

MISSISSIPPI GEOLOGICAL SOCIETY

*e***BULLETIN**

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DECEMBER SPEAKER

Paul Parrish MDEQ

Excavation and Analysis of a Campanian Mosasaur

**MISSISSIPPI CRETACEOUS NEOGASTROPODA (STENOGLLOSSA) AND
SELECTED MESOGASTROPODA ILLUSTRATED**

Dr. David Dockery III, RPG



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PRESIDENT'S LETTER



Dear MGS Members,

We are delighted to report on the Fall BBQ held at the Jackson Yacht Club on Thursday, November 9 at 6:00 p.m. The event was a resounding success, marked by the enthusiastic participation of both students and professionals. Your presence truly enriched the gathering, adding a unique value to our event.

We are excited to announce that our monthly meetings will continue this month on Wednesday, the 13th. We are privileged to have Paul Parrish, who will be sharing insights on a Mosasaur excavation undertaken by the Mississippi Office of Geology earlier this year. This fascinating dig captured the attention of several national news outlets, making it a topic of great interest.

As we approach the end of 2023, we hope that it has been an enriching and 'rockin' year for you all. As the holiday season is upon us, we wish you joy, peace, and happiness. May the New Year bring new opportunities and achievements.

Warm Regards,

MGS President

Jonathan R. Leard, RPG

MDEQ-Office of Geology

Surface Geology Division

Phone: (601)-961-5352

Website: <https://www.mdeq.ms.gov/geology/work-areas/surface-geology/>



2023-2024 MGS MEETING SCHEDULE

When	What/Who	Where
September 13	Chad Winter - FC&E Engineering	River Hills - 11:30am
October 11	Tim Palmer	River Hills - 11:30am
November 8	Rawdon Seager	River Hills - 11:30am
December 13	Paul Parrish - MDEQ	River Hills - 11:30am
January		River Hills - 11:30am
February		River Hills – 11:30am
March		River Hills – 11:30am
April	TBD	River Hills - 11:30am
TBD	Spring Fling	Jackson Yacht Club

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SEPTEMBER SPEAKER

Paul Parrish, RPG



**“Excavation and Analysis of a Campanian Mosasaur in
Monroe County, Mississippi”**

Paul Parrish, RPG MDEQ

Wednesday, December 13, 2023

11:30 am

The River Hills Club

Jackson, MS

Biography:

Paul C. Parrish is a Registered Professional Geologist (RPG) and has a B.S. and M.S. in Geology from the University of Southern Mississippi. Paul has worked for the Mississippi Department of Environmental Quality (MDEQ) for 22 years. The first half of his career was spent in the Mississippi Delta. Paul was the Principal Delta Hydrogeologist for the Office of Land and Water Resources (OLWR) within MDEQ. Through data analysis, field work, drilling, and pleasure hiking he has come to know the geology of the Mississippi Delta. The main scope of the work he did in the Mississippi Delta had to do with protecting and quantifying the drinking water and agricultural water resources. The latter part of his time with MDEQ has been spent as the director of the Environmental Geology division with the Mississippi Office of Geology. His work centers around curation and analysis of the State Core and Sample Library, a geophysical logging program, drilling, mapping, and geohazards.



CURRENT PRICES

Market Watch

Crude Oil WTI (NYM \$/bbl) Front Month

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Last Updated: Dec 11, 2023 at 9:48 a.m. EST - Delayed quote

\$ **71.28**

▲ 0.05 0.07%

SETTLEMENT PRICE 12/08/2023

\$71.23



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\$2.581





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MONTHLY POST

Dr. David Dockery III RPG

MISSISSIPPI CRETACEOUS NEOGASTROPODA (STENOGLLOSSA) AND SELECTED MESOGASTROPODA ILLUSTRATED, 2023, MDEQ OFFICE OF GEOLOGY OPEN FILE REPORT OF-337.

