





# from the director

It is with some sadness that I announce that this is the last annual report that I will prepare. After twenty-nine years as Director and forty-four years here at the University of Tennessee, Knoxville, I will be retiring July 1, 2019. A local search committee led by Dean of University Libraries, Steve Smith is proceeding with the search as I write this. I am proud to have steered the museum to its current prominence in the university and the community; it has been a fun trip and I will miss the multiple experiences the position offers. Perhaps a fitting conclusion, in May 2018, I was awarded the 2018 Extraordinary Service to the University award at the chancellor's banquet. I am indeed honored and appreciative.

The past year saw the installation of exhibits on Northwest Coast indigenous art, consumer culture in the Gilded Age, and the history of mind-altering drugs—three interesting and diverse special exhibitions that reflect our broad educational mission. That each of these exhibitions was generated in house reflects the talent and dedication of the museum staff.

A close look at the annual report will reveal a year filled with dynamic educational programs for pre-K through college, departmental collaborations, lectures, and research activities in archaeology, malacology, and paleoethnobotany. We are especially proud of our outreach to the local Lonsdale community; our new *iVamos al Museo!* program offers shared learning experiences for families in Spanish and promotes the museum as an accessible and welcoming space.

Kudos to Stacy Palado for orchestrating two successful special fund raising events—“All That Glitters, Gilded Age Cocktail Party,” and “Princess Diana: An Intimate Portrait Gala” at the headquarters of Jewelry Television. Private support is essential to the museum covering student assistants, several staff, and most operating expenses. I thank our members and sponsors for their generous contributions and I look forward to working with all of you in my last year as director.



Jefferson Chapman, Director

On the cover:

**Prometheus Bound and the Oceanids**, c. 1880-1900, Ivory. Bequest of Frederick T. Bonham, 1958.5.112.

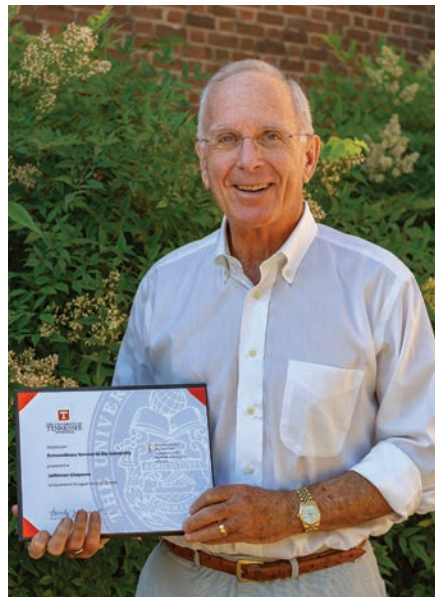
*Fish Forks and Fine Furnishings: Consumer Culture in the Gilded Age*

**Octopus Mask**, late 1900s, Richard Hunt (Kwakwaka'wakw, 1951 -), Wood, cedar bark, paint, Anonymous lender.

*Northwest Coast Art: A Community of Tradition*

**Advertisement for Coca Cola**, 1890s, Courtesy Library of Congress, LC-DIG-pga-04657.

*Pick Your Poison: Intoxicating Pleasures and Medical Prescriptions*



## vision

The McClung Museum of Natural History and Culture will be one of the top university museums in the country.

## mission

The McClung Museum of Natural History and Culture complements and embraces the mission of the University of Tennessee, Knoxville.

The McClung Museum of Natural History and Culture seeks to advance understanding and appreciation of the earth and its natural wonders, its peoples and societies, their cultural and scientific achievements, and the boundless diversity of the human experience. The museum is committed to excellence in teaching, scholarship, community service, and professional practice.

## attendance

The Museum continues to serve visitors from Knoxville and nearby communities, tourists, and university students and faculty. During each semester, UT students attend classes in the museum auditorium two or three times each week. During Fiscal Year 2018, there were 2,957 students enrolled in classes that met either two or three times a week at the museum. This translates to a high per capita student building usage—roughly 235,000 visits. These students are exposed to exhibits while waiting for classes and most look around the museum several times a semester. K-12 and university students engaged in museum programs are detailed in the Education section of the annual report.

The visitor count at the museum, including non-university school groups, and excluding students attending classes in the museum, totaled 44,661. Based on the guest register (signed by less than 4 percent of the visitors), museum visitors came from 50 states, DC, Puerto Rico, and 23 foreign countries. As expected, the majority are from Knoxville and surrounding counties and 14 foreign countries. As expected, the majority are from Knoxville and surrounding counties.

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## Special Exhibitions

*Fish Forks and Fine Furnishings: Consumer Culture in the Gilded Age.* May 26–August 27, 2017. Presented by Home Federal Bank, the Henley and Peggy Tate Museum Fund, Clarence Brown Theatre, City of Knoxville, Knox County, Arts and Heritage Fund. Curated by Catherine Shteynberg and curatorial assistant, Melinda Narro.

