



Volume 68 ♦ Number 11 ♦ November 2022 ♦ A monthly newsletter for and by the members of MAGS

# The Mining Cycle

November Program

Alan Parks



The program will be presented by Alan Parks, MAGS Member and Vice President of Memphis Stone & Gravel Co. The program title will be the “The Mining Cycle” Alan will take us through the process of locating potential mining sites and steps they go through

to get the mine operational and, when finished, return it to its original condition.

This is a perfect preamble to the November 12 MAGS field trip, to one of Memphis Stone & Gravel’s sites. Details at the meeting.

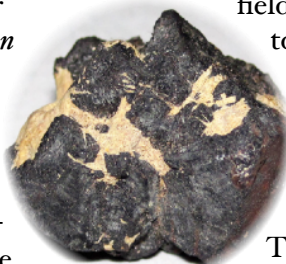
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## MAGNET COVE FIELD TRIP REPORT

*Field trip to Magnet Cove for the Spring River Gem and Mineral Club, led by Mike Howard on October 15th, 2022*

A group of eight collecting enthusiasts met at the Valero Station just west of Malvern, Arkansas, at 10:30 A.M. It was a beautiful sunny fall day with the highs hitting 83 by noon! After introductions by the



## NOTES BY MIKE HOWARD

field trip leader, Mike gave a brief introduction to the geology of Arkansas and the local region and then displayed a map of the Magnet Cove intrusion that was part of the *USGS Professional Paper 425*. Then a brief discussion of the different rock types on the map and the sites we would be visiting. Then we headed out on Hwy

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# MEMPHIS ARCHAEOLOGICAL AND GEOLOGICAL SOCIETY

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## 2022 MAGS BOARD

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## MAGS AND FEDERATION NOTES

Memphis Archaeological and Geological Society,  
Memphis, Tennessee

The objectives of this society shall be as set out in the Charter of Incorporation issued by the State of Tennessee on September 29, 1958, as follows: for the purpose of promoting an active interest in the geological finds and data by scientific methods; to offer possible assistance to any archaeologist or geologist in the general area covered by the work and purposes of this society; to discourage commercialization of archaeology and work to its elimination and to assist in the younger members of the society; to publicize and create further public interest in the archaeological and geological field in the general area of the Mid-South and conduct means of displaying, publishing and conducting public forums for scientific and educational purposes.

MAGS General Membership Meetings and MAGS Youth Meetings are held at 7:00 P. M. on the second Friday of every month, year round. The meetings are held in the Fellowship Hall of Shady Grove Presbyterian Church, 5530 Shady Grove Road, Memphis, Tennessee.

MAGS Website: [memphisgeology.org](http://memphisgeology.org)

MAGS Show Website: <https://earthwideopen.wixsite.com/rocks>

We aren't kidding when we say this is a newsletter for and by the members of MAGS. An article with a byline was written by a MAGS Member, unless explicitly stated otherwise. If there is no byline, the article was written or compiled by the Editor. Please contribute articles or pictures on any subject of interest to rockhounds. If it interests you it probably interests others. The 20th of the month is the deadline for next month's issue. Send material to [lybanon@earthlink.net](mailto:lybanon@earthlink.net).

### November DMC Field Trip

WHERE: Cumberland Furnace, TN (registration required)

WHEN: Saturday, November 5, 10:00 A.M.-2:00 P.M.

COLLECTING: Slag Glass

CONTACT: John Martin, (615) 210-5385 or [info@mtgms.org](mailto:info@mtgms.org)

### Links to Federation News

- ➔ AFMS: [www.amfed.org/afms\\_news.htm](http://www.amfed.org/afms_news.htm)
- ➔ SFMS: [www.amfed.org/sfms/](http://www.amfed.org/sfms/)
- ➔ DMC: [www.amfed.org/sfms/dmc/dmc.htm](http://www.amfed.org/sfms/dmc/dmc.htm)

