

# Newsletter



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## Geologic Resource Utilization for Mining with Hammerstone Tools at Two Distinct Prehistoric Orthoquartzite Quarries in Mississippi

by

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**Surface Geology/Surface Mapping Program Director**

Native Americans exploited high-quality orthoquartzite resources in central and south Mississippi along Tertiary outcrops of Tallahatta, Kosciusko, Cockfield, Catahoula, and Hattiesburg formations. In these prehistoric quarries, hammerstone tools were utilized to mine thick orthoquartzite beds. This type of activity required durable tools much harder than that of the stone being quarried. Therefore, the tools utilized must have been acquired from separate geologic resources than the quarried stone. This became apparent after studying lithic assemblages in two prehistoric quarries located in different geological settings (see figures on pg. 2).

At site 22Ne579, hammerstone tools of exclusively Kosciusko Quartzite were identified at an extensive prehistoric quarry in Neshoba County located in the Basic City (Tallahatta Formation). Kosciusko Quartzite is an orthoquartzite derived from fine-grained sandstone by interlocking regrowth of quartz grains. It is durable stone much harder than the opaline/chalcedony-cemented orthoquartzite of the Tallahatta Formation. Quartzite-bearing Kosciusko Sandstone outcrops are limited to the Attala County area. Therefore, these stone tools were imported a considerable distance for the sole purpose of mining.

At site 22Fr1431, hammerstone tools exclusively of Sioux Quartzite were identified in Franklin County at a prehistoric quarry of Hattiesburg Quartzite. Sioux Quartzite is a Precambrian age metaquartzite found in Pre-loess Terrace Deposits, which underlie west Mississippi's Loess Bluff region. It is common as large gravel clast and extremely impact-resistant making it ideal as a tool to mine the fine-grained, opal-cemented orthoquartzite of the Hattiesburg Formation. Cobbles of Sioux Quartzite were likely collected west of the Homochitto River from gravel in nearby streams.

### President's Letter

Hello to all! I hope the summer is treating you well. If you have been out in the field working, I also hope that you have managed to stay cool and dry. This summer has been a hot and wet one, for sure. I know several field schools have taken place so far, as well as lots of contract work all over the state. I encourage all of you who have been working on projects to submit a paper to our journal or consider a presentation for next year's annual meeting. The easiest way for us to learn what has been going on around the state is for you to tell us!

Additionally, Archaeology Month is right around the corner, so I also encourage all of you to consider ways in which you can get involved with it. There will be talks, presentations, artifact identifications, etc., as well as the Archaeology Expo in Batesville. As you can see, there are lots of opportunities and if you do not find something you like, feel free to come up with your own contributions. That is part of what is so great about archaeology -- there is something for everyone!

So continue to be safe out there and, as always, let's do all that we can to preserve and promote the archaeology of Mississippi!

*Bradley Carlock*

### Recent Research at Fort Rosalle, Natchez National Historical Park

The National Park Service's Southeast Archeological Center (SEAC) conducted a two week project at the Fort Rosalie unit of Natchez National Historical Park (NATC). The project objective was to ascertain the presence of a possible cemetery. In 2008, a historic burial was found during an archeological investigation of the earthen historic fort and a second historic burial was discovered in 2011 during a soil profile study. Since then, SEAC has conducted a series of geophysical surveys consisting of ground penetrating radar (GPR), resistivity, and conductivity which have identified numerous subsurface features, including possible burials. In May, a team of SEAC archeologists and osteologists conducted excavations of potential burial-like anom-



*Kosiuko Quartzite hammerstone collected at the Tallahatta Quartzite quarry 22Ne579, with battered outcrop from mining activity.*



*Thick deposit of Tallahatta Quartzite mine tailings at quarry 22Ne579.*



*Mine tailings of Hattiesburg Quartzite and fragment of Sioux Quartzite hammerstone (lower center) from the quarry site 22Fr1431.*

alies resulting in the identification of additional burials. This verified the presence of a nineteenth century cemetery unassociated with the fort's military occupation. Burials were interred in hexagonal coffins constructed with cut nails orientated east to west in supine positions (i.e. laying on their backs stretched out). It is hypothesized that this cemetery represents a potter's field (e.g., the unclaimed, unknown, and very poor) for the community of Natchez. In addition to the information gleaned from the burials themselves, research has unearthed historic support for this hypothesis as well. In 1820, John James Audubon observed that the ditch at the fort

was being utilized for the burial of slaves, and just prior to that in 1818 a landslide had destroyed the town's pauper's cemetery. Therefore, the burials witnessed by Audubon, which were contemporary with the Natchez City Cemetery established in 1822, was the start of a new cemetery for slaves and paupers, and anyone else not welcome or able to afford internment in the City Cemetery.