David T. Dockery III, RPG

MDEQ Office of Geology Open File Report OF-337 on the Cretaceous Neogastropoda is available as a PDF download on the Office of Geology website and as a hard copy at our Publication Sales Office (for \$20). The book (Figure 1, front cover) is a sequel to Office of Geology Bulletin 129 on *The Streptoneuran Gastropods, Exclusive of the Stenoglossa, of the Coffee Sand (Campanian) of northeastern Mississippi* published in 1993. It could be said that Open File Report OF-337 has been thirty years in the making (web link below).

<https://geology.deq.ms.gov/surface/files/OF337.pdf>

Figure 1

Mississippi Cretaceous Neogastropoda (Stenoglossa) and Selected Mesogastropoda Illustrated.

David T. Dockery III, RPG

Laura Luke, Editor



Exogyra erraticostata Stephenson, 1914, attached to *Lowenstamia funiculus* Sohl, 1964. MGS figured specimen 2735.

OPEN FILE REPORT OF-337

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

OFFICE OF GEOLOGY

2023



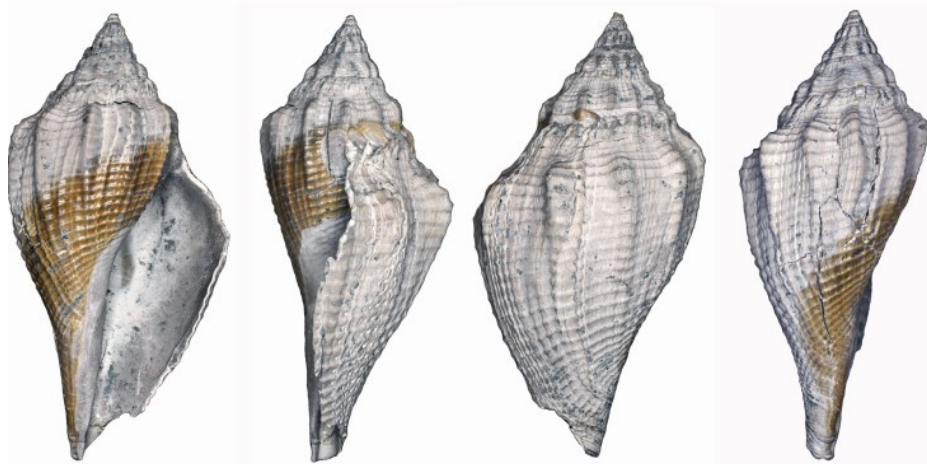
MONTHLY POST

Dr. David Dockery III RPG

Several illustrations from Bulletin 129 were used in *Texas Cretaceous Gastropods* by Rosemary and Thomas Akers, 1997, Texas Paleontology Series Publication Number 6. One species *Epitonium faearium* Dockery, 1993, named after my sister-in-law Terrell Fae Yonkers, was recognized by Perillat, Vega, and Corona, 2000, in *Journal of Paleontology*, v. 74, no. 1, p. 7-24, as occurring in the Lower Maastrichtian Mexcala Formation near the town of Temalac in Guerrero State, Mexico. Then the first ever marine gastropods found in mid-Cretaceous Burmese amber were named *Epitonium zhuoi* and *Epitonium lyui* by Yu, Wang, and Jarzembowski, 2019, and compared to *Epitonium faearium* of Mississippi (see *Rare Marine Gastropod Found in Cretaceous Burmese Amber* in the February 2022 MGS Bulletin).

The new publication on Mississippi's Cretaceous Neogastropods includes 27 new species, two new genera, and one new subfamily. Figure 2 shows the holotypes for two new *Volutomorpha* species, *Volutomorpha carolynae* and *Volutomorpha terrellae*.

Figure 2



Volutomorpha carolynae n. sp., height 93.4 mm, width 45.5 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778043 (MGS figured specimen 2877).



Volutomorpha terrellae n. sp., height 70.5 mm, width 33.9 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778044 (MGS figured specimen 2883).