**President’s Message**

**Schedule to End of 2022**

<b>Date/Event</b>	<b>Details</b>
Friday/Saturday, November 4/5 Field trip to Farmington, Missouri	Betty Marler, a longtime friend and field trip leader to MAGS, is having her “retirement field trip” during the first week of November. Betty turned 90 in April and has taken MAGS on trips spanning three decades. Here is some information: <ul style="list-style-type: none"> <li>• Collection dates Friday, November 4 and Saturday, November 5.</li> <li>• Collecting druse quartz, barite, calcite, and lace agates.</li> <li>• Motels in Farmington include Quality Inn and Holiday Inn Express.</li> <li>• Will meet each day at 8:30 A.M., 5084 Flat River Road, Farmington. This is Betty’s house.</li> <li>• Check with W.C., (901) 490-3575.</li> </ul>
Friday, November 11 MAGS Membership Meeting	Program: Alan Parks, Gravel Pit Mining
Saturday, November 12 Field trip to Memphis Stone & Gravel Co.	Specific mine will be named later. This is an easy collecting site with great finds.
Friday, December 9 MAGS Membership Meeting	Holiday Party

**W. C.**

**Greetings,**

**MAGS Members**

*Bob Cooper, Membership Director*

This is a reminder it is time to renew your MAGS membership for the year 2023. The annual membership runs from January 1 to December 31 and should be renewed before December 31 for the following year. You can renew your 2023 membership at our regular Friday night Membership Meetings (at the sign-in desk) or you can mail a check to me at Bob Cooper, 1930 Elzey Ave, Memphis, TN 38104. Please make the check payable to MAGS.

**Individual (single) \$15**

**Family \$25**



As an incentive to renew your 2023 membership in October, November, or December, I will give two Members a chance to win one of two beautifully polished agates. The agates were polished by David McAlister, a MAGS Lifetime Member. Also, anyone who renews before the end of November will be given an EXTRA chance in the drawing. The drawing will be held at the January 2023 Membership Meeting.



**Good Question**

*Matthew Lybanon, Editor*

At the October MAGS Membership Meeting, a young Member asked an excellent question. He had just seen—and handled—a shatter cone from Wells Creek. What, he wanted to know, caused its characteristic shape? Mike Baldwin, the speaker, gave a brief explanation. For those of you who weren’t there, as well as those who were there and might like more detail, read on.

