



from the director

What an exciting and productive year. Attendance exceeded a record high of 63,000, surpassing last year's attendance by 24 percent. This was driven by the increasingly popular public monthly programs—family days and stroller tours—along with the construction of a sand mandala by the Tibetan monks from the Drepung Loseling Monastery and a Maya festival that engaged the local Maya immigrant community.

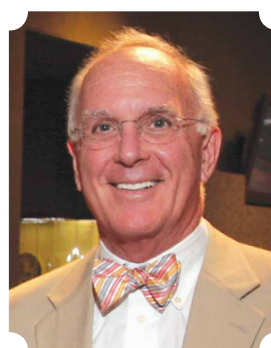
The museum's initiative to engage university faculty and students in object-based learning continued its growth under the leadership of Academic Programs Coordinator Lindsey Wainwright. More than 3,600 students (a 41 percent increase) were involved in experiential learning at the museum—a strategic objective of the university.

Four special exhibitions—botanical photographs by Alan Heilman, Buddhist art of the Himalayas, the Maya, and current research on dinosaurs—clearly reflect the museum's mission to advance an appreciation and understanding of the earth and its peoples. Support from our members and sponsorships continue to make these dramatic and informative exhibits possible.

Gifts to the museum enhanced our collections and research potential: a Chinese Buddhist stela (Northern Wei dynasty AD 386–584) is now installed in the Decorative Arts gallery, 81 antique natural history prints were received and selections were framed and installed in Ayres Hall and in the Department of Ecology and Evolutionary Biology, an early 19th-century collection of freshwater mussels was added to the museum's nationally renowned mollusk collection, and four archaeological collections recovered in the 1960s and early 1970s joined the extensive collections from East Tennessee.

This year's staff milestones included my 25th year as director and Deborah Woodiel's as museum educator and assistant director. Museums are about education, and Debbie has built a strong program that has impacted more than 200,000 children in the East Tennessee area. I am proud of what we have achieved in this quarter century.

The many activities and achievements highlighted in this annual report elevate the museum's efforts to become a nationally recognized museum, which in turn elevates UT's efforts to become a Top 25 public research institution. Great universities have great museums.



Jefferson Chapman, Director

On the cover:

Padmapani Lokeshvara
12th century, central Tibet, copper alloy.
Anonymous lender (*Embodying Enlightenment: Buddhist Art of the Himalayas*).

Maya Lidded Vessel (replica)
Ninth century, Copan, Guatemala, painted ceramic.
(*Maya: Lords of Time*).

Male and female statues
Sandstone.
Mississippian period AD 1250–1350. Sellars site, Wilson County, Tennessee.
1940.1.1 and L2016.3.



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 the university community of students and faculty. During each semester, UT students attend classes at the museum two or three times each week. During fiscal year 2016, there were 1,496 students enrolled in ten classes that met at the museum. This translates to a high per capita student building usage—roughly 125,000 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 this report.

The museum visitor count, including non-university school groups and excluding students attending classes in the museum, totaled 63,437. Based on the guest register (signed by less than 4 percent of visitors), museum visitors came from 42 states, Washington, DC, Puerto Rico, and six foreign countries. As expected, the majority of visitors came from Knoxville and surrounding counties.

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Special Exhibitions

Through the Lens: Botanical Photography of Alan S. Heilman. June 5–August 30, 2015. Presented by First Tennessee Foundation, UT Federal Credit Union, and Thompson Photo Products. Additional support provided by Knox County, City of Knoxville, and the Arts and Heritage Fund. Curated by Gary Crites.

Embodying Enlightenment: Buddhist Art of the Himalayas. September 11, 2015–January 3, 2016. Presented by Arader Galleries, Ready for the World, Prasad Hutter, and the Aletha and Clayton Brodine Museum Fund. Additional support provided by Knox County, City of Knoxville, and the Arts and Heritage Fund. Curated by Walter Arader and Jeff Watt.

Maya: Lords of Time. January 23–May 22, 2016. Organized by Penn Museum, University of Pennsylvania Museum of Archaeology and Anthropology. Presented by Home Federal Bank, Ann and Steve Bailey, William B. Stokely Jr. Foundation, Ready for the World, Hispanic Chamber of Commerce of East Tennessee, and HoLa Hora Latina. Additional support provided by Knox County, City of Knoxville, and the Arts and Culture Alliance.

Dinosaur Discoveries: Ancient Fossils, New Ideas. June 4–August 28, 2016. Organized by The American Museum of Natural History, in collaboration with California Academy of Sciences, San Francisco; The Field Museum, Chicago; Houston

Museum of Natural Science; and the North Carolina Museum of Natural Sciences, Raleigh. Presented by First Tennessee Foundation, Nick and Fran Newell Museum Fund, and the Keller Group. Additional support provided by Knox County, City of Knoxville, and the Arts and Culture Alliance.