*Northwest Coast Art: A Community of Tradition.* September 8, 2017–March 4, 2018. Presented by First Tennessee Foundation, Ready for the World, Larry and Linda Raulston, Sherry Kirkland Rayson, Aramark, City of Knoxville, Knox County, Arts and Heritage Fund. Curated by Professor Emeritus, Department of Anthropology, Gerald Schroedl. Exhibit in memory of Michael H. Logan.



Dr. Gerald Schroedl, Curator of *Northwest Coast Art*, filming gallery tour. Video available at [tiny.utk.edu/nwcoastvideo](http://tiny.utk.edu/nwcoastvideo).

*Pick Your Poison: Intoxicating Pleasures and Medical Prescriptions.* March 23–August 19, 2018. Presented by Roswitha Haas and the late Arthur Haas, Professors Helen Baghdoyan and Ralph Lydic, City of Knoxville, Knox County, Arts and Heritage Fund. Co-curated by Catherine Shteynberg with content provided by the US National Library of Medicine and Manon Perry, University of Amsterdam.



Moonshine still in *Pick Your Poison*, Gift of Archie Weaver, 1968.8.1-8.



Gallery scene, *Fish Forks and Fine Furnishings*.

*Echinoderms and the Tree of Life.* Ongoing. Graduate research exhibit by Jen Bauer, Ryan Roney, and Sarah Sheffield, Department of Earth and Planetary Sciences.

*Ancient Dogs of West Tennessee.* Ongoing. Graduate research exhibit by Meagan E. Dennison, Department of Anthropology.

*Botanical Illustrations of Besler, Catesby, Blackwell, and Redout .* Through April 27, 2018. Print exhibition case. Curated by Jeff Chapman.

*Prints That Kill: Selections from the Museum's Natural History Prints Collection.* Ongoing. Curated by Catherine Shtynberg. Print exhibition case.

*Life on the Roman Frontier.* Ongoing case exhibit. Curated by Robert Darby, Department of Art History.

*Feminae Principes: A First Lady of the Roman Empire.* Ongoing. Case exhibit curated by PhD candidate Rachel Vykukal.



**Rattlesnake**, 1736, Mark Catesby, London, Hand-colored copper plate engraving Plate T41, *Natural History of Carolina, Florida, and the Bahama Islands*. Gift of Jeffrey M. Siegal and Bruce Lisman, 2004.5.2. In *Prints That Kill*

## Long-Term Exhibitions

*Ancient Egypt: The Eternal Voice*

*Archaeology and the Native Peoples of Tennessee*

*Geology and the Fossil History of Tennessee*

*The Decorative Experience*

*Human Origins: Searching for Our Fossil Ancestors*

*The Battle of Fort Sanders, November 29, 1863*

*Treasures Past and Present: Freshwater Mussels*

## Exhibition-Related Lectures and Special Events

“Say Cheese.” Stroller Tour, July 10

All That Glitters Camp, July 11–13

Fossil Camp, July 17–21



Cherokee artist Freeman Owle, demonstrating stone carving.

“Knoxville in the Gilded Age.” Lost and Found Luncheon, Knox Heritage, July 21.

First Friday Open House. August 4.

“Once Upon a Time...” Stroller Tour, August 14.

“All That Glitters,” Gilded Age Cocktail Party Fundraising Event, August 17.

“Storytelling Extravaganza.” Family Fun Day, August 26.

“Native American Rhetoric.” Lecture by Lisa King, Assistant Professor, UT Department of English. September 12.

“Northwest Coast Art.” Family Fun Day, September 16.

“Toddlers and Totems.” Stroller Tour, September 18.

Teacher Workshop: Civil War and Mapping Technologies, September 26.

“Can You Dig It? Archaeology and Fossil Day.” October 15.

“Chomp, Chomp.” Stroller Tour, October 23.

Homecoming Celebration at McClung Museum. November 3.

“Celebrate Native American Heritage.” Family Fun Day. November 11.

“Harvest Time.” Stroller Tour, November 13.



Geology bus tour participants.

“A Global Community.” Family Fun Day, December 2.

Geology Bus Tour. December 2.

“Row Your Boat.” Stroller Tour, December 11.

Member Appreciation Holiday Shopping Event. December 12.

“Curtain Call.” Family Fun Day, January 20.

“The Wild West.” Stroller Tour, January 22.

“Darwin Day.” Family Fun Day, February 10.

“Be My Valentine.” Stroller Tour, February 12.

An Evening with Lark Mason: Planned Giving Event, March 5.

“Sculpting Stories.” Family Fun Day, March 10.

“Tick Tock.” Stroller Tour, March 19.

“Science Fair.” Family Fun Day, April 7.

“The Rise of Modern Drug Development.” Lecture by Monica Black, Associate Professor, UT Department of History. April 12.

“Ice Age.” Stroller Tour, April 16.

“Talk and Town Hall: Pain and Addiction in East Tennessee–A History and Plan for the Opioid Crisis.” Lecture by Stephanie Vanterpool, MD, UT Medical Center, April 16.

“Princess Diana: An Intimate Portrait.” Fundraising Event, May 5.

“May Flowers.” Stroller Tour, May 14.