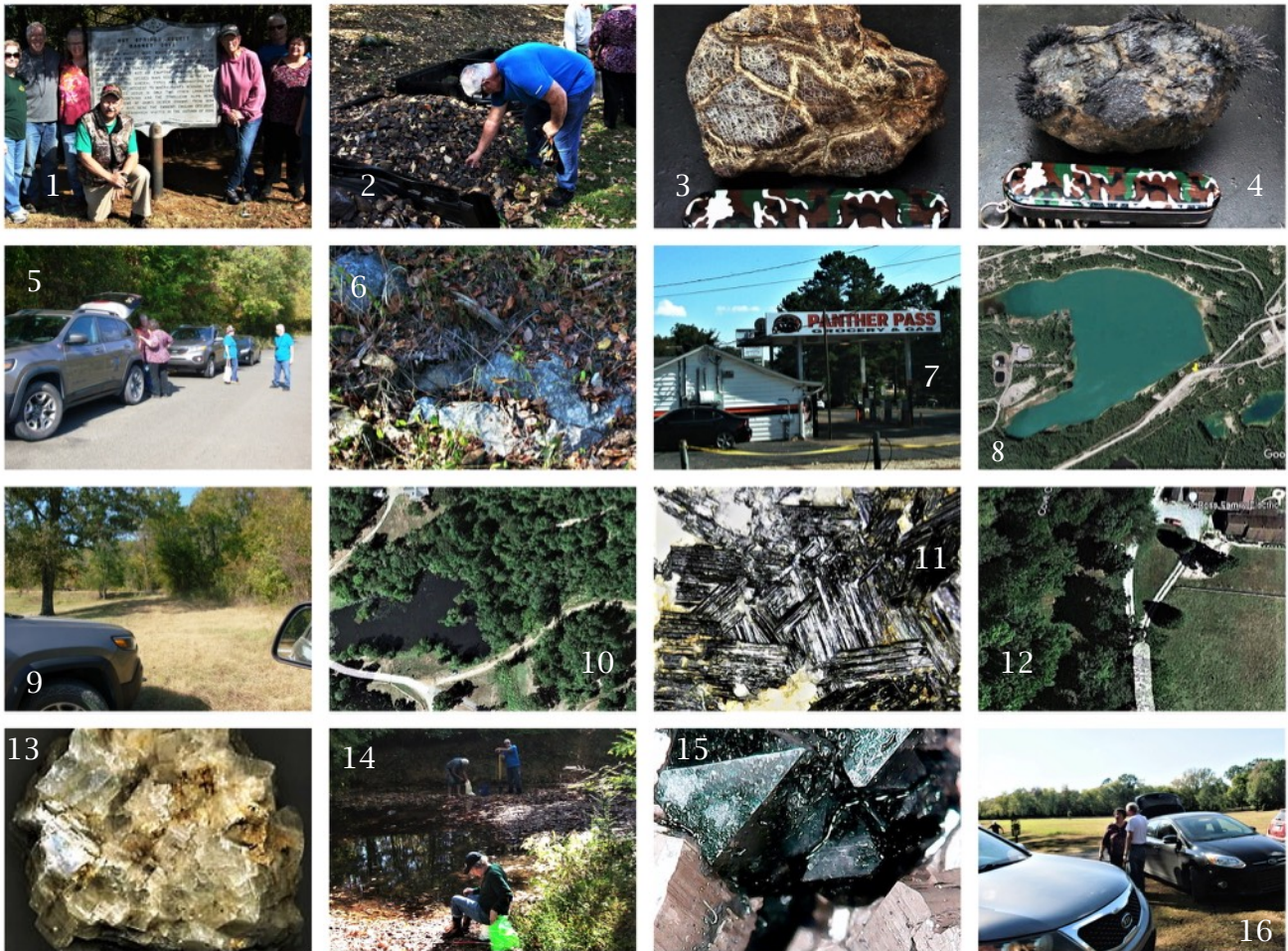
(One good source of information is an article in the March 2011 *MAGS Rockhound News*, “Wells Creek Impact Crater,” written by—surprise—Mike Baldwin. Aside from quite a bit of detail there is a list of references at the end.)

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# MEMPHIS ARCHAEOLOGICAL AND GEOLOGICAL SOCIETY

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*Magnet Cove Field Trip* 27°W a short mile to the Hwy 51 turnoff to Magnet Cove.

The first place we stopped was at the Centennial Highway Marker, placed by the Centennial Commission in 1936 next to Highway 51 (Picture 1). Time for a group picture. Next we drove to Jim Kimzey's property near the marker. He was kind enough to let us collect off his accumulated magnetite piles, and then gave each participant a specimen of lodestone. (Pictures 2, 3, and 4).

Bidding Jim goodbye we headed to our second stop of the day, a

roadside outcrop of Garnet Pseudoleucite Nepheline Syenite (GPNS), where we had to park in the road with our flashers on while we collected samples (Pictures 5 and 6).

Then due to the time, we headed to Panther Gap Station for lunch on Hwy 51 east of Magnet Cove (Picture 7). Everyone enjoyed their lunch and pit stops, and we were back on the road to visit the site of the largest barite open pit mine in the North American Continent, to the northeast of Magnet Cove proper (Picture 8 —Google earth image of the pit. Pin marks our overlook location). Having not had any rain for weeks,

the dirt road to this site threw up clouds of dust so everyone's car needed to be washed!

We left that location and headed back south to Highway 51 and on to Beaver Lake Estates Road, which took us to the long abandoned Titanium Corporation of America Pit where we collected small pyrite cubes and black rutile (Pictures 9, 10, and 11).