Silicon Sleuth: Investigating the Composition of the Ancient Ocean. June 12, 2015–present. Graduate research exhibit by Latisha Brengman, Department of Earth and Planetary Sciences.

Negative Painted Pottery. October 7, 2014–March 2016. Archaeology case exhibit curated by Tim Baumann.

Ancient Dogs of West Tennessee. April 2016–ongoing. Graduate research exhibit by Meagan E. Dennison, Department of Anthropology.

The Flora and Fauna of Catesby, Mason, and Audubon. September 1, 2014–October 5, 2015. Print exhibition case.

Celebrating the Centennial of the Tennessee Ornithological Society. October 7, 2015–ongoing. Print exhibition case.

The Delicate Beauty of Belleek Porcelain. June 1, 2015–March 29, 2016. Case exhibit curated by Donna McCarthy, research associate.

The First World War and Knoxville: Through the Eyes of Harry Moreland. March 30–July 7, 2016. Case exhibit curated by Robert W. Rennie, Graduate Fellow in Academic Programs at McClung Museum.

Chinese Buddhist stele, Northern Wei Dynasty (386–534). Permanent installation in The Decorative Experience.

Male and female Native American sculptures from the Sellars site, Wilson County, TN, AD 1250–1350. May 2016–ongoing.

Life on the Roman Frontier. Ongoing case exhibit.

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

Dig It! Fun with Fossils Camp, July 13–17, 2015.

“Mindfulness in the Museum.” Lecture with Lindsey Wainwright, July 17, 2015.

“Plants and Animals of Tennessee.” Family Fun Day, July 18, 2015.

“Plant and Garden Photography.” Demonstration by Sue Hamilton, July 19, 2015.

“Plants and Animals of Tennessee.” Stroller Tour, July 20, 2015.

Yoga Nidra with Jamie Blessinger, July 24, 2015.

Meditation in Motion with Andrea Cartwright, July 31, 2015.

“Botanical Photography.” Family Fun Day, August 1, 2015.

McClung After Dark. Welcome UT students, August 19, 2015.

“Through the Lens.” Stroller Tour, August 24, 2015.

“Labor Day Sunflower Project.” Lecture by Gerry Moll, August 27, 2015.

Boomsday Fundraiser: “A Night at the Museum,” September 6, 2015.

Scrib a Thons. Transcription of the 1st US Colored Troops Heavy Artillery Regimental Records by UT Chancellor’s Honor Students, September 13, 2015; February 7, March 6, April 17, 2016.



Sand Mandala
Tibetan monks from the Drepung Loseling Monastery, Atlanta, Georgia.

“Mystical Arts of Tibet: Sand Mandala Painting.” September 22–25, 2015.

“Celebrating Tibet.” Family Fun Day, September 26, 2015.

“Deity Yoga and Metaphysics in Tibetan Buddhism.” Lecture by Eddy Falls, October 6, 2015.

“Can You Dig It?” International Archaeology and National Fossil Day, October 11, 2015.

“Discovering Buddhist Folktales.” Stroller Tour, October 19, 2015.

Lecture and Calm Abiding Meditation. November 8, 2015.

“Art and Buddhism.” Stroller Tour, November 9, 2015.

Embodying Enlightenment: Buddhist Art of the Himalayas. Family Fun Day, November 14, 2015.

“International Winter Festivities.” Stroller Tour, December 14, 2015.

“Discovering Freshwater Mussels.” Stroller Tour, January 11, 2016.

“Clergy, Physicians, and Press: Ministering to the People.” Civil War lecture by Joan Markel, McClung Museum, January 24, 2016.

“Maya Writing.” Family Fun Day, January 30, 2016.

“Love Around the World.” Stroller Tour, February 8, 2016.

Darwin Day Birthday Celebration, February 12, 2016.

“Politicians and Lawmakers: Attempting to Maintain Control.” Civil War lecture by Joan Markel, McClung Museum, February 21, 2016.

“The Once and Future Maya: Cultural Revival and Resurgence in the Modern World.” Lecture by Ted Fischer, Vanderbilt University, February 25, 2016.

“Celebrating African-American History.” Family Fun Day, February 27, 2016.

“The Maya Calendar.” Stroller Tour, March 7, 2016.

“Media Design for Museum Experiences: An Interdisciplinary Perspective.” Lecture by Palmyre Pierroux, University of Oslo, March 10, 2016.

“Merchants, Manufacturers, and Financiers: Show Us the Money.” Civil War lecture by Joan Markel, McClung Museum, March 20, 2016.

“The First World War and Knoxville: Through the Eyes of Harry Moreland.” Gallery talk by Robert Rennie, UT. April 6, 2016.

“Maya Festival.” Family Fun Day, April 9, 2016.