Museum supporters gather at the McClung Museum's Princess Diana themed fundraiser hosted at Jewelry Television.



#### CONTRIBUTIONS TO THE McCLUNG MUSEUM

##### 2018 Annual Report Donor Roll

*The museum has made every effort to check the accuracy of this report. We sincerely regret any errors or omissions that may have escaped our scrutiny. Every contribution to the McClung Museum makes a difference and is greatly appreciated.*

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“Let’s Plant It!” Family Fun Day, May 19.

Jurassic Kids Summer Camp. June 5–7.

“Show Me Your Mussels.” Stroller Tour, June 11.

Dino Explorers Summer Camp. June 12–22.

“Egyptian Deities.” Family Fun Day, June 16.

Art Masters Summer Camp. June 19–22.

Fossil Summer Camp. June 25-29.

Lectures Co-Sponsored by the Museum and the East Tennessee Society of the Archaeological Institute of America

“Gender, Lithics, and Perishable Technology: Searching for Evidence of Split-Cane Technology in the Archaeological Record at the Mussel Beach Site (4oMI7o).” Lecture by Meagan King, University of Tennessee, September 26.

“Antioch the Great: An Elusive Metropolis?” Lecture by Andrea De Giorgi, Florida State University, October 19.

“Romans, Lombards, and Antiquarians at the Roman Villa of Vacone, Italy.” Lecture by Dylan Bloy, University of Tennessee, November 2.

“Scanning the Pharaohs: CT Imaging of the New Kingdom Royal Mummies.” Lecture by Sahar Saleem, Cairo University. Harry C. Rutledge Memorial Lecture, November 27.

“Cooking Up New Perspectives for Late Minoan IB Domestic Activities: An Experimental Approach to Understanding the Possibilities and Probabilities of Ancient Cooking Pot Use.” Lecture by Jerolyn Morrison, University of Leicester, January 25.

“The Shifting Role of ‘Motherhood’ among Late Prehistoric Communities in Tennessee.” Lecture by Michaelyn Harle, Tennessee Valley Authority, February 6.

“Reconstructing and Firing a Greek Kiln: A Project in Experimental Archaeology.” Lecture by Lisa C. Khan, George Mason University, March 8.

“Let’s be Frank(s)! The Merovingians as the Pioneers of Medieval Europe.” Lecture by Bailey Young, Eastern Illinois University, April 5.

Twenty-three prints. Gift of Mr. and Mrs. Michael Mouron, 2017.10.

Three prints by Pierre Joseph Redouté. Gift of Don A. Stevens, 2017.11.

Four antique product advertisements. Museum purchase, 2017.12.

Hand colored copper plate engraving by Mark Catesby. Museum purchase, 2018.11.



Left: Sandstone male statue, Mississippian period, AD 1300-1400. Gift of Mr. and Mrs. Frank G. Breunig, Jr., 2018.2.

Etching by Francisco de Goya. Museum purchase, 2018.3.1.

Hand colored engraving by Basil Besler. Museum purchase, 2018.4.1.

Eight hand colored engravings by Christopher Jacob Trew and one by Richard Holmes Laurie. Museum purchase, 2018.5.

Ceramic jar, Afghanistan. Gift of Evelyn Craig, 2018.6.



Left: Silk prayer rug, 19th century Tabriz, Iran. Gift of Persian Galleries, 2018.7.

Thirty three fragments of Hadrosaur bones. Transfer from the Department of Earth and Planetary Sciences, 2018.8.

Archaeological material and associated records from sites in Blount and Monroe counties, Tennessee; and Swain and Graham counties, North Carolina. Brookfield Renewable Energy Group, US Operations, 2017.13.

Sandstone Peacock Panel, Northern India (Mughal), 18th century. Ardath and Joel E. Rynning Acquisitions Fund, 2018.11.

Ceramic Calligraphic Tiles, Damascus, Syria, late 16th/early 17th century. Gift of the Siddiqi family and the Muslim community, 2018.14a,b.

Financial Summary

INCOME			
University of Tennessee	\$1,114,213	(60.2%)	
Unrestricted	253,075	(13.7%)	
Restricted	238,241	(12.9%)	
Endowment	163,403	(8.8%)	
Museum Store	32,921	(1.8%)	
Knox County	21,845	(1.2%)	
Deaccessions	12,890	(0.7%)	
Donation Box	7,381	(0.4%)	
City of Knoxville	5,500	(0.3%)	
Total	\$1,849,469		

**What Does Private, Non-University Money Support?**

- 90 percent of all exhibits
- K-12 and community programs (lectures, Family Fun Days, Stroller Tours, events)
- Acquisitions
- 5 staff members
- 12 student assistants
- 7-day-per-week guard service
- 75 percent of all operating expenses (except utilities, janitorial, and insurance)