When we tired of that, we headed back east on Hwy 51 to the east side of the Cove Creek Bridge, turning in and parking close to Cove Creek (Picture 12). We hunted for samples of magmatic calcite,

*Continued, P. 5*

*Magnet Cove Field Trip* known as the rock type carbonatite, which were scattered across the gravel bar. Numerous representative specimens were collected (Picture 13).  
*Continued from P. 1*

And finally we headed to the last stop, taking Gourd Neck Road north off of Highway 51, to beyond the iron bridge over upper Cove Creek. Due to a dead tree having fallen across the gravel bar access drive, we parked on the opposite side of the road and walked the short distance over to the creek, several hardy souls wading the creek to collect a bucket of tailings from the recently active diggings in the creek wall (Picture 14). Material will be taken home and screened to hunt for small goodies of pyrite, smoky quartz crystals, feldspar crystals, and brookite crystals! Picture 15 shows the potential of what could be found on this site. And Picture 16 shows some of the goodbyes at the end of the day!

*Good Question* Background:  
*Continued from P. 3* The Wells

Creek Basin is a round, two-mile wide valley in Houston and Stewart counties, Tennessee. The basin is composed of soil weathered from deeply buried limestone that was thrust to the surface by a meteor impact 95-320 million years ago. Wells Creek is a confirmed meteorite impact site. The Wells Creek structure was first noticed by railroad surveyors around 1855 and brought to the attention of J.M. Safford, Tennessee's State Geologist. He included an insert in the 1869 Geologic Map of Tennessee, which is the first known map to include the structure.

The center rock, which is raised 2,500 ft, and soil are like the ridge at Knoxville; nearby farmland is like that near Murfreesboro and Columbia. The valley results from dissolving uplifted limestone surrounded by forested hills of flinty rock. Two fault rings surround the valley: the outer one is four miles from the center and touches the town of Erin.

The exact size of the meteor, and the date of the impact, are not precisely known. But (according to the *Tennessee Encyclopedia*) a 20-million-ton meteor or comet striking at 25 miles per second (90,000



mph) could blast a four-mile crater and make the uplift and ring faults. A stony meteor that heavy would be 900 feet in diameter. The American Museum of Natural History estimates the crater's diameter as eight miles (13 km). The uncertainty is due to the erosion and other natural processes that have occurred during the long period since the impact.

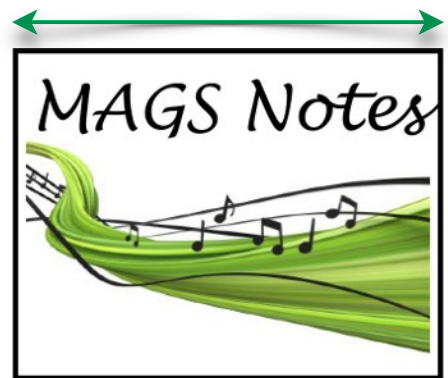
Here is the explanation of how shatter cones are formed, according to an American Museum of Natural History article (<https://www.amnh.org/exhibitions/permanent/meteorites/meteorite-impacts/earth-impacts/all-craters-great-and-small/shatter-cone>):

“Shatter cones form when the shock wave from a meteorite impact travels down into the rock layers below. The intense pressure cracks the rock in a branching pattern, leaving cone-shaped chunks pointing toward the center of the impact. The tiny ridgelines radiating from the tip of the cone are



imprints of the shattering shock wave frozen into the rock's surface.”

An article from Vanderbilt University's Dyer Observatory (<https://dyer.vanderbilt.edu/sf050120/>) points out that “If undisturbed by other geologic activity, the cones' tips point upward and inward toward the original source of impact. The central uplift of the Wells Creek crater is well known for its plentiful and nicely detailed shatter cones composed of Knox Dolomite.”