Civil War Bus Tour with Joan Markel, April 10, 2016.

“Mayan Folktales.” Stroller Tour, April 18, 2016.

Fort Dickerson Civil War hike with Joan Markel, April 23, 2016.

“Civil Servants, Trades, Farmers, and Military: Just Trying to Hold It Together.” Civil War lecture by Joan Markel, April 24, 2016.

“Mother’s Day Celebration.” Family Fun Day, May 7, 2016.

“Geology Rocks!” Stroller Tour, May 23, 2016.

Dino Explorers Camp, June 7–9, 2016.

“In the Land of the Dinosaurs.” Family Fun Day, June 11, 2016.

Jurassic Kids Camp, June 14–15, 2016.

“Night at the Museum” Family Sleepover, June 17–18, 2016.

Dig It! Fun with Fossils Camp, June 20–24, 2016.

Little Masters Camp, June 21–23, 2016.

“Dinosaurs in the Movies: Fact of Fiction?” Lecture by Stephanie Drumheller-Horton, Department of Earth and Planetary Sciences, June 26, 2016.

“Moving among Dinosaurs.” Stroller Tour, June 27, 2016.



CONTRIBUTIONS TO THE McCLUNG MUSEUM

July 1, 2015–June 30, 2016

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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Lotus

2000. Alan S. Heilman, 35mm Fujichrome slide, UT Libraries 0702. (*Through the Lens: Botanical Photography of Alan S. Heilman*).



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research

ARTS & CULTURE COLLECTIONS

The past year was very busy for the museum’s Arts and Culture collections. Registrar Shannon Perry was helped by graduate assistants Madeline James (fall 2015) and Sam Gleason (spring 2016) and graduate intern Rachel Vykukal. Projects included preparing objects for use by a steady stream of university classes and K–12 educational programs, completing detailed cataloguing and photography of new and recent acquisitions, and conducting a focused inventory and condition assessment of the museum’s furniture collection.

Perry and curator Catherine Shteynberg also worked together to identify artists, catalogue additional collections, and add keywords to aid users for the pilot launch of 1,200-plus objects in a new online search catalogue in October 2016. Digitized collections include examples of historic photography, ancient Roman objects, antique maps, and 2-D art. Upcoming collections to be digitized will include more historic photography, Northwest Coast Native American material culture, and Tang Dynasty Chinese ceramics.

Students, staff, and faculty not only used our Arts and Culture collections extensively in the past year for teaching and learning as part of academic programs at the museum, but they also used them in research.

Robert Rennie, academic programs graduate assistant, drew upon the museum’s World War I collections to curate his own exhibition—*The First World War and Knoxville: Through the Eyes of Harry Moreland*—the first of a series of new student-curated mini-exhibitions drawing upon the Arts and Culture collections at the museum.

Faculty research in the Arts and Culture collections was conducted by various scholars. Professor Mary Campbell of the art history department looked into 19th-century concepts of environmentalism and depictions of endangered animals. Marina Maccari-Clayton of the history department researched World War I propaganda posters. Melissa Hinton of the geography department completed research on the museum’s map collection. Carol Clark, emerita professor of the history of art at Amherst College, researched *The Quartz Miners*, one of the only known casts of that sculpture, created by Louis McClellan Potter. Zachary R.

Jones, acting state archivist of the Alaska State Archives, looked at the museum’s Northwest Coast Native American holdings and helped identify objects in that collection.

Over the past year, supported by curatorial assistant Melinda Narro, Shteynberg has completed research on the museum’s decorative arts, textiles, and ethnographic collections for upcoming exhibitions on both the Gilded Age and bodily adornment and costume. Narro also helped to recatalog and add information to dozens of 19th-century objects from the museum’s decorative arts collections. Former curatorial assistant and current museum volunteer Christine Dano Johnson continued work on culturally identifying and recataloging the museum’s Alaska Native collections. Narro, Madeline James, and Sam Gleason also helped maintain the Object of the Week feature on the museum’s website and social media platforms.

