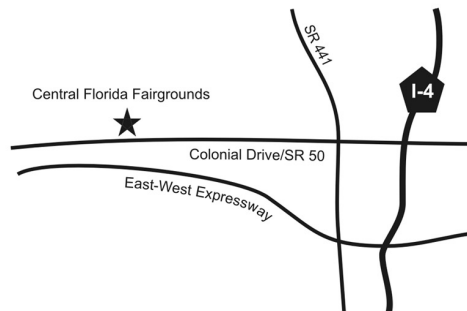
\$4.00 Adults | \$1.00 Children

**Learn to dig in Florida and
see what can be discovered!**

*From Tampa - I-4 to Orlando, take
Colonial Drive (Hwy 50) exit Westbound.*

*From Daytona - I-4 to Orlando, take
Colonial Drive (Hwy 50) exit Westbound.*

*The fairgrounds will be on the right side,
just past Mercy Drive.*



**Educational
Displays**

Vendors

**Silent
Auctions**

**Kids \$1
Dig Pit**

Raffles

**Airconditioned!
INDOORS!**

For more information on the 2014 Fossil Fair contact us by email at info@floridafossilhunters.com, call 407-699-9274, or check the website at

www.floridafossilhunters.com

Snowball Earth

The Snowball Earth hypothesis posits that the Earth's surface became entirely or nearly entirely frozen at least once, some time earlier than 650 Ma (million years ago). Proponents of the hypothesis argue that it best explains sedimentary deposits generally regarded as of glacial origin at tropical paleolatitudes, and other otherwise enigmatic features in the geological record.

Opponents of the hypothesis contest the implications of the geological evidence for global glaciation, the geophysical feasibility of an ice- or slush-covered ocean, and the difficulty of escaping an all-frozen condition. There are a number of unanswered questions, including whether the Earth was a full snowball, or a "slushball" with a thin equatorial band of open (or seasonally open) water.

The geological time frames under consideration come before the sudden appearance of multi-cellular life forms on Earth known as the Cambrian explosion, and the most recent snowball episode may have triggered the evolution of multi-cellular life on Earth. Another, much earlier and longer, snowball episode, the Huronian glaciation, which occurred 2400 to 2100 Ma may have been triggered by the first appearance of oxygen in the atmosphere, the "Great Oxygenation Event."

The most amazing part of this is that life survived these events. Cyanobacteria, which constructed the structures called stromatolites, show up in the fossil record over 3 billion years ago.

Now fossils show that not only one-celled creatures but sponges survived these freezes as well. We think we have found the oldest fossil animals in Earth history," says a geologist at Princeton University, referring to a jumble of fossilised blobs, discovered on

Australia's Flinders Ranges, which he believes are the remains of ancient sponges.

Maloof's team dated the fossils to 650 to 640 million years ago – making them around 90 million years older than the next oldest animal fossils.

[Sponges are the most primitive living animals](#). Genetic studies have suggested they evolved long before the Cambrian explosion of 542 million years ago, which saw the sudden origin of a huge diversity of animal life. But until now, there was no fossil evidence to prove this.

To identify the sponges, Maloof's team ground down a fist-sized lump of rock a fraction of a millimetre at a time, taking hundreds of images in the process to create a three-dimensional map of the fossil. This revealed repeated asymmetrical shapes, criss-crossed with millimetre wide canals, which Maloof says are sponge fragments mixed up with a bacterial stromatolite mat ([Nature Geoscience, DOI: 10.1038/nge0934](#)).

[Martin Brasier](#) of the University of Oxford says the find supports his theory that life kick-started "Snowball Earth". A few million years after the sponges were around a glaciation extended to the equator, wiping out large swathes of life. Brasier argues that in the absence of more complex creatures that can recycle debris, like worms, the carbon in early life forms got buried in a constantly growing carbon sink, sucking carbon dioxide out of the air and causing global cooling. Sponges would have contributed to such a cooling sink, he says.

Jane Goodall at the Sun Dome

Jane Goodall, Ph.D., DBE, will be presenting a lecture at the Sundome in Tampa on Tuesday, Aug. 9th at 7pm. She is the scientist behind the landmark study of chimpanzee behavior and a leader of environmental conservation.

In her lecture, Goodall, a United Nations Messenger of Peace, will discuss her experiences in nature and her enthusiasm for botany, sharing simple goals everyone can take to protect nature. Following her lecture, there will be a question and answer segment moderated by Eric Eisenberg, Dean of the College of Arts and Sciences.

