



FLORIDA PALEONTOLOGICAL SOCIETY NEWSLETTER

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FALL 2017

Florida Paleontological Society, Inc. Spring Meeting – April 2017 Palatka, Florida

by Curtis R. Klug

Following a meeting of the Board of Directors, the Spring 2017 meeting of the FPS convened on April 29th at the very popular Corky Bells Seafood & Steaks restaurant overlooking the winding St. Johns River in

calamari, crab, and gator tail, there was a seafood item to please almost every palate. Admittedly, gator tail is arguably not a seafood and Corky's, in fact, did list it along with catfish and frog legs in the "Swamp Dinners" category. And, of course, there were the steaks, chicken, and burgers for the landlubbers. Without debate, portions were very generous. I was a little disappointed that my cheese grits never showed up but the point was rendered moot as several belt loosening were required to accommodate the large portion of center cut cod loin that I received.



Figure 1. *FPS members assembled prior to heading in to the East Coast Aggregates Pit, St. Johns County, Florida.*

East Palatka, Florida. Dinner was preceded by a spirited game of "find a parking place" and a brief business meeting.

This meeting was a bit different in that the usual meetings typically follow the field trip. As Sunday morning was the only time available for the field trip, it was decided to have the dinner and business meeting prior to the trip. Corky Bells was not particularly conducive to the usual business meeting and it was necessary to forego the silent auction but the restaurant more than made up for it in the extensive selection of expertly prepared seafood. With a selection of at least six different kinds of fish, shrimp, oysters, clams,

On the morning of April 30th, attendees gathered in the parking lot of the Hampton Inn in Palatka. From there we caravanned to the East Coast Aggregates Pit in St. Johns County (Figure 1). There, we were warmly greeted by our very gracious hosts who presented an overview of the pit as well as safety advice.

The East Coast Aggregates Pit provided a very rare opportunity to collect fossil specimens from the geographically restricted Nashua Formation. Abundant, well-preserved invertebrates dotted the spoil piles but some vertebrate material was found as well (Figure 2).

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The fauna of the Nashua Formation is, overall, very much like that of the lower Pleistocene Caloosahatchee Formation and, indeed, the Nashua has been included in the Caloosahatchee Formation by some authors. But there are some interesting differences. The Nashua includes faunal elements typical of more northern faunas such as those of the Waccamaw Formation of the Carolinas. Figure 3 shows an assortment of specimens collected from the East Coast Aggregates Pit.

Familiar species that are commonly encountered in Caloosahatchee Formation deposits and are also found in the Nashua Formation at the East Coast Aggregates Pit include: *Eucrassatella speciosa* (Adams, 1854), *Vokesinotus lepidotus* (Dall, 1890), *Pterorytis fluviana* Dall, 1903, and *Cancellaria conradiana* Dall, 1890. These are shown in Figure 3e; f, g; h-j; and o, p, respectively.

A striking feature of the fauna was the absence or near absence of the otherwise nearly ubiquitous *Chione cancellata* (Linnaeus, 1767). Although it has been reported from the Nashua Formation, I found none. The closest I came was *Chionopsis cribraria* (Figure 3s, t). However, as if to make up for the missing *Chione*, *Mulinia lateralis* (Say, 1822) was present in great abundance. This species, shown in Figure 3a-d, is more typical of northern faunas such as those of the Waccamaw Formation of the Carolinas but it does occur in the Caloosahatchee Formation as well.

Another species from the East Coast Aggregates Pit that occurs in the Waccamaw is *Ilyanassa sexdentata* (Conrad, 1843). Apparently this species, which is shown in Figure 3q, r, has not been reported from the Caloosahatchee Formation.

Other nassariids commonly found at the East Coast Aggregates Pit include *Ilyanassa scalaspira* (Conrad, 1868) and *Ilyanassa floridana* (Smith, 1936). These are shown in Figure 3k, l and Figure 3m, n, respectively. Both of these species also occur in the Caloosahatchee Formation but, apparently, only *Ilyanassa scalaspira* has been reported from the Waccamaw Formation.

The second pit visited on the trip was the Big Horse Aggregates Pit. Despite the fact that it is located immediately adjacent to the East Coast Aggregates Pit, it lies in Putnam County rather than St. Johns County.



Figure 2a, b. FPS members collecting the spoil piles of Plio-Pleistocene Nashua Formation at East Coast Aggregates Pit in search of fossil treasures.