ARCHAEOLOGY

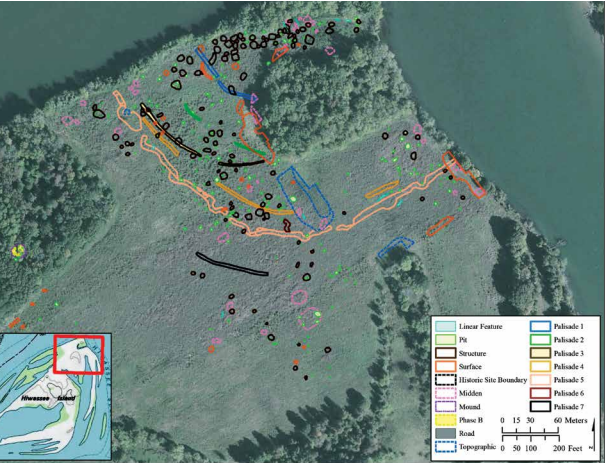
The archaeology division has continued to be a very active place for the preservation of and research on Tennessee’s heritage. The majority of the work has focused on a second one-year contract for \$110,000 from the Tennessee Valley Authority (TVA) to stabilize and digitize paper and photographic records at the McClung Museum from TVA reservoir projects. The TVA materials have doubled in size this past year as TVA requested that all of their archaeological collections at the University of Tennessee (UT) be managed by the McClung Museum. Prior to this year, the UT Department of Anthropology curated TVA collections from Normandy, Columbia, and other reservoirs in Tennessee. Through digitization efforts, 20,985 slides have scanned and archived, 8,733 photographs, and 97.4 linear feet of research documents. In addition, 571 oversized maps have been rehoused in map cabinets or archival boxes.

The museum continued to consult with government agencies and federally recognized tribes to meet the legal requirements of the Native American Graves Protection and Repatriation Act (NAGPRA) of 1990, which mandates that the museum provide a list of Native American human remains, associated funerary objects, and sacred objects in its possession for possible repatriation by tribes. Working with the UT general counsel, the museum has been leading efforts to create a new campus committee on NAGPRA to address UT’s legal and ethical responsibility.

New research requests and current studies by professional scholars and students of the museum’s archaeological collections have come from academic institutions and government agencies in Arkansas, Florida, Illinois, Maryland, Mississippi, New York, North Carolina, Ohio, and Tennessee. Overall, this research has resulted in more than 30 publications or presentations, one completed dissertation, two exhibits, and 10 ongoing graduate dissertation/thesis projects. The study of prehistoric human skeletal remains continued to be the most frequent area of research. Examples include the long-term work of Maria Smith at Illinois State University along with her colleagues and graduate students. Smith worked with Tracy Betsinger of SUNY-Oneonta and Michaelyn Harle of TVA to examine oral health and young female mortality as well as perinatal mortuary patterns in late prehistoric populations of Tennessee. Smith also searched for skeletal evidence of violence and sociopolitical relationships during the Archaic period of West Tennessee.

The museum supported a geophysical survey by TVA and New South Associates on the Hiwassee Island and Bell sites in Meigs and Roane counties, respectfully. Both sites contained prehistoric earthen mounds and villages that were previously investigated by UT before World War II. The geophysical surveys were done to determine if subsurface cultural features were still intact without disturbing the site. Both surveys recorded a multitude of possible storage pits, hearths, houses, plazas, and palisade fences that were unknown previously or were thought to have been destroyed by earlier excavations and/or by reservoir construction.

Geophysical survey results at Hiwassee Island, Meigs County, Tennessee
Courtesy New South Associates



17th and 18th century glass trade beads

Jessica Dalton-Carriger, a former archaeology graduate assistant at the museum, completed her dissertation at UT on the 17th-century protohistoric period in East Tennessee. Dalton-Carriger focused on glass trade beads and ceramics in the museum’s collections to clarify this transitional period. The bead results suggest a clear and continuous occupation in East Tennessee. The ceramic data records a mixture of late prehistoric and historic Native American pottery traits, which supports her hypothesis that local stable populations transformed into the Cherokee.

The Tennessee State Museum (TSM) and the Old Stone Fort Archaeological Park used artifacts and images from the museum to create new exhibits. The TSM requested a loan of the museum’s two sandstone statues recovered from the Sellars Farm State Archaeological Area in Wilson County for a temporary exhibit entitled *Ancestors: Ancient Native American Sculptures of Tennessee*. The male Sellars statue that was loaned from the McClung was designated as the Tennessee State Artifact in 2014 and was joined on display for the first time in 75 years with his female partner that is privately owned. In an effort to keep this pair together, the McClung Museum has started a fundraising campaign to purchase this female statue.

The museum also received numerous requests from the general public via phone, email, and in person. Most inquiries were for the identification of possible artifacts.



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research

MALACOLOGY

In fiscal year 2016, the Paul W. Parmalee Malacological Collection added 25,438 specimens, bringing the total cataloged specimens to 139,161. Much of the growth in the collection is the result of a research project currently being conducted by curator Gerry Dinkins and Barbara Dinkins on the land snails of Knox County.