*Oscar Rothrock  
Southeast Archaeological Center  
National Park Service*

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## My First Six Months at the Archaeological Conservancy

I began working as the Southeast Field Representative for The Archaeological Conservancy in January 2019. In that time, I have assisted with the acquisition of five sites: The Evelyn Mound near Darien, GA, the Filhiol Mound near Monroe, LA on the Louisiana Mound trail, the Bains Gap site along Choccolocco Creek near Anniston, AL, Fort St. Pierre north of Vicksburg, MS, and a bit more of Mound 4 at the Troyville site in Jonesville, LA. And as always, we are actively working on many more sites and projects across the south-east.

I have had the opportunity to travel across most of the eight states that make up the Conservancy's southeast region and have had the pleasure to meet many amazing landowners, surveyors, archaeologists, Conservancy supporters, and site stewards. I've also visited amazing sites, excavations, museums, and historic homes. I'm learning everything that goes into the acquisition, preservation, and protection of archaeological sites. And I am really looking forward to my first demolition projects this winter.

Recent happenings in Mississippi include the Prospect Hill Spring Open House and the Fort St. Pierre acquisition. In April, Jessica Crawford, the Conservancy's Southeast Regional Director, organized an open house for one of our sites called Prospect Hill near Port Gibson, MS. We had a great turnout! Progress on the preservation of Prospect Hill is moving along, slowly but surely. It has definitely come a long way thanks to all of its many supporters. In June, the Fort St. Pierre site located north of Vicksburg, MS was donated to the Conservancy. The fort was built by the French in 1719 and occupied for only 11 years before it was attacked by local Native American groups. It was then later used as a Civil War encampment between 1862-1863. Fort St. Pierre recently received National Historic Landmark status and celebrated its tercentennial thanks in large part to the Fort St. Pierre Tercentenary Planning Commission.

I have written several articles for *American Archaeology*, the Conservancy's magazine, on sites that we have acquired. If you are interested in receiving your own copy of this amazing and informative award-winning magazine, there are several options for Conservancy membership that you can check out on our website at [www.archaeologicalconservancy.org](http://www.archaeologicalconservancy.org). While you're there, check out the rest of the website. It's great, too! You can also find us on Facebook, Instagram, and Twitter.

Nikki Mattson

## 2019 Archaeology Expo Update

This year's Archaeology Expo is planned for October 5th at the Batesville Mounds Park. I have met with the City of Batesville and reserved meeting space at the local library. In conjunction with the activities being planned at the park, there will be presentations from 12 noon - 5 pm at the Batesville Public Library.

There are still many plans to be made so if you or your orga-

nization would like to contribute to the program please contact me at [fieldrepse@gmail.com](mailto:fieldrepse@gmail.com). There are many ways in which you can contribute, which include setting up a table at the Expo that represents your organization, presenting any sort of archaeological activity or demonstration of ancient skills (e.g., pottery making, flintknapping, etc.), donating your time or money to support the program, or donating items for swag bags. I am always open to your advice or suggestions so feel free to share those with me at the email above.

Nikki Mattson

## SEAC is Coming to Jackson

Because they are on a meeting-organizing roll, Jay Johnson, Maureen Meyers, and Tony Boudreaux are continuing the fun and organizing the annual Southeastern Archaeological Conference in Jackson, November 6-9. We encourage archaeologists in Mississippi to consider organizing symposia and giving papers specific to the archaeology of the state. Online meeting registration is now open until October 28, and the registration deadline for papers and posters is August 31.

The Thursday night reception will be in the atrium of the nationally acclaimed Mississippi Civil Rights Museum and Museum of Mississippi History, where in addition to food and drink, attendees will be free to explore museum exhibits. Friday night's dance will feature The Pool. In addition, on Saturday there will be two tour choices: a Blues Tour with Scott Barretta, which will include lunch. Scott is host of the Highway 61 radio show and is a writer and researcher for the Mississippi Blues Trail. The second option will be a Delta Mounds Tour with Sam Brookes who will be reprising the tour led by Stephen Williams when SEAC last met in Jackson in 1991, and will include a visit to Lake George (as well as lunch). Although the choice is hard, we urge you to sign up for the meeting and one of the tours.