♪ **Adult Programs**

November 11: Alan Parks, The Mining Cycle  
*Continued, P. 6*



# MEMPHIS ARCHAEOLOGICAL AND GEOLOGICAL SOCIETY

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## MAGS Notes

Continued from P. 5

December 9: Holiday Party

## Junior Programs

November 11: TBD

December 9: Holiday Party (with adults)

## Field Trips

November 4&5: Missouri

November 12: Memphis Stone & Gravel Co.

December: None

## New Members

Kerrie Rogers & Kenneth Ward, and son Lucas Ward

## November Birthdays

- |    |  |
|----|--|
| 1  | W.C. McDaniel                          |
| 5  | Keagan Paterson McMann                 |
| 7  | Rachel Conner                          |
| 8  | Josh Anderson                          |
| 13 | Matthew Lambert                        |
| 14 | Robin Brown                            |
| 17 | Gabriela Wrasse                        |
| 18 | Cathie Jacobs                          |
| 19 | Eddie Childers<br>Nina Riding          |
| 20 | Will Kitkowski                         |
| 21 | Tabitha Lambert                        |
| 22 | Melba Cole                             |
| 23 | James Brown<br>Shirley Ruth Chrisman   |
| 24 | Charles Carter                         |
| 25 | Gloria Klauser                         |
| 27 | Dylan George                           |
| 28 | Alan Parks                             |
| 29 | Nedra Baum<br>Bebe Buck<br>Eve Webster |

## Want to Be a Member?

To become a MAGS Member, just go to our website at [www.memphis-geology.org](http://www.memphis-geology.org) and print out an application form. There is a prorated fee schedule for new Members only.

Mail the completed application along with the dues payment to the Membership Director shown on the form. If you are unable to print the application, you can pick one up at the sign-in desk at any of our Friday night Membership Meetings, or simply join at the meeting. Visitors are always welcome at our Membership Meetings but membership is required to attend our field trips.

The most important benefit of being a MAGS Member is getting to know and make friends with other Members who have similar interest in rocks, minerals, fossils, and archaeology. All new Members will receive a New Member Packet, a MAGS ID card, and a monthly newsletter via email. Members are entitled to go on our monthly field trips and get free admission to our annual Show.

## Book Review—

### *Cretaceous Crick*

Matthew Lybanon, Editor

*Cretaceous Crick*, Mick Tune, independently published, ISBN-13



## Fossil Road Show & Geology Fest



Saturday, Nov. 5, 2022, 10am to 3pm

Oren Dunn City Museum 689 Rutherford Rd.

At Ballard Park Adm. Free

Professionals on hand to ID your fossil/rock

Fun Activities Displays Grab Bags Food Truck

For more Information: [www.nmgms.org](http://www.nmgms.org)

ODCM: 662-841-6438

Tupelo, Mississippi



: 979-8838028181, (paperback) also available in a Kindle edition ([https://www.amazon.com/Cretaceous-Crick-Mick-Tune-ebook/dp/B0B5Y57JNH/ref=tmm\\_k-in\\_swatch\\_0?encoding=UTF8&qid=&sr=](https://www.amazon.com/Cretaceous-Crick-Mick-Tune-ebook/dp/B0B5Y57JNH/ref=tmm_k-in_swatch_0?encoding=UTF8&qid=&sr=))

This book is a collection of stories (each chapter is a story) by a Dallas Paleontological Society member who was born in Tennessee near Nashville (he also lived in Cookeville for a time) and graduated from Vanderbilt. He now lives in north Texas. Lots of pictures illustrate the stories.

The stories alternate between fossil hunting in the Hell Creek Formation (and other places) and portraits of people and places. Some of those people are well-known. One fossil-hunting-related story is about packing a two-foot-across fossilized turtle to get it from southeastern Montana to Heath, Texas (just east of Dallas).