In March, the University of the South (Sewanee University) donated a mollusk collection belonging to one of the founders of Sewanee, Bishop Stephen Elliott (1806–1866). Elliott was an avid shell collector who corresponded with many esteemed malacologists of his day in the United States and Europe, including Isaac Lea and Timothy Abbott Conrad, active members of the Academy of Natural Sciences of Philadelphia. Many of Elliott’s shells were used by Lea as type specimens for new mollusk species. Dinkins and collections manager Kristin Irwin have completed cataloging the freshwater bivalves from this collection and will be collaborating with outside specialists to assign modern names to the marine bivalves and gastropods. The freshwater mussel specimens in the Elliott collection consisted of 154 species from four families (*Unionidae*, *Margaritiferidae*, *Hyriidae*, and *Iridinidae*). These specimens originated from 13 countries in North and South America, Africa, Europe, and China. Within the United States there were mussel specimens from 25 drainage basins collected by 21 different individuals, including Elliott himself. Many of his

specimens revealed new occurrence records, and there were a number of extinct species represented. Arguably, this is one of, if not the most significant historical mollusk collection to come to light in some time. All of the specimens were collected in the early to mid-1800s, before changes to the eastern US landscape caused some aspects of the aquatic fauna in many of our larger streams to decline or disappear.

In addition, a significant freshwater mussel collection was donated to the museum from Tennessee Tech University. James Layzer, a close friend and colleague of Paul Parmalee, amassed the collection. His extensive research collection consisted of approximately 40 different species and 3,500 specimens of freshwater mussels.

Dinkins and Irwin received a state wildlife grant from the Tennessee Wildlife Resources Agency with money that originated from the US Fish and Wildlife Service. The grant will provide complete funding for Irwin’s MS degree in wildlife and fisheries sciences. Her research topic will be the status and distribution of freshwater mussels in tributaries to the Harpeth and Duck Rivers in Middle Tennessee. The US Fish and Wildlife Service will use information from this research to determine if selected species warrant protection as threatened or endangered.

The Center for Biological Diversity and the City of Knoxville funded a mural featuring freshwater mussels in the Tennessee River

There are 137 species of freshwater mussels in Tennessee.



Quantitative mussel survey on the Big South Fork in Tennessee

system. The mural was painted on a concrete retaining wall along the Third Creek Greenway on the edge of the university’s agricultural campus. Dinkins and Irwin provided technical guidance to the artists regarding the species’ complex life cycle, which was depicted on the mural, and loaned specimens from the collection of three species (Wavyrayed Lampmussel, Cumberlandian Combshell, and Pink Mucket) as models for the painting.

The malacology lab continues to work closely with the university’s Department of Forestry, Fisheries, and Wildlife. In fall 2015, Dinkins gave a workshop on the identification and ecology of freshwater mussels as part of the department’s fall camp for undergraduates and graduate students in wildlife and fisheries science, and in spring 2016, Dinkins organized and taught a graduate-level course on the ecology and identification of freshwater mussels. Two



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research

field trips were made to examine mussels in the Nolichucky, Buffalo, Duck, and Emory Rivers.

The malacology collection is collaborating with Bhavya Sharma and her student Peymon Baghernejad on using Raman Spectroscopy to analyze pigments in freshwater mussel shells. This is the first time this technique has been used to examine the composition of freshwater mussels and could prove useful in comparing and aging modern and archeological shell material.

The malacological lab is currently helping the US Fish and Wildlife Service’s national training center in West Virginia to assemble a teaching collection that will be used to train biologists from various federal agencies in the identification and classification of freshwater mussels. This collection will consist of native species from throughout the United States.

PALEOETHNOBOTANY

Scholars from other universities and research venues, as well as UT faculty and students, have drawn upon the paleoethnobotany, paleoecology/natural history collections, modern comparative collections, and data associated with those collections. Examples of research include: a UT doctoral dissertation in the Department of Geography and the Initiative for Quaternary Paleoclimate Research using charcoals from late Quaternary lake sediments curated in the museum’s botanical collections to investigate ancient fire activity in the eastern United States; postdoctoral and faculty research into a 23,000-year-old microscopic charcoal record from central Tennessee; evaluation of late prehistoric subsistence and radiocarbon dating of early introduced non-native domesticated plants in western North Carolina; initial efforts to identify an early example of non-native domesticated plant

species in 1,700- to 1,800-year-old context by researchers in Illinois and Michigan.

Paleoethnobotany curator Gary Crites and archaeology curator Tim Baumann continued their research into the route(s) and timing of arrival of domesticated beans in the Southeast. Archaeologically recovered botanical samples from four central Tennessee sites, which potentially contain some of the oldest remains of domesticated beans in eastern North America, were recently obtained and Crites is now coordinating efforts to chemically identify particular fatty acids, alkaloids, proteins, or other biomarkers in an attempt to positively identify some poorly preserved, problematic bean fragments.

After a lengthy hiatus due to UT landscaping priorities, a garden space for well-documented pre-Columbian Native American domesticated and cultivated food plants has been reestablished. In collaboration with the UT Gardens, staff space was prepared at the gardens and initial installation of several species (corn, beans, squash, little barley, chenopodium, maygrass, and sumpweed) grown millennia ago in eastern North America began. The plants are being employed in ethnobiological research and education/outreach programming. The initial success of this project resulted in requests for assistance from the head of science at the Royal Botanical Garden in Ontario, Canada, as they develop subsistence and ethnomedicine research interrelations with local and regional native groups.