EXPENSES			
Salaries	\$895,757	(49.6%)	
Benefits	291,269	(16.1%)	
Utilities	131,536	(7.3%)	
Acquisitions	121,635	(6.7%)	
Exhibits	46,929	(2.6%)	
Special events	46,334	(2.5%)	
Insurance	45,232	(2.5%)	
Guard service	37,974	(2.1%)	
Student fees	35,044	(1.9%)	
Maintenance	28,824	(1.6%)	
Custodial	28,800	(1.6%)	
Collections care	12,421	(0.7%)	
Media/printing	12,313	(0.7%)	
Stores for resale	11,797	(0.6%)	
Misc. operating	9,082	(0.5%)	
Security/Central Alarm	8,876	(0.5%)	
Computer services	8,741	(0.5%)	
Travel	6,586	(0.4%)	
Food services	6,981	(0.4%)	
Memberships	5,813	(0.3%)	
Telephone	4,860	(0.3%)	
Postage	4,637	(0.2%)	
Equipment	3,204	(0.2%)	

Total \$1,804,645

Note: Percentage totals will vary from 100 percent due to rounding.

Endowments

The market value of the museum’s 13 endowments as of June 30, 2018, was \$3,707,875 – an increase of 0.9 percent over last year.

Digital Stats

- 64,096 Unique visitors to the McClung Museum website (-14%)
- 4,181 Facebook Likes (+8%)
- 2,190 Twitter Followers (+3.25%)
- 1,133 Instagram Followers (+14%)
- 3,544 monthly e-newsletter subscribers (+25%)

Awards Received

Award of Excellence from the Tennessee Association of Museums in recognition of superlative achievement for the exhibition *Fish Forks & Fine Furnishings: Consumer Culture in the Gilded Age*.

American Automobile Association Gem Attraction.

Trip Advisor Certificate of Excellence; No. 10 of top things to do in Knoxville.



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# research

## ARTS AND CULTURE COLLECTIONS

The Arts and Culture Collections have undergone various large organization, rehousing, and research projects throughout the past fiscal year under the leadership of registrar, Adriane Tafoya, and curator, Catherine Shteynberg.

Tafoya spearheaded extensive organization projects and implemented various best practices in her first full fiscal year at the museum, including implementing new collection department filing systems, reconciling lapsed incoming and outgoing loans, and coordinating collections committee meetings.

The collections committee is an advisory committee whose members are appointed by the director, who support the museum's collections strategy, advise regarding acquisitions and deaccessions, and assist in the creation of collections policies and procedures. The committee is made up of museum staff and advisory board members, all of whom voted in favor of a deaccession of some of the museum's furniture collection, which occurred in February 2018 under the leadership of Tafoya. Income from the public auction of the furniture will be used for future acquisitions.

Tafoya and Shteynberg continue to work together to identify objects that are candidates for deaccession or conservation because of condition issues, and to work on rehousing fragile collections. The tremendous amount of space gained at the museum's offsite storage facility after recent deaccessions allowed Tafoya to conduct much-needed organizing, cleaning, and inventories at both off-site storage and at the museum.

Several of many important collections care projects facilitated by Tafoya and her interns and volunteers include a rehousing project of some of the museum's sensitive textiles, generously funded by Patty and Richard Mallicote; rehousing other sensitive collections, including hats, shoes, and photographs; and rehousing fine art paintings and furniture at the museum's offsite storage.

Tafoya also worked to monitor facility conditions and make recommendations for improvements at both facilities, including new lighting in collections areas and implementing



Patty and Richard Mallicote in the textile collection.

integrated pest management to prevent pest damage to collections at both facilities.

Tafoya has been working with Shteynberg to standardize and add important information to the museum's database, including tracking university course use of particular objects from the collection. This information will help guide future acquisition plans.

As reflected in the Education section of the annual report, Academic Programs had a banner year, serving a record number of students in the museum's Object Study Room to view objects from collections storage.



Lindsey Jo Gharavi (center) leads a discussion in the Object Study Room.

The museum also made many acquisitions for the Arts and Culture Collections in the past year. Of particular note were acquisitions made to help diversify the museum's holdings, especially in the area of Islamic art. Shteynberg was kept busy cataloguing and completing provenance research on these new acquisitions, many of which will be featured in her summer 2019 exhibition on recent acquisitions.



**Calligraphic Tiles**, late 16<sup>th</sup>/early 17<sup>th</sup> century Ceramic, enamel Damascus, Syria Gift of the Siddiqi family and the Muslim community, 2018.14a,b.

Curatorial interns Keneisha Mosley and Josh Leib helped with cataloguing research on a pending gift of Asante gold weights and the museum's existing Middle Eastern photography collection, respectively. A majority of Shteynberg's curatorial role, outside of ongoing collections research for the museum and for Academic Programs coursework, was spent on preparations and project management of the incredibly busy exhibition calendar, now scheduled through 2022, as well as curating her own exhibitions. Shteynberg will work with the exhibitions committee in the upcoming year to fill gaps in the exhibition calendar moving ahead, and to come up with an exhibition strategy that meshes with overall educational goals for the museum.

## ARCHAEOLOGY AND PALEOTHOBOTANY

Curators Timothy Baumann and Gary Crites continue to lead the archaeology and paleoethnobotany division, which contain the museum's s largest and most studied collections. The preservation and research access to these materials and their associated records could not be accomplished without the dedication of graduate assistants Mark Babin and Chris Lassen, lab assistant Erika Lyle, and ten lab volunteers.