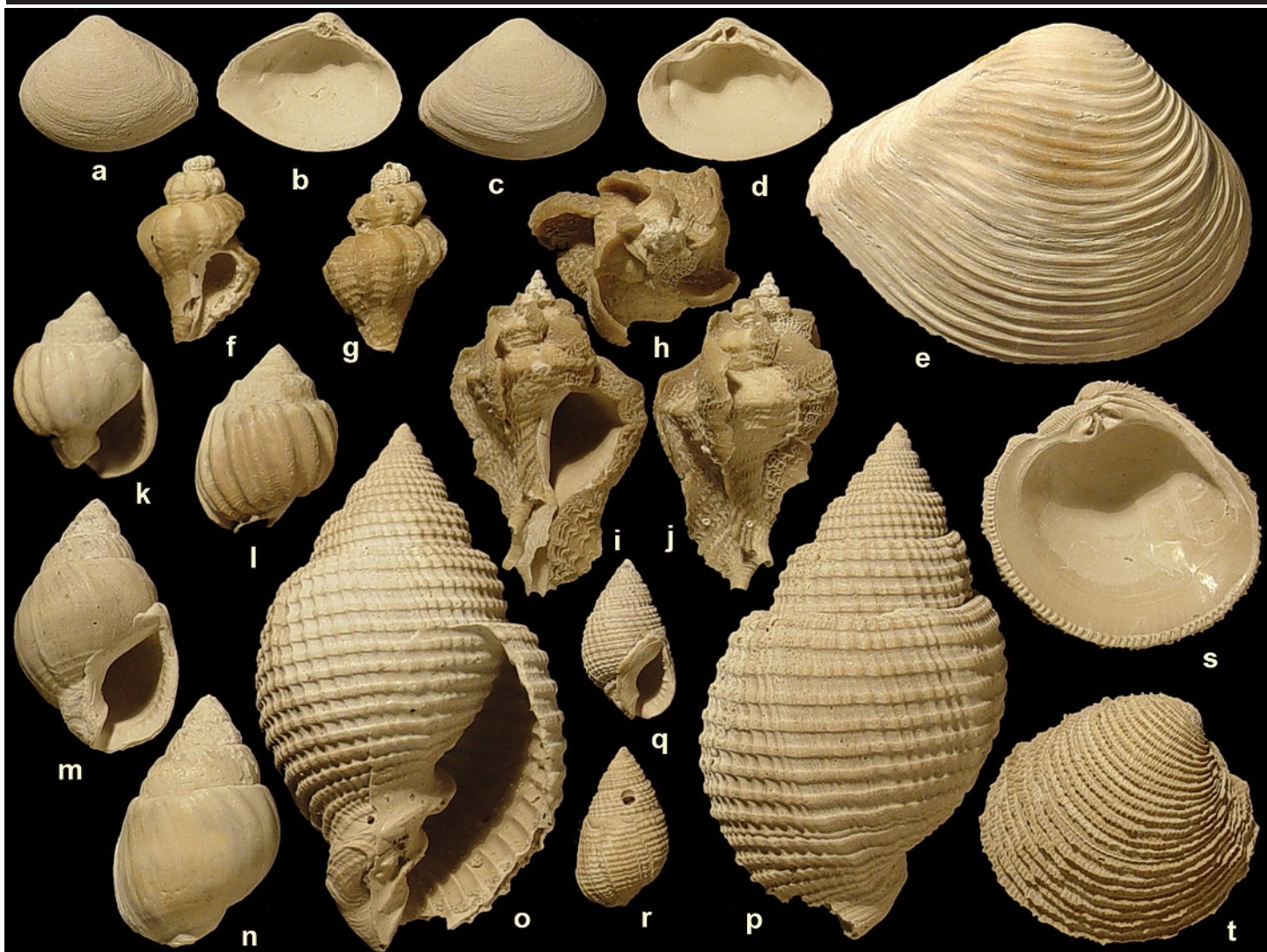


Figure 3. Select faunal elements from the Nashua Formation at the East Coast Aggregates Pit (greatest dimension provided): (a, b) *Mulinia lateralis* (Say, 1822), 21.2 mm. (c, d) *Mulinia lateralis* (Say, 1822), 23.1 mm. (e) *Eucrassatella speciosa* (Adams, 1854) 56.9 mm. (f, g) *Vokesinotus lepidotus* (Dall, 1890), 23.0 mm. (h-j) *Pterorytis fluviana* Dall, 1903, 40.0 mm. (k, l) *Ilyanassa scalaspira* (Conrad, 1868) 21.8 mm. (m, n) *Ilyanassa floridana* (Smith, 1936) 31.0 mm. (o, p) *Cancellaria conradiana* Dall, 1890, 63.5 mm. (q, r) *Ilyanassa sexdentata* (Conrad, 1843) 10.9 mm. (s, t) *Chionopsis cribraria* (Conrad, 1843), 34.2 mm.