PUBLICATIONS, PAPERS, AND RESEARCH REPORTS



Baumann, Timothy
“Full of Beans: The Late Prehistoric Arrival and Distribution of Cultivated Beans in the Eastern U.S.” Presentation given at the Missouri History Museum in St. Louis for the Mound City Archaeology Lecture Series, October 7, 2015.

“The Origin and Cultural Identity of ‘Soul Food’ in the United States.” Presentation given for the 42nd annual Visiting Lecture Series, Department of Anthropology, University of Tennessee, October 22, 2015.

“Painting in the Shadows: Prehistoric Negative Painted Pottery in Tennessee and the Eastern Woodlands.” Presentation given to the East Tennessee Chapter of the Archaeological Institute of America, January 19, 2016.

Baumann, Timothy, Valerie Altizer, Edward Herrmann, G. William Monaghan, and Alexander Craib
“Mystery Domes: The 2013 Passport in Time (PIT) Project on German Ridge in Hoosier National Forest, Perry County, Tennessee.” Report prepared for USDA Hoosier National Forest. Glenn A. Black Laboratory of Archaeology, Indiana University.

Baumann, Timothy and Gary Crites
“The Origin of the Common Bean (*Phaseolus vulgaris*) in East Tennessee.” Paper given at the annual Cherokee Archaeology Symposium in Cherokee, North Carolina, September 24–25, 2015.

“The Age and Distribution of the Common Bean (*Phaseolus vulgaris*) in Tennessee and the Southeastern US” Paper presented at the 81st annual meeting of the Society for American Archaeology in Orlando, Florida, April 6–10, 2016.

Baumann, Timothy, Erika Lyle, Donna McCarthy, Kimberly Wren, and Alexander Craib
“Partners in Heritage: TVA and the University of Tennessee.” Paper presented at the 72nd annual meeting of the Southeastern Archaeological Conference in Nashville, Tennessee, November 18–21, 2015.

Crites, Gary
“Foraging to Food Production: Once a Weed, Always a Weed?” Invited illustrated paper presented at Foraging Knoxville meeting. Knoxville, Tennessee, February 2016.

“Harvesting the Past: Plants, People, and Food Production in Prehistoric Eastern North America.” Invited illustrated paper presented to the membership of UT Gardens, May 2016.

Crites, Gary and Timothy Baumann
“The Age and Distribution of the Common Bean (*Phaseolus vulgaris*) in Tennessee.” Paper presented at the 72nd annual meeting of the Southeastern Archaeological Conference in Nashville, Tennessee, November 18–21, 2015.

Dinkins, Gerald R.
“Survey for freshwater mussels in Buck Creek in the vicinity of the proposed connection track between Lineville Subdivision and S&N South Subdivision, Shelby County, Alabama.” Report to Amec Foster Wheeler, Environment & Infrastructure, Nashville, Tennessee, September 2015.

“Survey for freshwater mussels in the Licking River for the Columbia Gas Transmission E Systems Project, Nicholas and Robertson Counties, Kentucky.” Report to CH2M Hill Engineers, Inc. and Columbia Gas Transmission, LLC, October 2015.

“Survey of fish, mussels, and aquatic snails in streams along the path of the Dalton Expansion Project, Georgia.” Report to CH2M Hill, Inc., Birmingham, Alabama, January 2016.

“Survey for state endangered Hardin Crayfish in Snake Creek in the vicinity of the Tennessee Gas Pipeline, McNairy County, Tennessee.” Report to Environment & Archeology, Florence, Kentucky, May 2016.

“Survey for state endangered Eggmimic Darter in unnamed tributary to Mill Creek in the vicinity of the Tennessee Gas Pipeline, Hickman County, Tennessee.” Report to Environment & Archeology, Florence, Kentucky, May 2016.

“Survey for the Snail Darter (*Percina tanasi*) in the vicinity of the East Brainerd Pumpstation Project, Hamilton County, Tennessee.” Report to RTD Construction, Chattanooga, Tennessee, July 2016.

“Assessment of the fish community in the cooling water reservoir on Sinking Creek at the Jarden Facility, Greene County, Tennessee.” Report to EnSafe, Inc., Nashville, Tennessee, August 2016.

Dinkins, Gerald R. and Steven A. Ahlstedt
“Survey for freshwater mussels in the Clinch River in the vicinity of the bank collapse at the AEP Power Plant, Russell County, VA.” Report to B & G Pipeline, Searcy, Arkansas, May 2016.