We welcome volunteers to assist with the meeting (who will receive a 50% discount at registration); if interested, please contact Maureen Meyers at [memeyer1@olemiss.edu](mailto:memeyer1@olemiss.edu). As a reminder, tribal member registration is free. Vendors interested in presenting their books, products or information in the book room can also contact Maureen at that email. Registration questions can be directed to Tony Boudreaux at [tboud@olemiss.edu](mailto:tboud@olemiss.edu), and most other queries can be sent to Jay at [sajay@olemiss.edu](mailto:sajay@olemiss.edu). Details about the meeting, including links for registration, can be found here: <https://www.southeasternarchaeology.org/annual-meeting/details/>.

## Activities of the Madison Chapter

The Madison Area Chapter of MAA continues to offer excellent opportunities for learning about Mississippi archaeology. Some of the latest topics discussed at the Madison meetings include the following:

In February George Phillips, paleontology curator at the Mississippi Museum of Natural Science, delivered an informative presentation on some of the more interesting paleon-

tological finds from around the state.

Jessica Crawford, the Archaeological Conservancy's Southeast Regional Director, presented, "The Southeast and Beyond", at the March meeting. Jessica's presentation was an informative tour of many of the Conservancy's outstanding southeastern sites and a description of the work done by the Conservancy to preserve these sites for future research.

Benny Roberts, member of the Madison Chapter, discussed his on-going excavations at an Early Woodland lithic workshop site located in Copiah County at the April meeting.

In May, Dr. Frederick Briuer, chair of the Fort St. Pierre Tercentennial Commission and retired archeologist with the US Corp of Engineers in Vicksburg, presented on the history of Fort St. Pierre, the past archeological research completed at the fort, as well as the plans to preserve and protect the fort. The Fort St. Pierre site in Warren county contains the remains of a French colonial fort constructed in 1719 and occupied until 1729 when it was destroyed by the Yazoo Indians. Dr. Briuer highlighted some of the archeological research conducted at Fort St. Pierre, including photos of an original map and several artifacts found during excavations there. He also discussed their on-going efforts to conduct additional archaeological projects at the fort and to preserve the site.

In July, Sam Brookes, who formerly served as archaeologist with the National Forests in Mississippi, as well as MDAH, presented, "Middle Archaic Effigy Beads: The Horned Owl Motif." His presentation discussed the horned owl as a recurring motif found on some of the Middle Archaic effigy beads and how this motif may relate to Middle Archaic religion.

Dr. Brad Lieb, archaeologist and much appreciated member of the Madison Chapter, recently discussed many of the images found in Indian artworks and their symbolism through time.

Several members also attended lectures offered by the Grand Village of the Natchez Indians and the Southern Cultural Heritage Center.

In March several members attended Anna Graham's presentation, "Natchez Cuisine: An Exploration of Past Food Use by Native Communities in the Natchez Bluffs" at the Grand Village of the Natchez Indians in Natchez. Anna, who is pursuing a PhD in anthropology at UNC at Chapel Hill, discussed what we know about foodways of the Natchez Bluffs groups and proposed the new idea that Natchez Bluffs groups had their own sub-regional cuisine.

In June several members enjoyed learning from Dr. Megan Kassabaum about the latest activities of the Smith Creek Archaeological Project. Kassabaum delighted attendees at the Grand Village of the Natchez Indians with her presentation, "News from Smith Creek: Exploring the Early Woodland Occupation." Meg gave an overview of recent field work at the Smith Creek and Lessley Mounds in Wilkinson County and explained the importance of the recent exposure of an Early Woodland occupation to understanding this early period in the Natchez Bluffs.

The Lecture Series of the Southern Cultural Heritage Center

in Vicksburg provided several lectures on Fort St. Pierre that were attended by several members over the past months. Members enjoyed lectures by the following: Dr. Ian Brown on his 1973-1975 investigations at Fort St. Pierre, Dr. Lisa Marie Malischke on her dissertation on the fort, Terry Winschel on Civil War fortifications at the fort, and James Barnett on the Indian tribes involved in the Fort St. Pierre story.

In May, Bo Pitts and Benny Roberts, along with some archaeologists and geologists, joined Dr. Frederick Briuer, at Fort St. Pierre to walk over the site and discuss work plans needed for the site.

The Madison Chapter meets the first Tuesday of every month, except December. We are averaging 28-30 members per meeting. We would greatly appreciate anyone who would like to give a presentation at one of our meetings to contact me at [pittsrob@yahoo.com](mailto:pittsrob@yahoo.com).