The Big Horse Aggregates Pit provided a fine opportunity to view the vertical section being mined (Figure 4). Pickin's, however, were a bit on the slim side presumably because the material was quite fresh and, apparently, had not been subjected to the cleansing effects of sufficient rainfall. In fact, I only brought back one specimen from the pit. That was a relatively large *Encope* specimen completely encased in matrix. The lower side of the specimen cleaned up easily and moderately well with water and a toothbrush but the sediment on the upper side was firmly cemented to the specimen with calcite.

The specimen was a bit disappointing in that it was rather eroded and the peristomal plates on the lower side,

as well as some abulacral plates on the upper side, were missing. The silver lining was that the missing peristomal plates nicely exposed the in situ mouth parts (see Figure 5). Another interesting aspect of the specimen was that it completely lacked the large posterior interambulacral lunule typical of *Encope tamiamiensis* (Mansfield, 1932). The absence of that feature and the relatively shallow ambulacral notches suggest that this specimen is better assigned to *Encope aberrans* Martens, 1867.

All in all, it was another very successful FPS field trip to a rarely accessible locality and, at the very minimum, a tip of the hat is due to the organizers of the trip.



Figure 4. View of the recently de-watered Big Horse Aggregates Pit.



*Figure 5. Sand dollar *Encope aberrans* Martens, 1867, from the Nashua Formation at the Big Horse Aggregates Pit, 116.0 mm.*

FLORIDA PALEONTOLOGICAL SOCIETY, INC.

As stated in the Articles of Incorporation, "The purposes of this Corporation shall be to advance the science of Paleontology, especially in Florida, to disseminate knowledge of this subject and to facilitate cooperations of all persons concerned with the history, stratigraphy, evolution, ecology, anatomy, and taxonomy of Florida's past fauna and flora. The Corporation shall also be concerned with the collection and preservation of Florida fossils." (Article III, Section 1).

CODE OF ETHICS**ARTICLE X**

Section 1. Members of the Florida Paleontological Society, Inc., are expected to respect all private and public properties.

Section 2. No member shall collect without appropriate permission on private or public properties.

Section 3. Members should make a sincere effort to keep themselves informed of laws, regulations, and rules on collecting on private or public properties.

Section 4. Members shall not use firearms, blasting equipment or dredging apparatuses without appropriate licenses and permits.

Section 5. Members shall dispose of litter properly.

Section 6. Members shall report to proper state offices any seemingly important paleontological and archaeological sites.

Section 7. Members shall respect and cooperate with field trip leaders or designated authorities in all collecting areas.

Section 8. Members shall appreciate and protect our heritage of natural resources.

Section 9. Members shall conduct themselves in a manner that best represents the Florida Paleontological Society, Inc.

Section 10. Members shall not discard any foreign materials (such as emptying buckets/bags from a previous collecting trip) that would cause cross contamination at any site, potentially endangering future research data.

Florida Paleontological Society, Inc. Spring Board Meeting Palatka, Florida 29 April 2017

Due to restrictions on the quarry access to only Sunday (30 April) for the fieldtrip, the BOD Meeting was held on Saturday afternoon (29 April) with the dinner that evening. This is different from the normal course of events.

The BOD meeting met at the Hampton Inn Hotel in Palatka, FL. Present at the meeting were:

Kevin Hutchenson	Bernie Peterson
Michael Reagin	Carol Peterson
Paul Roth	Alex Kittle
Laura Pullum	Cindy Lockner
Russell Brown	Roger Portell
Bonnie Cronin	

The President, Kevin Hutchenson, chaired the meeting. In the absence of an official Secretary, he also kept notes from which these minutes are derived. The meeting was called to order at 1500 EDT.

Old Business**1. Secretary (vacancy):**

At the November meeting, Roger Portell stated that he had some staff members about to start. He thought one of them might be imposed upon to accept the vacant post. Roger suggested we wait until June and he would try to enlist a staff member from the new hires beginning this summer.

The board agreed to wait.

ANNUAL DUES for the FPS are \$10.00 for Associate Membership (persons under age 18) and \$20.00 for Full Membership (persons over age 18) and Institutional Subscriptions. Couples may join for \$25.00, and Family Memberships (3 or more persons) are available for \$30.00. Persons interested in FPS membership need only send their names, addresses, and appropriate dues to the Secretary, Florida Paleontological Society, Inc., at the address on page 2. Please make checks payable to the FPS. Members receive (free) the FPS e-Newsletter and any Florida Fossil Invertebrates published during their subscription (membership). FPS Special Papers are offered (at a reduced price) to members in good standing. Additionally, there are FPS sponsored fossil collecting trips, auctions, and presentations in conjunction with our society's bianual meetings.