The first fossil hunting story involves hunting in Dead Cow Gulch. "OK. So why do you call it Dead Cow Gulch?" Mick Tune asks his friend Sal (the property owner). "Well," she *Continued, P. 8*

## Fabulous Tennessee Fossils

*Dr. Michael A. Gibson,  
University of Tennessee at Martin*

### FTF 93

Michael A. Gibson—UT Martin Paleontologist



I had planned to write about a paleontologist from UTK for the second installment of this series of articles on Tennessee paleontologists, but one of the readers suggested that even though I have written over 90 articles for the MAGS Newsletter, most MAGS-ers really do not know my background, and that I should perhaps use this opportunity to share my background with you; so, here it goes. I was born (1957) and grew-up in Williamsburg, Virginia, well known for its colonial history and archaeological riches (which was my first academic love, along with Egyptian history), but it is also a place well-endowed with fossil riches. Pliocene-age invertebrate and vertebrate fossils were abundantly exposed in the ditches and fields that I played in during my formative years. I am also a “beach person”—my favorite place to be, where I would collect seashells and other “treasures” (my first “collection” was a seashell collection). I began digging fossils from my neighborhood at the age of seven and I amassed a fossil collection of over 400 specimens (which I still have) by the time I started college.

Imagine my delight when during an elementary school assembly, William and Mary paleontologist Dr. Gerald H. Johnson brought Pliocene whale vertebrae and seashells to share with us. He enthralled me and gave meaning to

my fossil collection. He gave me my first touch of a real fossil whale vertebra (not yet in my collection at that time). The intersection of me finding fossil seashells near my home and learning that whales used to inhabit my neighborhood’s ancient past, and that my home was once the sea floor, was all the encouragement I needed to expand my exploring range and my collecting mania. My 9th grade class was Mrs. Garrington’s Earth science, and I was focused on fossils, minerals, and rocks. I discovered geologic time in that class. When college rolled around (1975), I enrolled at the College of William and Mary and chose geology as my major. My elementary school hero, Dr. G.H. Johnson, “Dr. J”, became my academic advisor and favorite instructor. I took every class he offered and quickly learned that the best learning occurs “in the field” (duh!). We often met at 5 A.M. for a quick couple hours of Pliocene marine fossil collecting at King’s Mill on the James before rushing to our 8 A.M. classes with mud caking our boots. I graduated from W&M in 1979, but worked in the hotel business in Williamsburg until 1981, when I entered the master’s program at Auburn University and fell under the mentorship of Dr. Robert Gastaldo, a paleobotanist.

Bob allowed me to be a “paleobotanist’s token invertebrate paleoecologist”. While I learned the

paleobotany field from him, for my thesis I researched the invertebrate fossils of the Upper Cliff coals (Pennsylvanian) of northern Alabama, which resulted in my first four publications. Upon finishing my master’s degree in 1983, Auburn hired me in a one-year instructorship in which I taught physical and historical geology and even upper division paleontology (I was now hooked on being a college professor)! I should also mention that while at Auburn, I met my wife Edie and we married in 1983 just a couple weeks before I became a university instructor.

In 1984, I moved to the University of Tennessee at Knoxville to work under Thomas Broadhead (crinoid specialist). I shifted down into the middle Paleozoic for my research which was focused on biotic interactions preserved in the marine Ross Formation of Western Tennessee (Lower Devonian). I was the first person to work on this fauna since the great Carl O. Dunbar from Yale. While at UTK, I was given the honor of teaching Historical Geology as an instructor, not the T.A., as well as serving an editorial associate for the Paleontological Society’s Short Course Notes series in paleontology. In 1988, I completed my Ph.D. and was immediately hired to replace Kenneth V. Bordeau (See FTF 92), who retired unexpectedly. Edie and I arrived just two-weeks before

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*Fabulous Tennessee Fossils* classes began in August of 1988.