Baumann and Crites have continued their research on the common bean (*Phaseolus*

*vulgaris*) to determine when, how, and why this domesticated plant was adopted into prehistoric Native American diet in the Southeast. Multiple avenues of research were used to address these questions, including the analysis and direct dating of archaeological specimens, the creation of an experimental garden, and the development of a new method to identify beans from their biochemical properties. The oldest directly dated beans in Tennessee are from the early-to-mid-14th century and likely arrived in trade and/or migration of people from the Lower Ohio River Valley in response to climate change from the Little Ice Age as well as an increase in socio-political conflict.

In support of this research, the paleoethnobotany collection was expanded with a new bean repository that consolidates all wild and domesticated specimens recovered from Tennessee archaeological sites. Then modern comparative samples of New World bean species will support current and future bean research.



Domesticated beans at UT Gardens on corn stalk trellis.

In addition, a new experimental garden was established at the UT Gardens with both wild and domesticated plants that prehistoric Native Americans collected or cultivated in Tennessee. This was done in collaboration with Kandi Hollenbach, Assistant Professor of



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# research

Anthropology, and included a very old variety of maize (*Zea mays ssp. Mays “Reventador”*), a small pumpkin variety (*Cucurbita pepo*), and multiple heirloom varieties of domesticated beans (*Phaseolus vulgaris*). One variety was the “Cherokee Trail of Tears” bean that oral tradition contends was carried by the Cherokee during their forced removal in 1838 and 1839 to Oklahoma. These three companion plants are commonly referred to as the “Three Sisters,” which were grown together in prehistoric garden plots so that the corn stalk served as the bean trellis and the pumpkin vines provided ground cover to reduce weed growth.



Small pumpkins from the experimental garden.

The recovery of beans from archaeological sites can be difficult because most are consumed and those that do survive were burnt by accident in a hearth or a house fire. If found, they are extremely fragile and are subject to inadvertent destruction during excavation. As such, the museum is attempting to find an alternate method to identify bean consumption using absorbed residue analysis with pottery. UT biochemist Shawn Campagna and Hector Castor Gonzalez are working with the curators to identify these unique biochemical bean markers at UT’s Biological and Small Molecule Mass Spectrometry Core (BSMMSC) facility. Archaeologist Nora Reber at the University of North Carolina at Wilmington (UNCW) will conduct the analysis to look for bean biomarkers at UNCW’s Pottery Residue Lab.

Research requests to access the archaeology collections and artifact identification inquiries from the public are frequent. The museum has been contacted by nearly forty scholars and students from academic institutions and government agencies in Alabama, Florida, Georgia, Illinois, Kentucky, Mississippi, New York, North Carolina, Ohio, Pennsylvania,



Hiwassee Island Red on Buff potsherds, c. AD 1200, Meigs County, TN.

Tennessee, Washington, and Wisconsin. Overall, research has resulted in more than thirty publications or presentations, the completion of two dissertations and one thesis, and at least nine current graduate dissertation/thesis projects.

Erika Lyle completed her master’s degree in anthropology at UT in August 2017. Her thesis “Hiwassee Island: The Research Value and Limitations of Legacy Collections” examines the scientific potential of WPA-era archaeological collections from the Hiwassee Island site (40MG31) in east Tennessee. She focused her assessment on the pottery assemblage by comparing the 1930s ceramic data (i.e., pottery types, forms, and sizes) with a 1990s excavation sample to determine differences caused by changing excavations methods. She also applied new testing methods of absorbed residue studies and portable X-ray fluorescence analysis (pXRF) of the 1930s ceramics to evaluate their research potential. Both were successful in extracting data about diet and clay sourcing.



Carbonized split cane matting fragment, c. 1450, TN.

Megan King completed her doctorate in anthropology from UT in August 2017. Her dissertation “Gender, Lithics, and Perishable Technology: Searching for Evidence of Split-Cane Technology in the Archaeological Record at the Mussel Beach Site (40MI70)” analyzed stone tool artifacts with both low and high-power microscopy to identify use-wear associated with the processing of plants, particularly river cane, to make objects from their fibers (e.g., baskets, mats). This study was necessary because very few of these plant-based artifacts survive in the archaeological record. King focused on rivercane processing and technology through the use of experimental archaeology and was able to link these tasks to female gender roles in the prehistoric past.

Jake Lulewicz received his doctorate in anthropology from the University of Georgia in May 2018. His dissertation “Network Histories of Southern Appalachia, AD 600–1600” examines the social networks of northwest Georgia and east Tennessee using a seriation study of more than 350,000 pottery artifacts and 300 radiocarbon dates (of which 68 are new) from seventy-seven different archaeological sites. This study included collections from thirty-eight Tennessee sites and 31 new radiocarbon dates from them. In his conclusions, he argues that there were two major cultural transitions in Southern Appalachia over a 1,000 year period in late prehistory. The first occurred at about AD 1150 with an intensification of political hierarchy and the second at about AD 1325 is represented by a collapse of socio-religions mound centers.