NEWSLETTER POLICY: All worthy news items, art work, and photographs related to paleontology and various clubs in Florida are welcome. The editors reserve the right not to publish submissions and to edit those which are published. Please address submissions to the Editors, Florida Paleontological Society, Inc. Florida Museum of Natural History, P.O. Box 117800, University of Florida, Gainesville, FL 32611-7800

2. Publications:

Part of the FPS revenue derives from publication sales. Roger Portell stated the sale of the shark books (Boyd booklet, Fossil Sharks and Rays of Gainesville Creek, Alachua County, Florida) were going well.

The next two installments of the Florida Fossil Invertebrates (FFI) should be out this year. This would be #16 (Jackson Bluff Mollusks) and #17 (Florida Fossil Pearls). He passed near-galley proofs during the meeting. Recall the publication costs are kindly provided by the James and Lori Toomey.

Treasurer's Report:

Roger Portell presented the Treasurer's report. Phil Whisler was to arrive later Saturday evening. Page 1 of the report contains the Income (\$2,933.48) and Expenses (\$2,713.14) statement with all Assets on page 2. The organization is doing well, with \$33,972.98 in assets (not including inventory).

New Business:

1. Membership (and fieldtrip access):

FPS currently has approximately 60% of the listed memberships as paid.

There was discussion concerning the member number limits on field trips. This has been an ongoing discussion for some time. The issue is that most quarry operators limit the number of persons in a quarry, but most members who attend FPS events wish to collect fossils. Trips generally reach their limit in hours or within a day.

As an example, for this trip, there was a standby list of persons wishing to attend due to the imposed 40 person limit.

To better overcome this problem, Paul Roth moved to allow the first five members on the stand-by list to have priority on the next trip. Cindy Lockner seconded. The motion carried unanimously.

2. Outreach:

There were a number of items for discussion for public outreach.

Women in Paleontology: Cindy Lockner, Russell Brown, and Bonnie Cronin provided discussion and expectations concerning the upcoming Women in Paleontology at the Orlando Science Center on 6 May 2017.

Two locking FPS cases will be loaned for this effort.

FPS has co-supported this initiative with the Florida Fossil Hunter club in the past: Bernie and Carol Peter-

son filled the role last year and volunteered again this year.

Paul Roth volunteered to send the WIP flyer out to the FPS membership following this field trip.

National Fossil Day: Paul stated NFD is to be held on 4 November 2017 at the FLMNH, Powell Hall, Gainesville. With limited space, there would be two tables per group and a dry and wet dig pit for children.

More should be forthcoming as the summer progresses.

Powell Hall Display Case: While past due to be rotated with another display, it won't be rotated this year; there is just too much FLMNH activity with the 100th Anniversary Celebration and the opening of the new Children's Discovery Center. However, expect the change to occur in January 2018. Cindy Lockner is to be featured.

3. Website:

Website sales have been transferred to the Gumroad Service (<https://gumroad.com/fps>). This means the account can support direct credit card sales. Paul has used this service for his own needs and has been happy with the service.

While a couple of test sales have been undertaken, Paul suggests the full functionality needs to be better tested. Roger suggested Paul buy/ship/etc. a sale to test.

In the future, via this same service, membership renewals may be added; possibly through a hidden page.

4. Fall Meeting:

A location for the fall meeting was discussed. Several ideas were floated: South Florida (DeSoto/Charlotte counties), Haile (Alachua County), and Georgia, south of Brunswick. No decision was reached.

Roger has the action to look at a few sites during the summer and suggest a collecting site or two.

However, a date was selected. The primary date is 7-8 October with a backup date of 2-3 December.

5. Open Discussion:

Roger is looking for a few volunteers to help remove fossil material from a former FPS member Shirley Bryne's garage. Some material may go to the museum, some to support National Fossil Day, or other activities. He is looking for 4-5 people for the weekend of 26-27 May.

With no additional business, the Board moved to adjourn at 1620 EDT.