*Continued from P. 7*

It was fortuitous that I ended-up at UT Martin as it is close to my Ph.D. Devonian research area and allowed me to continue that research. Also, West Tennessee geology was “wide open” for research at that time. Almost no geologic maps were published and only a few of the many geologic units had received anything more than a cursory study. I was one of only a select few (actually only 3) paleontologists in the entire region, so there was so much that I could do! I have now worked in every Silurian and Devonian geologic formation in West Tennessee and dabbled in all of the other units. Additionally, I have been able to expand my research interests in many directions over the past 33 years at UTM included 16 trips to Central America to study stromatolites and the ejecta blanket from the Chicxulub impact event, enjoyed more than 30 years of association with the Coon Creek Formation and the Pink Palace Museum (now MoSH), named fossil genera and species, and so much more. Other studies include stromatolites from the Cambrian of East Tennessee, Eocene plant fossils from the Claiborne Formation in West Tennessee, Eocene trace fossils from Japan, more work in the Pennsylvanian coal fields of northern Alabama, and much more. I have also had the great fortune to teach marine geology at the Dauphin Island Sea Lab in Alabama for sixteen summers (their longest-running marine geologist) and be the advisor for the Tennessee Earth Science Teachers since 1991 when it was formed. I have had the honor to serve at the national level in the Geological Society of America, Paleontological Society (National Chair of Education for 6 years; Southeastern Section Chair twice) and National Association of Geoscience Teachers (several posts), and many more wonderful opportunities to serve the professional community. Most recently, as MAGSters are aware, my work with the Coon Creek Science Center has resulted in the site becoming an extended campus under UT Martin, where it can thrive under that protective umbrella and receive an infusion of resources.

My specialties began with invertebrates and expanded to all five kingdoms of life. It expanded from Pliocene (a little over 10 million years old) to the entire geologic column. I went from just a fossil collector, to fossil teacher. Over my 33-year career at UTM, I have been able to broaden into paleobotany and vertebrate paleontology, but also add the fields of oceanography and marine geology, geoscience educator, and geohistorian to my expertise. I feel fortunate to have made a career doing what I enjoyed as a kid—collecting fossils and sharing them with you.

*Cretaceous Crick* replied, rather unconcerned and matter of fact, “there are a lot of rattlesnakes up in there. Mind your step.” He was warned. He minded his step, and found part of a *T. rex* hip bone in a thin layer of sandstone. There was also a piece of triceratops rib, near where he saw a rabbit as big as the one in the Monty Python *Holy Grail* movie.

The famous people include

two former U.S. Presidents. One of them is a particular hero of Tune’s, Teddy Roosevelt: T.R. was not just just a rich man’s son who had a political career (after being NYC Police Commissioner he was Undersecretary of the Navy, Governor of New York, Vice President, and our 26th President—the youngest President ever). Roosevelt went backcountry camping with John Muir in Yosemite while he was President. Aside from



Figure 1. Photo of UT Martin Paleontologist Michael A. Gibson aboard the research ship Verrill bestowing the value of marine mud to students in marine geology.

building the Panama Canal and leading the Rough Riders up San Juan Hill (while he was Undersecretary of the Navy), he was a Nobel Peace Prize winner—the first American to win that prize. While he was President he set aside 230 million acres of land in 31 states as national parks, national forests, national monuments, and the like. Quite a guy.

Thomas Jefferson is the other *Continued, P. 9*



# MEMPHIS ARCHAEOLOGICAL AND GEOLOGICAL SOCIETY

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*Cretaceous Crick* President. We *Continued from P. 8* learn that Jefferson discovered a new species of ground sloth in 1797, named *Megalonyx jeffersonii* in his honor. He was fascinated by mastodon fossils. When Jefferson commissioned the Lewis and Clark expedition he asked them to keep an eye out for mastodons. Later chapters cover people who explored some of the territory that Lewis and Clark visited. One is Sir George Gore, an Irish nobleman who was in the Yellowstone River Valley for 10 months in 1855-56. Gore hired Jim Bridger as a guide. Bridger was a trapper and Army scout, who married the daughters of three Native American chiefs. He was also the first reported non-Native-American to describe the geological wonders of what is now Yellowstone National Park. It's worth looking up both of these men.