A new radiocarbon date of 1349 was obtained from deer bone that was recovered in the 1937 WPA excavations of this house floor at the Dallas site (40HA1) in Hamilton County, Tennessee.



Curator of Archaeology, Tim Baumann (left) discusses NAGPRA challenges with members of the Tennessee Valley Authority.

The biggest challenge for the museum’s archaeological collection has been and will continue to be with the Native America Graves Protection and Repatriation Act of 1990 (NAGPRA). The museum curates more than 6,000 human remains and thousands of funerary objects that are subject to this federal law. The majority of these burials were uncovered during reservoir projects by the Tennessee Valley Authority (TVA) or the US Army Corps of Engineers (USACE). NAGPRA claims were submitted by the Eastern Band of the Cherokee Indians (EBCI) for Cherokee remains from the Ocoee (40PK1), Tallasee (40BT8), Chota (40MR2), Toqua (40MR6), and Austin Springs (40WG140) sites. The EBCI have also claimed all culturally unidentified human remains and funerary objects from every East Tennessee county, which represents about 125 archaeological sites. The Chickasaw Nation has a pending NAGPRA claim for all sites from TVA’s Kentucky Lake project, which was conducted prior to WWII with WPA funds. The museum assisted the USACE Nashville District with repatriation to the EBCI of remains and objects from the Lake Barkley Project in Stewart County, Tennessee.

## MALACOLOGY

Curator Gerald Dinkins and assistant Kristin Irwin were busy in past fiscal year. Several new cabinets and metal trays were added to the laboratory with funds donated for this purpose by the Tennessee Wildlife Resources Agency. With the addition of these new cabinets and trays, the Paul W. Parmalee Malacological Collection was reorganized to accommodate growth. The collection was increased by adding 3,454 specimens in 1,125 lots from



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- Mr. Patrick Birmingham
- Mr. Randi Boeje
- Mr. Bobby E. Booker and Mrs. Suzy Garner Booker
- Mr. James S. Bryan
- Dr. Gordon M. Burghardt and Dr. Sandra Twardosz



Andrew Henderson (USFWS) excavates a quadrant sample in the Big South Fork while Rebecca Schapansky (NPS) records field data on mussel populations in the Big South Fork, Tennessee.

twenty-two states and four countries, bringing the number of cataloged specimens to 145,474 specimens in 16,264 lots. Mollusk material was donated to the collection from several state and federal agencies, the Carnegie Museum, surveys conducted by museum staff, and agency biologists from several surrounding states. Digitization of the museum’s collection of vertebrate fossils was completed by Ashley Slater, a graduate student in Environmental Sciences and museum volunteer.

Over the year, mussel surveys were conducted in the Barren River, the Big South Fork Cumberland River, the Obed River, and the Little Tennessee River in Tennessee. In addition, Dinkins assisted in the reintroduction of native species of mussels into Citico Creek, a tributary to the Little Tennessee River. The two-year survey by Dinkins, Irwin, and Steve Alstedt in the Barren River



Freshwater mussels Tennessee Pigtoe (left) and Tennessee Clubshell (right).



Curatorial assistant Kristin Irwin on the bank of a creek during a native mussel survey in the Barren River system.

watershed discovered two new populations of the Kentucky Creekshell (*Villosa ortmanni*), a species thought to be restricted to Kentucky. Dinkins with his wife, Barbara, completed a three-year inventory of land snails and slugs in Knox County, Tennessee, revealing that the County supports 151 species, 70 newly reported in the County and 15 newly reported in Tennessee.

Dinkins and Irwin were engaged in workshops and instruction for various UTK classes, for biologists with the US Fish and Wildlife Service, Tennessee Wildlife Resources Agency, and the National Park Service. Dinkins was awarded a two-year research grant by the US Fish and Wildlife Service to conduct a status survey for two species of mussels, Tennessee Pigtoe (*Pleuroaia barnesiana*) and Tennessee Clubshell (*Pleurobema oviforme*) being considered for the federal Endangered Species List. The grant will involve examining specimens in numerous mollusk collections including the National Museum of Natural History, Smithsonian Institution and conducting field surveys in streams and rivers historically occupied by both species.

The malacology lab bid a farewell to Kristin Irwin who began working in the collection as an undergraduate and finished her Master’s degree this spring which was based on research in the Harpeth and Duck Rivers in middle Tennessee and funded by Tennessee Wildlife Resources Agency and the US Fish and Wildlife Service. She has been employed by the malacological group at Tennessee Technological University.

# PUBLICATIONS, PAPERS, AND RESEARCH REPORTS

## MALACOLOGY

**Dinkins, Gerald R.**  
Survey for Ocmulgee Marstonia (*Marstonia agarhecta*) in Bluff Creek in the vicinity of State Route 11/U.S. 129. Report to Georgia Department of Transportation. February 2018

Survey and relocation of mussels and federally protected snails in streams in the vicinity of the CSX Transportation bridge over the Cahaba River, Shelby County, Alabama. Report to CSX Railroad and Amec Foster Wheeler. March 2018.