*Bo Pitts and Gena Roberts  
MAA Madison Chapter*

### **MDAH Archaeology Collections**

The archaeological collections staff at the Mississippi Department of Archives and History works to share Mississippi's prehistory by providing research collections for use by the public. Looking forward, our collections will be reorganized in the 2 Museums complex to provide a more effective research tool for Mississippians, professional and avocational alike.

On June 28, MDAH received a large collection of artifacts from the De Soto County Historical Museum in Hernando. This new collection includes multiple sites from Northwest Mississippi, and will be made available to the public once it is cataloged. Staff are working diligently to compile a summary of this collection within six months time. If you are interested in researching or donating to the stateowned collections, please contact me at [eclark@mdah.ms.gov](mailto:eclark@mdah.ms.gov).

*Emily L. Clark  
Archaeological Collections Manager  
Mississippi Department of Archives & History*

### **South Central Historical Archaeology Conference**

The 2019 annual meeting of the South Central Historical Archaeology Conference (SCHAC) will be September 13-15 at Camp Shelby, Mississippi. The actual meeting will take place in the Grand Gallery of the Mississippi Armed Forces Museum. The Grand Gallery is equipped with a computer, projector, and screen for paper presentations.

If you are interested in presenting a paper, please submit an abstract to Sara Hahn at [shahn@coastalenv.com](mailto:shahn@coastalenv.com). The deadline for submitting abstracts is August 16. Check the South Central Historical Archaeology Conference - SHACH Facebook page for further details and updates.

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## Mississippi Archaeologist Wins Award

The Department of Defense announced its winners for the 2019 Secretary of Defense Environmental Awards. Rita D. McCarty, Camp Shelby cultural resources manager, was selected as the winner for the Cultural Resources Management category.

Rita has worked to establish an excellent curation facility at Camp Shelby, which allows full public access to all holdings. The Camp Shelby Cultural Resources Department can now undertake all curation in house, which will mean considerable financial savings for the National Guard each year.

"Rita has taken the Mississippi Army National Guard Cultural Resources program to the next level and has far exceeded the expectations of what could be accomplished. She has focused a national spotlight on her program. This is true, not only at Camp Shelby, but throughout the state," said Lt. Col. Henry Palmer, Mississippi National Guard Environmental Program Manager.

"The artifacts we find have to be curated per federal regulation. At one time, we contracted with the University of Southern Mississippi to handle the curation process," said McCarty.

"As more projects were completed we ended up with over 100 boxes of archeological material that needed to be curated."

Ms. Ellen Lord, the Under Secretary of Defense for Acquisition and Sustainment, spoke on the importance of maintaining these resources. "Strong environmental programs increase training access, improve mission readiness, and provide the capabilities required to prevail in conflict and preserve peace, all of which support DOD's lines of effort to accomplish National Defense Strategy objectives."

The Cultural Resources Program ensures that the history of the National Guard and the pre-history can be studied for future generations. This gives school groups the chance to see actual artifacts that were found here at Camp Shelby.

"This is our way of being able to give back to the public, by sharing this with the public," said McCarty.

"Her work keeps the command in compliance with the governing laws and regulations. Therefore, command can focus on the mission of training Soldiers," said Palmer.

Recipients are chosen based on exceptional environmental achievements and innovative, cost-effective environmental practices. A diverse panel of 58 judges from federal and state agencies, academia and the private sector evaluated nominations from the DoD components to help determine the winners.

## University News

### University of Mississippi

#### *Mid-South Meetings*

Along with organizing the SEAC conference in Jackson in November, Jay Johnson and Tony Boudreaux, joined with

Jessica Crawford of the Archaeological Conservancy to organize the Mid-South Archaeology Meetings in Clarksdale on July 27 and 28th. The topic of the conference was the archaeology of the Lower Mississippi Valley.

#### *Other News*

The department's Davies collections were featured in a recent issue of *Delta Magazine*. The article, by Andrew Ross, details the history of Julius Davies and specifically details how he amassed his collection over many years and ultimately donated it to the university thanks to Calvin Brown.