MONTHLY POST

Dr. David Dockery III RPG

Figure 3 shows the holotypes of two new *Pyropsis* species, *Pyropsis involutus* and *Pyropsis infundibulum*.

Figure 3



Pyropsis involutus n. sp., height 37.3 mm, width 32.4 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778049 (MGS figured specimen 2927).



Pyropsis infundibulum n. sp., height 39.8 mm, width 34.3 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778051 (MGS figured specimen 2930).



MONTHLY POST

Dr. David Dockery III RPG

A new genus *Cylindrofusus* and new subfamily *Cylindrofususinae* were named for the new species *Cylindrofusus patriciae* and *Cylindrofusus laneyae* shown in Figure 4.

Figure 4

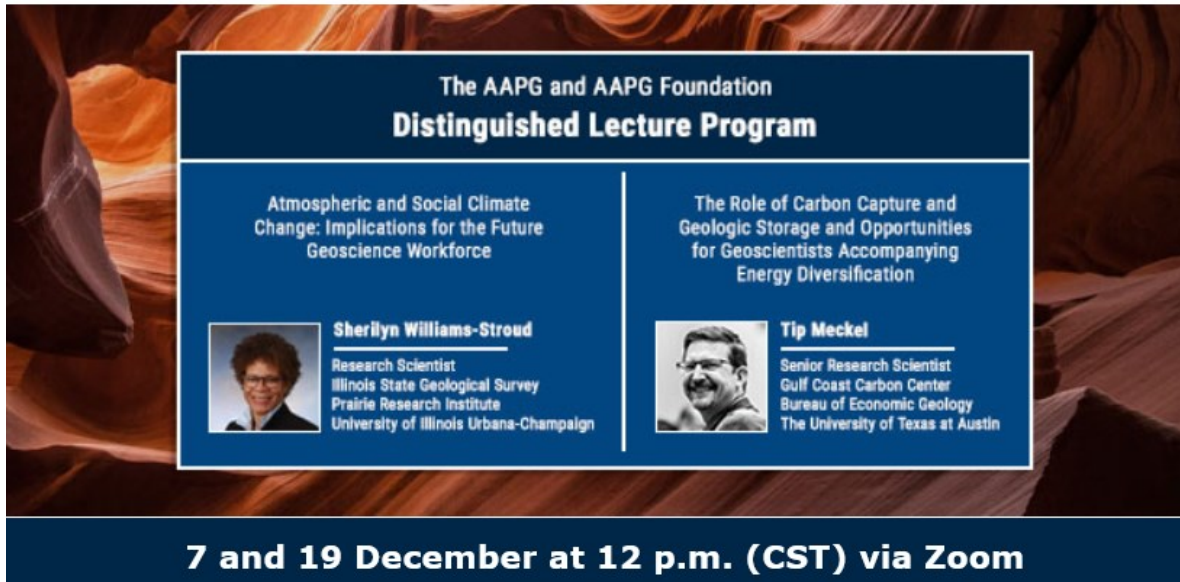


Cylindrofusus n. gen. *patriciae*, n. sp., holotype of genus and species, height 75.5 mm, width 28.2 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. Holotype USNM PAL 778047 (MGS figured specimen 2917).



Cylindrofusus n. gen. *laneyae* n. sp., height 44.1 mm, width 19.8 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778048 (MGS figured specimen 2919).

The end-Cretaceous mass extinction killed off some 70% of Cretaceous species. Among the molluscan Class Cephalopoda, species of the diverse Subclass Ammonoidea were immediately wiped out. Within the Class Gastropoda, the Order Neogastropoda took the biggest hit, especially the Superfamily Pyrifusoidea as recognized by Bandel and Dockery in 2001 (*The Sarganidae (Pyrifusoidea, Latrogastropoda), their taxonomy and paleobiogeography: Journal of the Czech Geological*, v. 46, numbers 3 and 4, p. 335-352). The genera *Volutomorpha*, *Pyropsis*, and *Cylindrofusus* (as shown above) are not related to any of the living marine gastropods in the ocean today.