Respectfully submitted,
Kevin D. Hutchenson, Ph.D.
President, FPS

Florida Paleontological Society provides support at the 2017 “Women in Paleontology” Event at the Orlando Science Center by Cindy Lockner

Several Board Members from the Florida Paleontological Society (FPS), including Carol Peterson, Bernie Peterson, Bonnie Cronin, Russell Brown,

The Florida Fossil Hunters started this local community initiative in 2014. The event is specifically targeted toward K-12 girls for the purpose of increasing their interest in earth sciences. It is well documented that there is an underrepresentation of women and minorities in science, and this is particularly true in the geological sciences. In an attempt to address this issue, in 2016, the Florida Fossil Hunters partnered with the FOSSIL Project, Florida Museum of Natu-



This year’s presenters, L to R: Eleanor Gardner, Dr. Laura Cotton, Rachel Narducci, Bonnie Cronin, Cindy Lockner, Michelle Barboza-Ramirez, Ta-Shana Taylor, Jeanette Pirlo, not pictured Patrisha Meyers, Dr. Celina Suarez

and Cindy Lockner, all provided support at this year’s “Women in Paleontology” Event at the Orlando Science Center on May 6th, 2017. This is the third consecutive year that FPS has exhibited multiple fossil displays, and provided support material to young girls attending this event.

ral History/University of Florida. Eleanor Gardner, FOSSIL Project Coordinator, was extremely valuable in providing resources and guidance throughout the planning and execution of the event. Together, they were able to convince numerous professional women in the field of science, to speak at the event, and even

utilized technology via Skype for one of the presentations. In 2017, they were also able to secure a Paleontological Society Education & Outreach Grant which was useful in helping to broaden the reach of the program and to enable undergraduate and graduate paleontology students in Florida to become more involved in educational outreach to this audience.

Together, they were able to promote the event and reach out to numerous groups, including the Girl Scouts, the Orange County Public Schools' Partners in Education, the City of Kissimmee Youth After-School program, and many others. In addition, press releases were distributed to television stations, there were multiple social media posts, and event brochures were printed in both English and Spanish and distributed. As a result, approximate attendance provided by the Orlando Science Center indicates that the number of attendees has grown from 950 guests in 2014 to over 1800 guests in 2017.

Public talks presented this year included "A Geologist's Contribution to Marine Mammal Conservation" by Ta-Shana Taylor, Lecturer at the University of Miami, Department of Geological Sciences, "Archaeologists Don't Dig Dinosaurs: Anthropology vs. Paleontology" by Patrisha Meyers, Seminole State College of Florida, "Accidental Scientist" by Michelle Barboza-Ramirez, vertebrate paleontology graduate student, Florida Museum of Natural History, "Digging into Paleontology: Fieldwork at the Montbrook Fossil Site" by Rachel E. Narducci, University of Florida, "Evidence Locked Within: Using the

Geochemistry Composition of Fossils to Understand Prehistoric Worlds" presentation (via Skype) by Dr. Celina A. Suarez, NSF Earth Sciences Postdoctoral Fellow at Boise State University, and professor at the University of Arkansas, and "Tiny Fossils, Big Questions: What Large Foraminifera Can Tell Us About Climate Events" by Dr. Laura Cotton, curator micropalaeontological collections at the Florida Museum of Natural History.

Attendees at this year's event were invited to participate in a pre and post survey with questions about paleontology which encouraged them to interact with the presenters and exhibitors. There was a substantial improvement in post survey answers, demonstrating that the audience gained a better understanding of the definition of paleontology as a field of study and what tools are used by paleontologists. In addition, attendees were asked to draw an example of a paleontologist upon entry into the event, and again upon exiting. Pre-survey results showed that 55% of those taking the survey, drew male characters and only 10% drew a person with darker skin tone. Post-survey results: 75% drew female characters and 25% drew a person with darker skin tone. These results show that the attendees experienced and recognized the diversity of the program. A success!

A special thanks to everyone who supported this event. You may just have inspired a few of the attendees to be a future female paleontologist, and who knows what exciting discoveries they will find, and how they might change the future of science.



The last SMR Aggregates quarry now Flooded! Our beloved SMR Aggregates Phase 10 Quarry in Sarasota, Florida flooded recently. Numerous FPS members enjoyed many outings collecting the diverse, abundant, and beautiful Pinecrest shells found there. Thank you to SMR Management for allowing access all these years.

Current happenings in the Paleobotanical Division at Florida Museum by Prof. Steven R. Manchester

Sarah Allen finished her PhD work on the Eocene Bridger flora of Wyoming in Spring, 2017 and is currently working as a Postdoctoral Paleontologist at Florissant Fossil Beds National Monument in Colorado. She recently spoke on some of her current research at the Geological Society of America Annual Meeting in Seattle.

PhD candidate Rebecca Koll is currently enjoying a one-year predoctoral fellowship at the Smithsonian Natural History Museum, where she is focusing on the floristic diversity and arthropod feeding damage to leaves from the Permian of Texas. She published one of her articles on the extinct seed plant group known as gigantopterids this year.