Dinkins, Gerald R., Robert T. Eldridge, and Barbara J. Dinkins
“Survey of mussels and snails in Buck Creek and unnamed tributary in the vicinity of the CSX Transportation Bridge, Shelby County, Alabama.” Report to Amec Foster Wheeler, Environment and Infrastructure, Inc. Nashville, Tennessee, November 2015.

“Survey of fish, mussels, and snails in streams in the vicinity of the CSX transportation bridge over the Cahaba River, Shelby County, Alabama CSX Milepost 000 407.80.” Report to Amec Foster Wheeler, Nashville, Tennessee, November 2015.

Irwin, Kristin L. and Gerald R. Dinkins
“Status of the Paul W. Parmalee Malacological Collection at the McClung Museum of Natural History and Culture.” Presentation to the Tennessee Rare Mussel Meeting, Knoxville, Tennessee, December 2015.

McCarthy, Donna
“Shuffling the Bones: Addressing Burial Commingling at the DeArmond Mound in East Tennessee.” Poster prepared for the 2016 Current Research in Tennessee Archaeology (CRITA) conference in Nashville, Tennessee. [meeting cancelled because of weather]

McCarthy, Donna and Kevin Hufnagl
“Bioarchaeological Research Using WPA-Era Osteological Collections 1935–2015: A View from the McClung Museum.” Poster presented at the 72nd annual meeting of the Southeastern Archaeological Conference in Nashville, Tennessee. November 18–21, 2015.

“Skeletal Anomalies and Paleopathology of DeArmond (40Re12), a Mississippian Site in Eastern Tennessee.” Poster presented at the annual meeting of the American Association of Physical Anthropologists in Atlanta, Georgia, April 13–16, 2016.

Drs. Detlef Rainer Matt and Mary Headrick
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Dr. Joseph Miles and Mr. Patrick Grzanka
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education programs

The museum saw increases in all aspects of its education programs in fiscal year 2016. The total attendance for all education programs was 14,017, an overall increase of 23 percent. Education programs include organized staff or docent-led activities in the museum or outreach at other places that utilize museum exhibitions and/or collections. The following summary is divided by the basic audiences of the museum—UT users, families, PreK–12 students and teachers, and adults who are not students.

ACADEMIC PROGRAMS

The second year of academic programs at the museum was characterized by a high demand for class visits and collections use for teaching and research. With the help of a graduate assistant, the capacity of the museum to accommodate class visit requests expanded, and we hosted 3,644 students in class visits, an increase

of more than 32 percent from the number of students in class visits who came to the museum during the previous year. Twenty-nine departments from six UT colleges were served, ranging from Africana studies to teacher education. Several classes met each week in the object study room due to their intensive and consistent use of our collections and exhibitions. These included Mary Campbell's art history methodologies course, Stefanie Ohnesorg's freshman seminar Worlds through Maps, and Gerry Dinkin's freshwater mussel class. Additionally, classes from other colleges also scheduled visits in the museum's exhibitions, including Maryville College, Roane State Community College, and Pellissippi State Community College.

The efforts of Academic Program Coordinator Lindsey Wainwright and other staff have significantly strengthened not only academic use of the museum's collections, but also cross-campus ties and partnerships. Students from Misty Anderson's course Restoration and 18th Century Literature used objects in our collection to discuss economics and slavery and were spurred to initiate a university-wide discussion of human trafficking. Design charrettes for future exhibitions have brought together faculty from across campus to help tie those exhibitions and their related programming to university curricula. While we continue to expand the number of students coming to the museum for class visits, we also pursue the goal of becoming a site for interdisciplinary engagement and exchange on campus, lending fertile ground to the cross-pollination of ideas and knowledge among a variety of disciplines.

FAMILY PROGRAMS

The museum's family programs, consisting of monthly Family Fun Days and Stroller Tours, continue to show an upward trend in attendance, receiving 2,405 visitors this year. Attendance to 12 Stroller Tours rose to 374 participants (a 26 percent increase compared to 2015), while turnout to 11 Family Fun days rose to 2,031 (a 12 percent increase). We credit these numbers to our consistent offerings, as well as greater visibility in various social media outlets and local family activity calendars. In particular, Stroller Tour registrations indicate a significant number of recurrent participants in the last eight months.

In April 2016, the museum hosted a Maya Festival to highlight the exhibition *Maya: Lords of Time*. The museum collaborated with members of the local Guatemalan community to feature ethnic food, back-strap loom weaving demonstrations, live marimba music, and dance. Not only did we attract 634 visitors, but we also hosted one of our most diverse family events to date.

Our summer exhibition, *Dinosaur Discoveries: Ancient Fossils, New Ideas*, brought 310 visitors to the June Family Fun Day. Additionally, this exhibition gave us the exciting opportunity to

host a Night at the McClung Museum—our first-ever overnight museum experience. The program was booked to capacity, drawing 60 participants between adults and their children. Attendees partook in a flashlight tour of the summer exhibition, story time, show and tell, craft projects, and a screening of dinosaur-themed movies debunked under the guidance of Stephanie Drumheller-Horton, paleontologist in the Department of Earth and Planetary Sciences. Reviews were overwhelmingly positive.