Assessment of fish community at selected stream reaches along the path of the Dalton Expansion Project, Georgia. Report to CH2M Hill, Inc. August 2017.

Survey for freshwater mussels in the Elk river in the vicinity of the anomaly in the Tennessee Natural Gas pipeline, Kanawha County, West Virginia. Report to Environment and Archaeology, LLC and Tennessee Gas Pipeline Company, LLC. September 2017.

Assessment of native mussels in horse trail crossings in Big South Fork Cumberland River at Station Camp Creek and Big Island, and in North White Oak Creek at Groom Branch. Report to National Park Service. January 2018.

Assessment of native mussels in North White Oak Creek in the vicinity of Laurel Fork and Obed River at Alley Ford. Report to National Park Service. March 2018.

Research activities associated with the malacological laboratory at the McClung Museum of Natural History and Culture, and an update on the status of the Paul Parmalee Malacological Collection. Presentation to the annual Alabama Mollusk Committee. February 2018.

**Dinkins, Gerald R. and J. Brian Alford**  
Survey for freshwater mussels in the Little Tennessee River and selected tributaries between Calderwood Dam and backwaters of Chilhowee Reservoir, Blount and Monroe Counties, Tennessee. Report to Brookfield Renewable Energy. February 2018.

**Dinkins, Barbara J. and Gerald R. Dinkins**  
An inventory of the land snails and slugs of (Gastropoda: Caenogastropoda and Pulmonata) of Knox County, Tennessee. *American Malacological Bulletin*, 36(1):1-22 (2018).

**Irwin, Kristin L.**  
Freshwater Mussels of the Harpeth River Drainage and the Upper and Middle Duck River Tributaries, Tennessee. Presentation to the annual Tennessee Rare Mussel Meeting. December 2017.

Freshwater Mussels of the Harpeth River Drainage and the Upper and Middle Duck River Tributaries, Tennessee. Presentation to the annual Tennessee Rare Mussel Meeting. January 2018.

Freshwater Mussels of the Harpeth River Drainage. Presentation to the Harpeth Conservancy. June 2018.

**Dinkins, Gerald R. and Kristin L. Irwin**  
Mollusk research at the McClung Museum of Natural History and Culture. Presentation to the annual Tennessee Rare Mussel Meeting. December 2017.

Status of the Paul Parmalee Malacological Collection. Presentation to the annual Tennessee Rare Mussel Meeting. December 2017.

Freshwater mussels of the Powell River—Ecology and Identification. Presentation to Lincoln Memorial Faculty and Students. March 2018.

**Dinkins, Gerald R., Kristin L. Irwin, and Steve A. Ahlstedt**  
Mussel survey of the Barren River system in Tennessee. Presentation to Carolina Area Biological Workshop, Hot Springs, North Carolina. March 2018.

**Dinkins, Gerald R., Kristin L. Irwin, and Don Hubbs**  
Tennessee Freshwater Mussels—Ecology and Identification. Workshop given at Tennessee Chapter of the American Fisheries Society, Knoxville, Tennessee. January 2018.

**ARCHAEOLOGY AND PALEOETHNOBTOANY**  
**Allen, Christian**  
Coalescent Cherokee Communities and Plant Subsistence at the Mialoquoo Site (40MR3), Monroe County, Tennessee. Paper presented at the 7th annual Cherokee Archaeology Symposium in Cherokee, North Carolina, September 7–8, 2017.

Archaeological Detection of Late Contact Cherokee Coalescent Communities and Investigating Subsistence Shifts in the Little Tennessee River Valley. Paper presented at the 74th annual meeting the Southeastern Archaeological Conference in Tulsa, Oklahoma, November 8–11, 2017.

**Babin, Mark**  
Social Networks and Social Space: New Approaches to Overhill Cherokee Communities through Glass Beads. Paper presented at the annual meeting of the Southern Anthropological Society in Chattanooga, Tennessee, April 20–21, 2018.

**Baumann, Timothy and Valerie Alitzer**  
Beans (*Phaseolus vulgaris*): An Indicator of Stress, Conflict, and Migration in Southeastern Mississippian Communities. Paper presented at the 74th annual meeting the Southeastern Archaeological Conference in Tulsa, Oklahoma, November 8–11, 2017.

**Baumann, Timothy, Gary Crites, Valerie Altizer, and Chris Lassen**  
Beans (*Phaseolus vulgaris*): An Indicator of Stress, Conflict, and Migration in Southeastern Mississippian Communities. Paper presented at the 30th annual meeting for Current Research in Tennessee Archaeology at the Montgomery State Park in Burns, Tennessee, January 26–27, 2018.

**Baumann, Timothy, Charles Faulkner, and Heather Woods**  
The Diet and Identity of Enslaved African Americans in the Upper South. Paper presented at the 83rd annual meeting of the Society for American Archaeology in Washington, DC, April 11–15, 2018.