PhD student Han Meng, who spent the past year in our lab as part of an exchange program with Sun Yat-sen University in Guangzhou, China, completed work on Paleocene, Eocene, and Oligocene fruits of the moonseed family from China and North America. She was recognized as student representative for China at the International Organization of Palaeobotany and she delivered an invited presentation on her research at the International Botanical Congress in Shenzhen, China in August.

Second-year graduate student, Bob Spielbauer is continuing his work on fossil Sycamores and their relatives. Bob, Steve, and Han Meng collected at some classic Miocene sites in Idaho and photographed relevant specimens in collections at the College of Idaho, and University of Idaho during this past summer. Bob is currently attempting to determine the modern Sycamore species that are most closely related to the Miocene representative collected in Idaho using characters of the leaves and fruits. Today, the genus (*Platanus*) has several species in Mexico, a few in the U.S., one in eastern Europe, and another in eastern Asia, but the relationships between these species and the Neogene fossils have previously not been explored in detail.

MacKenzie Smith joined us as a new graduate student in the PhD program in the Fall 2017. During the summer he initiated a project on fossil walnuts from the Miocene of Washington State and has been using the results from microCT scanning

of modern and fossil nuts to better understand the biogeographic history of the butternut group. The resulting manuscript will be submitted for publication shortly. MacKenzie is employed in the Fossil project, an NSF-supported program seeking to improve ties among the amateur and academic paleontological communities through various kinds of outreach.

Steve Manchester collected only "casually" this summer in Wyoming, as the prohibition of fossil-collecting on Federal lands went into effect. Fieldwork in China included visits to fossil leaf localities in the Miocene of SE Yunnan. His main project continues to involve the investigation of well-preserved plant fossils from the Cretaceous-Tertiary boundary beds of central India. Over the past couple of years, this work has shifted from traditional sectioning of fossils in chert by diamond saw to "virtual" sectioning using X-ray data from the micro-CT scanner. Recent collaborative work has shown that the bizarre extinct fruit type, *Viracarbon*, previously known only from the late Cretaceous of India, was also present in the late Cretaceous of Mexico.

Terry Lott has been working steadily on his monograph of the Miocene Alum Bluff flora. This flora was first published a century ago (Berry, 1916) based on a few scrappy leaves. Improved collections made with the help of Roger Portell, Harley Means, and others have revealed a more diverse plant community than was originally known. The more common elements of the leaf flora include palms, hickories, and elms.

Paleoxylotomist, Nareerat Boonchai (Aom), worked in the lab for several months before returning to her current project in Thailand. She is studying the anatomy of a new fossil wood species from the Miocene at Alum Bluff which she detected belongs to the persimmon family. She is now an International Organisation of Palaeobotany (IOP) correspondent and maintains the Facebook pages for IOP.

Hongshan Wang and Jane Blanchard recently published their work on the fossil flora of Eocene Bovay and Bolden Pits, Mississippi, in *Paleontologia Electronica*: <http://palaeo-electronica.org/content/2016/1596-fossil-plants-from-mississippi>