Goodall's newest publication, "Seeds of Hope: Wisdom and Wonder from the World of Plants," along with many of her other publications, will be available for purchase following the lecture discussion. A book signing will take place at the conclusion of the event.

In 1977, Goodall founded the Jane Goodall Institute, which is a global leader in the effort to protect chimpanzees and their habitats.

Goodall's honors include the French Legion of Honor, the Medal of Tanzania and Japan's prestigious Kyoto Prize. In 2003, she was named a Dame of the British Empire.

Goodall, who celebrated her 80th birthday in 2014, travels an average of 300 days per year, speaking about the threats facing chimpanzees, other environmental crises, and her reasons for hope that humankind will solve the problems it has imposed on the earth.

The College of Arts and Sciences is sponsoring the event in collaboration with the Frontier Forum lecture series and the University Lecture Series.

For info on getting tickets, go to:

<http://www.sundomearena.com/events/detail/usf-college-of-arts-and-sciences-presents-dr-jane-goodall>

or call Ticketmaster at 800-745-3000.

Florida Fossil Hunters News

Florida Fossil Hunters

Membership Application

is a fun and educational group whose goal is to further our understanding of the prehistory of Florida. We encourage family participation and welcome explorers of all ages.

Membership is \$17 per year. Other household members may be included at no charge.

Meetings are usually held on the third Saturday of the month but may vary with club activities. Check the website for the date and location of the next meeting or call one of the officers.

Officers:

President	Russell Brown	(352) 429-1058
Vice President	Dave Dunaway	(407) 786-8844
Secretary	Bonnie Cronin	(352) 429-1058
Treasurer	Sara Morey	(619) 302-4863

Chairs:

Education	Bonnie Cronin	(352) 429-1058
Field Trips	OPEN	
Fossil Fair	Valerie First	(407) 699-9274
Fossil Auctions	Dave Dunaway	(407) 786-8844
Fossil Bucks	Dave Dunaway	(407) 786-8844
Fossil Lotto	Ed Metrin	(407) 321-7462
Membership	Bonnie Cronin	(352) 429-1058
Newsletter	Bonnie Cronin	(352) 429-1058
	Elise Cronin-Hurley	(407) 929-6297
Photography	John Heinsen	(407) 291-7672
Webmaster	Elise Cronin-Hurley	(407) 929-6297
	elise@lisedreams.com	

Board of Directors:

Melissa Cole	(407) 834-5615
Ed Metrin	(407) 321-7462
Dave Cass	(407) 409-9095
Shelley Zimmerman	(407) 891-1260
Marge Fantozi	
Marcia Wright	

Names: _____

Associate Members: _____

Address: _____

City: _____

State: _____ Zip: _____ Phone: _____

e-mail: _____

____ New ____ Renewal

Please list any interests, experience, talents or just plain enthusiasm, which you would like to offer to the club:

Membership is \$17 per year. Our membership year runs from January to December. All renewals are done in December and January.

Please make your checks payable to:

Florida Fossil Hunters
Post Office Box 540404
Orlando, Florida 32854-0404

Associate members are people in the same household, included at no extra charge, 2 adult votes per household.

Newsletter Policy

Articles must be submitted by the first of the month to be included in that month's newsletter. These can be mailed to the above Post Office Box or e-mailed to: bonnierussell62@gmail.com . Articles can be sent as text in the e-mail or in Microsoft Word files (.doc or .docx).

Please note in subject of email 'FFH'.

Florida Prehistorical Museum, Inc.
dba/ Florida Fossil Hunters

Florida Fossil Hunters News

Florida Fossil Hunters Mark Your Calendar

See inside for more information on events.

Sunday, August 10th
Paleo Lab

Saturday, August 16th
2 pm Kids' Fossil Blast
3 pm Meeting & Display Day

Saturday, September 6th
OSC, Science Night Live
8:00-11:00 pm

Tuesday, September 9th
Jane Goodall, Sundome

Saturday, September 20th
FFH Meeting & Speaker

Saturday, September 20th
MOAS- Natural History Day
9:00am - 5:00pm

Saturday, October 4th
National Fossil Day,
South Florida Museum
10:00am - 8:00pm

Saturday, October 11th
Vulcan Mine

October 18th & 19th
FFH Fossil Fair

Be Green

Email Bonnie at bonnierussell62@gmail.com
to receive the newsletter via email.



Join Our Facebook group, Search:

[Florida Fossil Hunters](#)

facebook

Visit us online at www.floridafossilhunters.com

Articles and comments should be sent to: bonnierussell62@gmail.com

Florida Fossil Hunters

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