**Baumann, Timothy, Donna McCarthy, and Erika Lyle**  
Final NAGPRA Inventory Report of Human Remains and Funerary Objects from the Allen Site (40SW47) in Stewart County, Tennessee. Department of Anthropology and the McClung Museum of Natural History and Culture, University of Tennessee, Knoxville. 2018.

**Baumann, Timothy, Donna McCarthy, Mark Babin, and Erika Lyle**  
Final NAGRPA Inventory Report of Human Remains and Funerary Objects from the Ocoee Site (40PK1) in Polk County, Tennessee. McClung Museum of Natural History and Culture, University of Tennessee, Knoxville. 2018.

**Lyle, Erika, Sierra Bow and Eleanor Reber**  
Hiwassee Island Pottery: Pilot Studies in Absorbed Residue and pXRF Analyses. Paper presented at the 74th annual meeting the Southeastern Archaeological Conference in Tulsa, Oklahoma, November 8–11, 2017.



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# education programs

## PREK–12

Attendance numbers for PreK-12 totaled 4,440 students for onsite tours. The attendance was comprised of a diverse group of public and private schools, afterschool programs, and Scout troops, as well as others youth clubs. Additionally, through our outreach lessons done at schools rather than the museum, we served 1,355 students in the Knoxville metro area. The Enhanced Homeschool Program (EHP), now in its third year, welcomed 104 students this past academic cycle. Lessons for the EHP included presentations on all of our permanent galleries and two temporary exhibitions.

In September 2017, the McClung collaborated with the East Tennessee Historical Society and the Tennessee Geographic Alliance to provide a K-12 teacher workshop on the Civil War in Knoxville. This professional development examined the war through its fortifications using artifacts, historical documents, and geospatial technologies. Instructors from Knox, Blount, Cocke, Campbell and Green counties joined the event.

## FAMILY PROGRAMS

Stroller Tours and Family Fun Days at the museum continue to engage the general public with innovative family programming. This year we welcomed over 3,000 visitors. We attribute these numbers to our increased collaborations with both on and off campus partners such as Clarence Brown Theater, Cherokee artists, Bridge Refugee Services, and UT's Center for Children's and Young Adult Literature.

The third year of expanded summer camps programs provide promising statistics. With registration at capacity (60 campers), 15 percent of attendees were regular participants in our stroller



Top above: Art Masters campers

Bottom: Stroller Tour attendee with craft project.

Below: Educator Leslie Jantz instructs attendees at *iVamos al Museo!* about Northwest Coast art.

tours, while 16 percent were return campers from the previous two seasons. Such repeat attendance suggests that our patrons are becoming more invested in the museum and its various offerings. Thanks to US Bank, we were able to offer scholarships for the first time in the history of our summer camps.

One of our most exciting additions to the education schedule is *iVamos al Museo!* (Let's go to the Museum!). The program offers free excursions to the McClung for Hispanic families from Lonsdale Elementary, a local school five miles from campus. Guests are invited to explore the collection through guided tours and activities in Spanish. This project aims to reach out to people who are less



Participants in *iVamos al Museo!*.

likely to visit the museum because of language and transportation barriers. Thanks to an initial grant from the Cornerstone Foundation we can subsidize the cost of educational materials, school buses, and additional staff. In its first operational year, 126 individuals registered for *iVamos al Museo!*. The education team plans to continue to serve Lonsdale Elementary for a second year before expanding to other schools with similar needs.



Above: Assistant Educator Callie Bennett shows a fossil to campers in Dino Explorers.

Below: David Frank, UT Department of Philosophy and Curator Cat Shteynberg speak about extinctions using the museum's taxidermied pigeon and an 18<sup>th</sup> century print by Mark Catesby.



## ACADEMIC PROGRAMS

Academic Programs served 3,171 students directly from twenty-four distinct units on campus, from Anthropology and English to Geology and Ecology and Evolutionary Biology. Besides UT, Academic Programs also served students from Pellissippi State Community College, Carson Newman University, and Maryville College.

Examples of this engagement include: introductory art classes drawing objects in our galleries; various First Year Studies students engaging with objects in our galleries and Object Study Room to inform writing projects and mock museum exhibitions; English and Public History courses investigating memorialization and representation in the museum space and placing students for practicums at the museum; a History class on Europe in the Age of Total War, in which the weekly lecture was based on viewing WWI and WWII objects from our collections; and an ongoing collaboration with the School of Nursing to use objects to help Nursing PhD students hone their observation and critical thinking skills.

Academic Outreach programming included various exhibition-related tours and lectures. The McClung Museum's Curator of Civil War History, Joan Markel continued ongoing work with the Knoxville Civil War Roundtable and UT Honors College to host Scribe-A-Thons in which UT students helped transcribe Civil War documents.

Academic Programs underwent a transition this year. Lindsey Gharavi stepped down from her role in February 2018, and the position was filled in July by Katy Malone. This shift did result in a small drop in engagement from March–August.





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## McCLUNG MUSEUM



**Peacock Panel, 18th century**  
Sandstone, Northern India (Mughal)  
Ardath and Joel E. Rynning Acquisitions Fund, 2018.11