2017 National Fossil Day Report

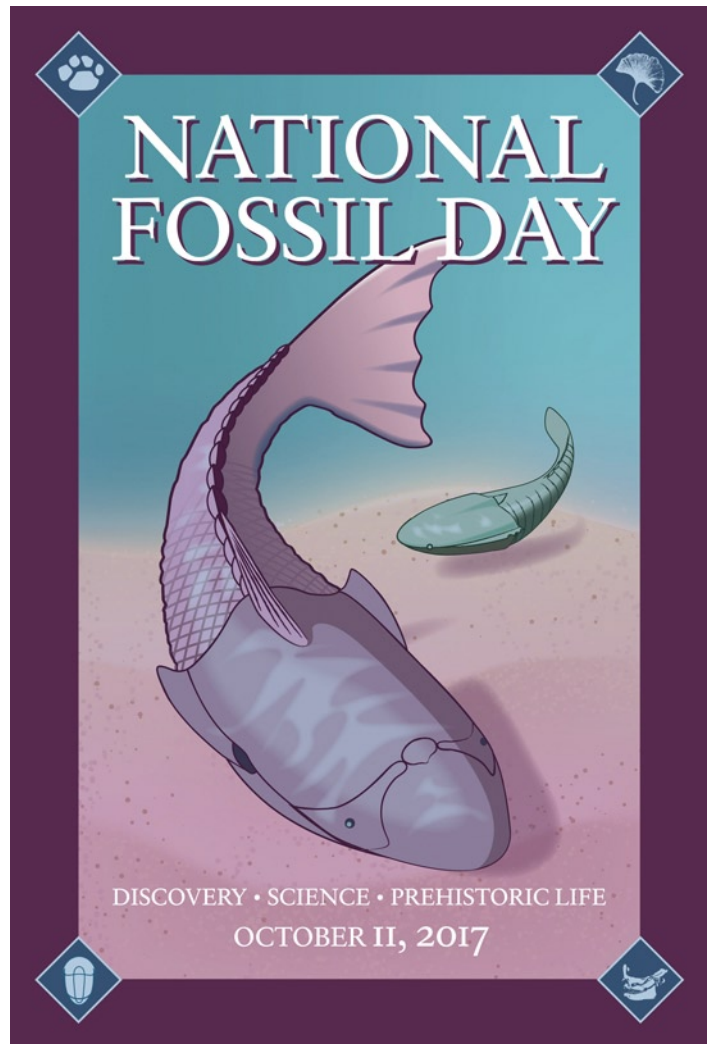
by Paul Roth

The 2017 National Fossil Day (NFD) logo artwork is based upon fossil specimens discovered and collected in Death Valley National Park and depicts a primitive group of fish known as heterostracans (“different shields”). The heterostracans represent an order of early jawless fish that existed between the Early Silurian and the Late Devonian when they became extinct (approximately 358 million years ago). The heterostracans are characterized by an external covering of bony armor plates and by having only one common gill opening on each side of the head region. These early fish lacked any paired or mid-line fins and in many cases, developed extensions of the armor plates that were not flexible but helped provide control in the water. Heterostracans lived in shallow marine environments around an ancient continent known as the Old Red Sandstone (ORS) Continent, which was composed of present day North America, the Canadian Arctic, and Western Europe. If you would like to learn more about the art work please visit <https://go.nps.gov/nfd>

This year, our co-sponsored National Fossil Day event with our Florida paleontology partners was held at the Florida Museum (FM) in Gainesville on Saturday, November 4th. The attendance for the event was 719 adults & 343 children, along with 60+ Club & FM volunteers. I want to thank the FM Invertebrate Paleontology & Paleobotany Divisions, the Florida Fossil Hunters, the Southwest Florida Fossil Society, the Fossil Club of Lee County, the FOSSIL Project, the Manasota Fossil Club, the Florida Geological Foundation, Depot Park (City of Gainesville) and of course the Florida Paleontological Society members for making this event possible. We also want to thank Valerie First and Gunther Lobisch for creating such eye catching displays from their personal collections. Our sincerest thanks to everyone that helped from Powell Hall. We had tons of fossil giveaways between all the clubs, a dry fossil dig pit, and a wet screen wash for the kids; it was like a fossil Halloween. A special shout out to Roger Portell (FM), Pam Plummer, and Jeanette Pirlo (FM) for helping to arrange dig pit materials.

For 2017, FPS along with its paleontology partners completed three NPS Junior Paleontologist Educational Kits. Kits were donated to Grand Canyon National Park (Arizona), Buffalo National River (Arkansas), and Delaware Water Gap National Recreation Area (NJ & PA). We now have created 18 of these awesome kits sent to 10 different states; reaching an estimated 10,000 kids annually! We are very proud of all the progress with this program, something we could have never achieved without the selfless support of our member donations and our paleontology partner organizations. This year, our first Jr. kits were used on the National Mall as part of the NPS National Fossil Day official celebration! Please keep those fossil donations coming as many Junior Paleontologists are counting on us to give them a head start on all things paleo!

The Junior Kits were also featured in the National Park Service's - Park Paleontology Newsletter Fall 2017, which can be viewed at: <https://www.nps.gov/subjects/fossils/newsletters.htm>



2017 Junior Paleontologists Educational Kits



Jr. Kit #16 Grand Canyon National Park (Arizona)



Jr. Kit #17 Buffalo National River (Arkansas)



Jr. Kit #18 Delaware Water Gap National Recreation Area (NJ & PA)

To see more Jr. Kit examples please go to <http://floridapaleosociety.com/nfd-kits/>

Junior Paleontologist Kit Sponsored by:



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*******Reminder*******

Please fill out your annual Fossil Permit report on vertebrate fossils that you've collected on state lands this past year. This is a requirement to re-new your State of Florida permit.

www.flmnh.ufl.edu/vertpaleo/amateur-collector/fossil-permit

Reminder: It is time to submit your 2018 Dues if you have not already done so.