Members of the department presented papers at the Society for American Archaeology meetings in April. Tony Boudreaux, with co-authors Brad Lieb and Stephen Harris, presented "Native Communities after Contact in the Blackland Prairie of Northeast Mississippi." Maureen Meyers presented "Shells, Drills, and Lithic Tools: Indirect Evidence of Textile Production at a Mississippian Frontier" in a session sponsored by the SAA Perishable Fibers Interest Group. Carolyn Freiwald was a co-author on a poster about Isotopic Analysis and Social Identities at the Ucanal Site in Guatemala; a presenter in a Maya Lowlands symposium entitled "Crossing Borders: What Isotope Geochemistry Reveals about Migration Among the Maya"; a co-author on a second paper, and a participant in a forum on applications in archaeology. Robbie Ethridge was a discussant for a symposium honoring Ann Ramenofsky and presented a paper (with Charles Cobb) entitled "Chicasa and Soto: Toward a Continuum of Disentanglement."

#### *Fieldwork*

Tony Boudreaux continued excavations at the Stark Farm site in May and June, in conjunction with the Chickasaw Nation and the University of Florida, continuing testing at this Late Mississippian and Early Contact site. Second-year graduate students Dakota Street and Wilson Utley assisted in this work. In July, CAR began work at the Fatherland site in Natchez, funded by the National Park Service through an American Battlefield Protection Program grant awarded to CAR in collaboration with the Grand Village of the Natchez Indians, to locate, identify and preserve features related to the 1730 capture of the Grand Village by the French, which resulted in the dispersal of the Natchez people from their ancestral homeland.

Maureen Meyers oversaw field school excavations in Lee County, Virginia at the Ely Mound, a 13th century site last excavated in 1887 by the Peabody Museum of Harvard. Seven students and a few volunteers dug over 300 shovel tests as well as two blocks in the village and one test unit on the side of the mound and identified the remains of two houses and evidence of multiple building stages in the mound. The site, owned by the Archaeological Conservancy, was one of the first Mississippian sites in the state and continuing research will better determine its size and occupation period, as well as its relations to the nearby Carter Robinson mound.

Carolyn Freiwald is continuing research this summer on offerings in the Seven Temples group at the Maya site of Tikal in Guatemala. Graduate student Jacob Harris began his mas-

ter's research of a Maya bone toolmaking deposit from the Ucanal site. Graduate student Rachel Harris spent two months supervising archaeological excavations in northern Belize with her University of Texas at Tyler alma mater and will return to work on her MA research on ancient Maya migration in August.

### University of Southern Mississippi

#### *Mississippi Chapter of AGS*

The Association of Gravestone Studies is an organization for those interested in cemetery studies from a variety of perspectives, including historical, artistic, and of course anthropological. State chapters currently exist in Louisiana and Alabama, and we are seeking to determine if there would be sufficient interest to establish one for Mississippi. If you would consider becoming a member or know others who might, or just wish further information about AGS, please contact Marie Danforth at USM (m.danforth@usm.edu).

#### *Retirements and New Hires*

Ed Jackson has retired after 32 years on the faculty at USM. Ed has worked at a variety of sites in Mississippi, most notably at Winterville. One of his last projects with the university is writing a Phase II report on a Middle Woodland site at Camp Shelby. He will be missed by his colleagues and students alike.

Replacing Ed on the faculty will be Daniel LaDu, who starts at USM in August. He received his PhD from the University of Alabama in 2016. Daniel specializes in complex societies of the Lower Mississippi Valley, but has a variety of research interests, including ceramic analysis, historic cemeteries and gravestone studies, interaction spheres, and migration and diffusion. He has also co-authored *Second Creek Archaeology: A Glimpse into Mississippi's Past* with Ian Brown, which appeared earlier this year.

#### *USM Alumni News*

Several USM grads have been hired by the National Guard over the past few years. Nic Glass (MA, '17) is Cultural Resources Specialist (Archaeologist) for the Alabama National Guard. Brian Flynt (MA, '19) holds the same position for the Mississippi National Guard, and Jordan Wilson (MA, exp. '20) is the Cultural Resources Manager for the Louisiana National Guard.

#### *Degrees Received*

Two students at USM recently completed their master's degrees on archaeological or bioarchaeological topics. Graduating in Spring 2019, Myra Miller's thesis looked at testing a model to diagnose pellagra in historic populations, examining known pellagrins in the Hamann-Todd Collection in Cleveland. Brian Flynt conducted excavations at a backwoods plantation site in Jefferson Davis County dating to the antebellum period, using refuse disposal patterning to discern site structure. He finished in Summer 2019.