Assistant Educator Leslie Chang Jantz also increased the museum's summer camp offerings in 2016 to include PreK and toddler/adult campers. This change extended our regular camp schedule from two to six camp options. Themes included dinosaurs and fine arts. Our most popular program for toddlers (ages two and three) and their caregivers, Jurassic Kids, drew the capacity twenty participants. Visitors engaged in circle time, crafts, and activities designed to stimulate scientific inquiry. These new offerings have enjoyed favorable evaluations and there is strong interest in next year's programs.

In 2015, the museum collaborated extensively with the University of Tennessee Center for Children's and Young Adult Literature. Representatives from the program led story time at our Family Fun Days and our inaugural Night at the Museum event. Additionally, the center developed a suggested reading list of more than 36 titles for young visitors based on the museum's permanent exhibits. This list will allow children to explore, and further appreciate, the themes of our collections on multiple levels. It is available for all to read and use on our website.

ADULT PROGRAMS

Adults who are not university students continued to enjoy tours and lectures at the museum and at other venues. Civil War Curator Joan Markel, whose community outreach included 45 programs reaching more than 1,500 people, conducted many of these. This year she added two special bus tours of local Civil War sites, including locations of specific actions of the Knoxville assaults, earthwork areas, cemeteries, and buildings. Walking tours of downtown Knoxville, detailing people, places, and events were also held, and the popular spring lecture series continued to draw local history buffs. The total number of attendees was 1,264. Markel continued to represent the museum at preservation organizations on the state and local level as well.

Teachers were another adult audience served by the museum. Museum Educator Debbie Woodiel conducted or participated in four teacher professional development seminars in fiscal year 2016; two of these focused on the museum's temporary exhibitions on Tibetan Buddhism and the ancient and modern Maya.

PREK–12

Attendance to museum programs for PreK–12 students, both in the museum and outreach to schools, totaled 6,579 students, an overall increase of 38 percent. Most of these groups were public (80 percent), private (14 percent), and homeschool (5 percent), with summer daycare, afterschool, Scout groups, and other special groups attending primarily in the summer months.

Public schools from 15 Tennessee counties came to the museum plus two from Virginia, two from North Carolina, and one from South Carolina. Of the Tennessee counties, 43 percent of students lived in Knox County, followed by Sevier (8 percent), and Blount



(7 percent). Private schools were primarily from Knox County (11 percent of total school attendance) and Blount County (4 percent of total school attendance).

The Archaeology and Native Peoples of Tennessee, Ancient Egypt, and Geology & Fossil History of Tennessee exhibitions were the most visited, with numbers nearly equal (37 percent, 35 percent, 34 percent, respectively). *Art of World Peoples in the Decorative Experience* gallery saw 23 percent of students visiting, and *The Civil War in Knoxville* had 22 percent, Human Origins saw 6 percent. In the temporary exhibitions, *Embodying Enlightenment* had 20 percent of the four-month school total, and the *Maya: Lords of Time* exhibition saw 40 percent of its four-month total.

The outreach program included 14 visits to elementary and middle schools, with a total of 1,510 students participating, an increase of 26 percent. Knox County also accounted for the majority of these students with 81 percent. The outreach program also served students in Roane, Greene, and Bledsoe Counties. This program charges \$2 per student, with low-income students served for free. *Ancient Egypt, Archaeology and Native Peoples of Tennessee*, and *The Civil War in Knoxville* are the three presentations offered to fourth grade and above. As in previous years, more students participated in the Ancient Egypt program. Joan Markel conducted the Civil War outreach, volunteer Ellen Bebb taught the Ancient Egypt program, and education graduate assistants Barbara Forman and Mark Babin presented the archaeology programs.

A new initiative with homeschool students was piloted during the school year. The Enhanced Homeschool Program included nine different exhibition-related programs of 90 minutes duration, which permitted hands-on activities in each exhibition. Students ranged in age from kindergarten to high school, with most being elementary age; total attendance for the year was 135. Because these programs involved materials for the activities, there was a \$5 cost per student. In addition to these programs, our regular 45-minute programs were offered to homeschooled students.

The museum continued to offer focused programs in the science and social sciences to Beaumont Magnet Elementary School for an eighth year. These 11 programs included both learning expeditions at the museum and museum experiences at Beaumont. Over the years, changes in the social studies and science curricula have necessitated new programs for some grades and the elimination of others, but our presentations always draw on museum collections and exhibitions.

Academic Program Coordinator Lindsey Wainwright with students in the McClung collections



Young participants of the Maya Festival



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