Tune's friend Sal has a pedigree: Her mother was a second cousin to Jesse James and also related to John Dillinger. Sal was born in Montana and lives there today. She's lived on her land for a long time. But going back a much longer time, 70 million years ago her place was part of a broad plain that went from the newly forming Rocky Mountains into the Western Interior Seaway. The last of the dinosaurs lived there, and now their fossils are there. Also lots of agatized petrified wood. Strangely, the marine layers eroding out of the slot canyon that contains the North Sulphur River in Texas (near Tune's home) are exactly the same age as the terrestrial layers eroding on Sal's badlands ranch.

This book has a lot of information, but it's not like a textbook. Tune's informal writing style makes it entertaining. It's a quick read, and well worth the time.

## September Board Minutes *Mike Coulson*

Zoom meeting called to order 6:30. Present: W.C. McDaniel, Carol Lybanon, Matthew Lybanon, Bonnie & Bob Cooper, Mike Coulson, Mike Baldwin, Nannett McDougal-Dykes, Melissa Koontz, Dave Clarke, Jim Butchko, Kathy Baker.

**New Business:** Club needs to establish a nominating committee for Board Members to serve in 2023-24

**Show:** 2023 Show will be held at the Agricenter. Final plans are being discussed. Jim Butchko appointed Show Chair for 2023.

**Treasurer:** Report presented and approved. September newsletter printed and mailed out Saturday morning.

**Membership:** One new Member.

**Secretary:** Minutes submitted via email, presented, and approved.

**Adult Programs:** September 9: Dr. Jennifer Gifford. October 14: Mike Baldwin, Careers in Geology. November 11: Alan Parks. December 9: Holiday Party.

**Field Trips:** September 9: Richardson Landing. September 24: DMC Trip. October 15: Nonconnah Creek. November 3-6: Missouri Trip led by Betty Marler. November 12: Memphis Stone & Gravel Co., specific location TBA. No field trip in December.

**Youth Programs:** September 9: Intro to wire wrapping with Rena. October 14: Youth combined with adults. Mike Baldwin, careers in geology. November 11: Plant/Fossil activity, December 9: Combined Youth and Adult Holiday Party.

**Newsletter:** Deadline to submit

content is the 20<sup>th</sup> of the month.

**Web:** Waiting to update the website until field trip information is available.

**Rock Swaps:** October 8 swap will be at the home of Lou White, 9am-2pm.

**Library:** Library is doing great, six new books to add.

**Old Business:** None.

Adjourned 6:54.

## September Meeting Minutes

*Mike Coulson*

Dr. Jennifer Gifford, Associate Professor, University of Mississippi was the speaker.

## Federation News

The Southeast Federation of Mineralogical Societies (SFMS) Annual Meeting will be held November 18-20 in conjunction with the Cobb County Annual Show, sponsored by the Cobb County Gem and Mineral Society. The main location will be the Cobb County Civic Center, 548 S. Marietta Parkway, Marietta, Georgia.

Here is the schedule:

**Friday:** 6:30-9:00 P.M., Social Meet and Greet, at the Clubhouse, 516 W. Atlanta Street SE, Marietta, Georgia.

**Saturday:** SFMS Annual Meeting. 8:30 A.M., Registration. 9:00 A.M., Meeting. 6:30 P.M., SFMS Banquet.

**Sunday:** Editor's Breakfast, 8:30 A.M., Meeting Room.

The Cobb County Annual Show will also be held in the Cobb County Civic Center, on Saturday (10:00 A.M.-6:00 P.M.) and Sunday (10:00 A.M.-5:00 P.M.).

# MAGS At A Glance

## November 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	1 Zoom Board Meeting, 6:30 pm	2	3	4 MAGS Field Trip to Missouri	5 MAGS Field Trip to Missouri/ DMC Field Trip
6 	7	8 	9	10	11 Membership Meeting, Alan Parks, The Mining Cycle/ * Veterans Day *	12 MAGS Field Trip to Memphis Stone & Gravel Co.
13	14	15	16	17	18	19
20	21	22	23	24 	25	26
27	28	29	30	1	2	3

Memphis Archaeological and Geological Society  
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