#### *Current Program Research*

USM faculty and students have been involved with several cemetery projects in south Mississippi over the past several months. In conjunction with the City of Hattiesburg, they

have investigated the Eighth Cemetery, which contains family members of the first mayor of Hattiesburg, using GPR and probing to recover buried gravestones and identify abandoned graves. Work has also continued at the John Ford Cemetery in Sandy Hook in southern Marion County to find the grave of the early state politician, which has included ground truthing, GPR analysis, and DNA testing. This spring they had the opportunity to analyze remains as well as artifacts in two separate mausoleums dating to the mid-1800s undergoing renovation in the Old Biloxi Cemetery with the goal of helping to identify all who had been placed within. Lastly, also in cooperation with the city, they are looking at Mt Olive Cemetery, the first African-American cemetery in Hattiesburg. In addition to trying to map the cemetery as well as locate lost graves, students and faculty are conducting interviews with the descendant community.

#### *Current Graduate Student Research*

Dana Hauffe is working on her thesis research which examines botanical remains recovered at Winterville to generate data related to the food ways of the prehistoric inhabitants, as well as delve into the ceremonial and medicinal practices taking place.

For his thesis project, J. T. Lewis will look at using lithic analysis to determine elements of the socio-political organization of the Poverty Point site.

Andrew Patterson is working on ceramics at the Woodland/Mississippian village site of Ebert Canebrake in eastern Alabama. His initial research has possibly shown two distinct pottery traditions that seemed to have been simultaneously in use there. He also has a side project involving residue analysis of ceramics from Winterville to analyze what was held within the vessel when in use.

Jordan Wilson is looking at faunal remains from a feature at Arcola Mounds in Washington County for his thesis research.

Sydnie Bianchi is working to assess health among children at the colonial Maya site of Tipu in comparison to their counterparts at Copán during the Classic period using the scoring model of *The Backbone of Health* (Steckel and Rose, 1999).

Hadley Fuller is currently completing her thesis looking at musculoskeletal markers in adults from two mounds at Moundville to reconstruct activity patterns, especially as they might reveal occupational specializations by kin groups.

Carson Rouse's thesis research involves looking at patterns of intra- and inter-observer error in scoring porotic hyperostosis (anemia) on the cranium using models generated by 3D scanning.

Kristi Carnahan has been looking at revision of statistical models of craniometric observations to assess patterns of admixture within individuals and populations.

Kaitlin Harstine is using DEXA scans of athletes to assess the reliability of bone mineral density in estimating body mass.

Amy Hair is examining biodistance patterns between the colonial Maya populations at Tipu and Lamanai using cranial traits from photogrammetry as well as discrete trait expression. Last spring, Amy also was a member of a panel pre-

sentation on photogrammetry at the SAAs in Albuquerque.

Joanna Klein is investigating patterns of activity as reflected by proximal femoral morphology in two prehistoric populations, including a Mississippian group from Illinois.

Miranda Hahn is using isotope analysis of tooth enamel and rib to explore how dietary changes might reveal information concerning migrants at the Tipu site.

Casey LeJeune is looking at differences in femoral cross-sectional shape in the Tipu population to explore differences in activity pattern stresses.

Incoming Graduate Students in Archaeology and Bioarchaeology:

Maria Biggs (Middle Tennessee State)

Sarah Coffey (West Alabama)

Peter Mercier (Michigan State)

### 2018 Treasurer's Report

Shown in the table below are the opening and closing balances for the MAA checking and PayPal accounts in 2018:

Date	Checking	PayPal	Total
1/1/18	22,529.97	35.28	22,565.25
12/31/18	18,427.88	2,340.21	20,768.09
		<b>Total:</b>	<b>-1,797.16</b>

Total income from all sources (Annual meeting, memberships, & interest) in 2018 was \$5,875.93. Total disbursements in 2018 were \$7,673.09. The disbursements for 2018 are shown in the following table:

Category	Amount
Annual Meeting Expense	4,166.93
Archaeology Expo Expenses	1,591.49
Website	180.49
Publication Distribution	517.85
Miscellaneous Items	224.33
<b>Total:</b>	<b>7,673.09</b>

#### Items Included in the Miscellaneous Expenses:

Projector for Madison Chapter	\$374.49
Post Office Box Rental	\$52.00
Madison Chapter speaker reimbursement	\$50.00
Plastic storage boxes for artifacts	\$41.36

(The storage boxes are used for artifacts displayed at events e.g. Archaeology Day, Gem & Mineral Show, Fossil Road Show, etc.)

#### Current Balances:

As of 6/30/2019 the checking and PayPal accounts totaled \$20,718.50

Benny Roberts  
MAA Treasurer

### 2019 MAA Officers

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\*For information about contributing to the MAA newsletter please contact Jeffrey Alvey.