FPS Product Sales		Part 11, Eocene and Oligocene Corals	TBA
Prices are for current FPS members only		Part 12, Mollusca (Fort Thompson Formation)	(On Website)
Shipping and Handling Extra		Part 13, Mollusca (Bermont Formation)	(On Website)
Hulbert, Fossil Vertebrates of Florida	\$31.00	Part 14, Cephalopoda Eocene to Middle Miocene	\$10.00
FPS Special Papers		Part 15, Mollusca (Nashua Formation)	\$10.00
Fossil Sharks and Rays of Gainesville Creeks	\$10.00	Fossil Species of Florida	
Florida Fossil Invertebrates		Number 1, <i>Mammut americanum</i>	\$1.00
Part 1, Eocene Echinoids	\$7.00	Number 2, <i>Tapirus veroensis</i>	\$1.00
Part 2, Oligocene and Miocene Echinoids	\$7.00	T-shirt (Small - XL) Bright Yellow (Field)	\$12.00
Part 3, Pliocene and Pleistocene Echinoids	\$7.00	Coffee Mug	\$4.00
Part 4, Pliocene and Pleistocene		Sales Tax (Florida residents) add	6.5%
Decapod Crustaceans	\$7.00	To purchase the above items, please visit our website at:	
Part 5, Eocene, Oligocene, and		http://floridapaleosociety.com/publications	
Miocene Decapod Crustaceans	\$7.00	or contact: fps@flmnh.ufl.edu	
Part 6, Larger Foraminifera (Introduction)	\$7.00	or contact by mail:	
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**FLORIDA PALEONTOLOGICAL SOCIETY, INC.
APPLICATION FOR MEMBERSHIP**

Mail completed form to :

Florida Paleontological Society, Inc.
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City _____ State _____ Zip Code _____

Primary Email address _____ Primary Phone #(General Contact) _____

Secondary Email address _____ Secondary Phone(Cell#For Field Trips) _____

TYPE OF MEMBERSHIP

- | | |
|--------------------------------------|---------------------------------------|
| 1. INDIVIDUAL ACTIVE (\$20.00) _____ | 2. INSTITUTIONAL (\$20.00) _____ |
| 3. COUPLES (\$25.00) _____ | 4. FAMILY (3 or more \$30.00) _____ |
| 5. LIFE (\$500.00) _____ | 6. ASSOCIATE (under 18 \$10.00) _____ |

NOTE!! MEMBERSHIPS ARE FOR A CALENDAR YEAR AND ARE DUE NO LATER THAN JANUARY 1 EACH YEAR!
PLEASE RENEW ON TIME!

BIOGRAPHICAL FACT SHEET

1. NUMBER OF YEARS OF INTEREST IN PALEONTOLOGY _____
2. WHICH BEST DESCRIBES YOUR STATUS: COLLECTOR ___ OCCASIONAL DEALER ___ FULL TIME DEALER ___
PROFESSIONAL POSITION ___ JUST STARTING ___ VOLUNTEER ___

3. PRIMARY AREAS OF INTEREST:

	VERTEBRATE	INVERTEBRATE	BOTANY	MICRO
PLEISTOCENE	_ _	_ _	_ _	_ _
PLIOCENE	_ _	_ _	_ _	_ _
MIOCENE	_ _	_ _	_ _	_ _
OLIGOCENE	_ _	_ _	_ _	_ _
EOCENE	_ _	_ _	_ _	_ _
EARLIER	_ _	_ _	_ _	_ _

4. LIST ANY PREFERRED TYPES (Echinoids, Crabs, Horses, Sloths, Plants, etc.).

5. LIST ANY PUBLISHED WORKS ON PALEONTOLOGICAL SUBJECTS.

6. DO YOU BUY _____ TRADE _____ FIND _____ FOSSILS?

7. LIST ANY SKILLS OR ABILITIES THAT MAY BE OF USE TO THE SOCIETY'S PROJECTS (RESTORATION, PREPARATION, COMPUTER USE, GRAPHICS SKILLS, SPEAKING, PHOTOGRAPHY, PUBLIC RELATIONS, WRITING, FUND RAISING, ETC.).

8. LIST ANY UNUSUAL SPECIMENS FOUND, CIRCUMSTANCES UNDER WHICH THEY WERE LOCATED AND THEIR DISPOSITION.

PLEASE USE AN ADDITIONAL SHEET IF REQUIRED. THANK YOU!

Payments, contributions, or gifts to the Florida Paleontological Society are not deductible as charitable contributions for federal income tax purposes. Dues payments may be deductible by members as ordinary or necessary business expenses. We recommend that you consult with your tax advisor.