The AAPG and AAPG Foundation Distinguished Lecture Program	
Atmospheric and Social Climate Change: Implications for the Future Geoscience Workforce  Sherilyn Williams-Stroud Research Scientist Illinois State Geological Survey Prairie Research Institute University of Illinois Urbana-Champaign	The Role of Carbon Capture and Geologic Storage and Opportunities for Geoscientists Accompanying Energy Diversification  Tip Meckel Senior Research Scientist Gulf Coast Carbon Center Bureau of Economic Geology The University of Texas at Austin

7 and 19 December at 12 p.m. (CST) via Zoom

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GEOLOGY POST

ARTICLES, PAPERS or NEWS?

ATTENTION!!!!!! Industry, Professors and Students:

I am looking for more content from the industry and our schools.

Submissions can include anything from professional papers, thesis abstracts, job opportunities to pictures. Anything!!!!

If you have any information or news you would like to share with the Society **PLEASE** email them to the MGS Editor at:

mcaton13@yahoo.com

Thanks & Regards,

Matt Caton
Editor

GEO LINK POST

USGS TAPESTRY OF TIME AND TERRAIN <http://tapestry.usgs.gov> The CCGS is donating to all of the 5th and 6th grade schools in the Coastal Bend. Check it out—it is a spectacular map. You might want a framed one for your own office. The one in my office has glass and a metal frame, and it cost \$400 and it does not look as good as the ones we are giving to the schools. Call Owen 510-6224 if you want one for your office for \$150. Duncan, Mike, Chris, Dave, Bob Randy, Seb., Kevin, Ken, Craig, Patrick, Robert.

FREE TEXAS TOPO'S <http://www.tnris.state.tx.us/digital.htm> these are TIFF files from your state government that can be downloaded and printed. You can add them to SMT by converting them first in Globalmapper. Other digital data as well.

FREE NATIONAL TOPO'S [http://store.usgs.gov/b2c_usgs/b2c/start/\(xcm=r3standardpitrex_prd\)/.do](http://store.usgs.gov/b2c_usgs/b2c/start/(xcm=r3standardpitrex_prd)/.do) go to this webpage and look on the extreme right side to the box titled TOPO MAPS DOWNLOAD TOPO MAPS FREE.

<http://www.geographynetwork.com/> Go here and try their top 5 map services. My favorite is 'USGS Elevation Date.' Zoom in on your favorite places and see great shaded relief images. One of my favorites is the Great Sand Dunes National Park in south central Colorado. Nice Dunes.

<http://antwrp.gsfc.nasa.gov/apod/astropix.html> Astronomy picture of the day — awesome. I click this page everyday.

<http://www.spacimaging.com/gallery/ioweek/iow.htm> Amazing satellite images. Check out the gallery.

<http://www.ngdc.noaa.gov/seg/topo/globegal.shtml> More great maps to share with kids and students.

www.geo.org Don't forget we have our own web page.

<http://micro.magneet.fsu.edu/primer/java/scienceoptiscu/owersofl0/>

<http://asterweb.jpl.nasa.gov/galery/default.htm> Great satellite images of volcanoes

<http://terra.nasa.gov/gallery/> More here

www.ermapper.com They have a great free downloadable viewer for TIFF and other graphic files called ER Viewer.

www.drillinginfo.com This is an incredible (subscription) well and completion data service for independents. Can be demo'ed for free.

<http://terraserver.com/> Go here to download free aerial photo images that can be plotted under your digital land and well data. Images down to 1 meter resolution, searchable by Lat Long coordinate. Useful for resolving well location questions.

<http://www.fs.fed.us/gpnmf/volcanocams/msh/> This is a live cam of Mt. St. Helens refreshed every 5 minutes. At the bottom are old videos of past eruptions in this cycle. It is worth a watch especially now.



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