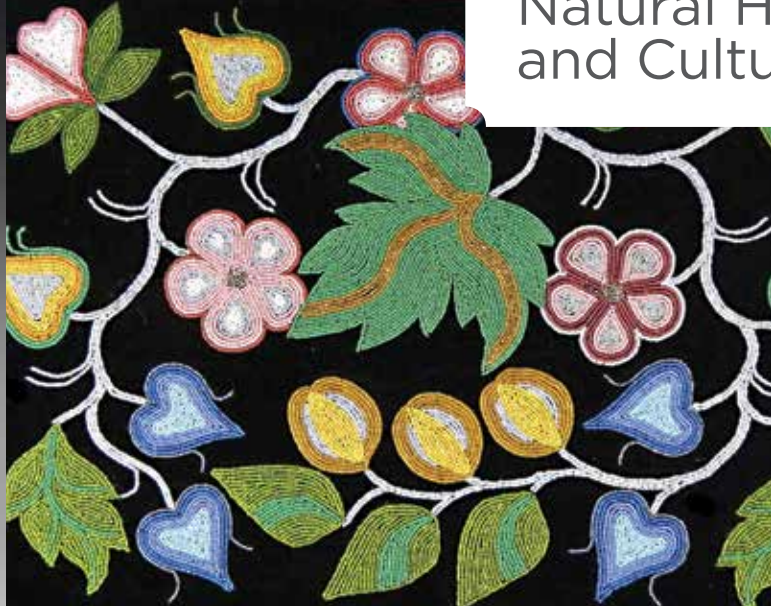




THE UNIVERSITY of TENNESSEE **UT**

McCLUNG MUSEUM *of* Natural History and Culture



from the director

The McClung Museum celebrated its fiftieth anniversary on June 1, 2013, and FY 2014 has seen a continuation of that celebration with special lectures and events throughout the year. The biggest event (literally) occurred on October 25, 2013, with the installation of a 2,400-pound, 24-foot-long bronze cast of an Edmontosaurus—a duck-billed dinosaur that once roamed the coastal plains of Tennessee sixty-five million years ago. The dinosaur was installed in front of the museum and surrounded by plants that descend from the Cretaceous period, which has enhanced our visibility and identity—an effort called for in our 2012 strategic plan.

Much publicity was generated in March 2014 when the governor signed into law a bill making the 650-year-old Native American sandstone statue, pictured below, the official Tennessee state artifact. We are proud to be the stewards of this piece of Tennessee history as well as numerous other objects in our world-class archaeological collections.



The museum continued and expanded its efforts to meet an aspiration of the strategic plan in providing leadership for cultural and natural history education in our region. Our monthly family days and stroller tours, led by Assistant Educator Heather Fritts, along with thousands of docent-led school children, are engaging the community. Increased use of our exhibitions and collections by university classes are fulfilling our academic mission. The addition of Christina Selk as director of external relations in April 2013 has proved to be a wonderful and strategic decision. Under her energetic leadership, the museum has seen a broadened base of support and an increased presence both on campus and in the community.

Retirements generated the addition of talented professionals. The archaeological collections are now under Timothy Baumann, Shannon Perry has assumed the position of registrar and collections manager, and Chris Weddig has been promoted to exhibits coordinator.

As this annual report demonstrates, it has been a good year made possible by committed staff and volunteers as well as the generous financial support from our members and sponsors—all accomplished in our efforts to be a nationally recognized museum in support of the university's strategic efforts to become a Top 25 public research institution of higher education.

A handwritten signature in black ink, reading "Jeff Chapman".

Jefferson Chapman, Director



On the cover:

Jar with sixteen handles. Eastern Mediterranean, Roman, AD 4th–5th century. Anna Rosalie Mansfield Collection, Yale University Art Gallery, 1930.429.

From Glass of the Ancient Mediterranean

Hopi ceramic jar, 1890–1900 Nampeyo (1860–1942). Kansas City Museum, 1940.514

From Pueblo to Pueblo: The Legacy of Southwest Indian Pottery.

Ojibwa Beaded Apron Panel.

Gift of Virginia and Robert Dunlap, 2006.8.2

From Brightly Beaded: North American Indian Glass Beadwork



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Deborah Woodiel
Assistant Director
Museum Educator

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Research Associate Professor

Gary Crites
Curator of Paleoethobotany
Research Assistant Professor

Gerald Dinkins
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Family Programs

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Media Productions
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Exhibits Coordinator

Joan Markel
Civil War Curator

Abby Naunheimer (July)
Family Program Coordinator

Kimberly Pack
Museum Store Manager

Robert Pennington
(retired March)
Registrar

Shannon Perry
Registrar

Christina Selk
Director of External Relations

Catherine Shteynberg
Curator/Web and New
Media Coordinator

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 museum 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 a semester, students attend classes two or three times each week in the McClung's auditorium. During FY 2014, 3,118 students enrolled in twenty-five classes that met at the museum. This number translates to a high per capita student building usage—more than 125,000 visits. These students are exposed to exhibits while waiting for classes and most look around the museum several times a semester. Although sometimes hard to track, at least thirty-nine UT and ten other college/university classes had assignments that brought students to various museum exhibits.

The visitor count at the museum, including non-university school groups, and excluding students attending classes in the museum, totaled 37,260. The number of visitors participating in museum-led programs at the museum totaled 8,349; in addition, 3,304 attended various outreach programs conducted by museum staff. Based on the guest register (signed by less than 4 percent of visitors), museum visitors came from thirty-six states, the District of Columbia, and nine foreign countries. As expected, the majority are from Knoxville and surrounding counties.

membership

We are pleased to announce improvements to our membership program, which provides critical support for our programs, exhibitions, and collections. Giving names and levels will stay the same, but each membership category now has additional benefits, and you can upgrade your membership at any time.

For more information, please visit mcclungmuseum.utk.edu/membership, or call 865-974-2143.

As always, thank you for your support!



Tiffany Vaughn
Secretary

Chris Weddig
Exhibits Preparator/
Coordinator

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Madeline James
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Aubrey Rhodes
Virgie Snow
Kirby Trovillo
Hillary Waller



A Southern Aristocrat. Lloyd Branson, 1896, oil on panel.
Bequest of Judge John Webb Green and Ellen McClung
Green, 1957.3.707. From *The Collector's Eye*

Special Exhibitions

Birds in Art. May 25–August 18, 2013. Presented by First Tennessee Foundation, Henley W. and Peggy H. Tate Museum Fund, and Ardath and Joel E. Rynning Museum Operations Fund. Organized by Leigh Yawkey Woodson Art Museum, Wausau, Wisconsin.

Pueblo to Pueblo: The Legacy of Southwest Indian Pottery. September 7, 2013–January 5, 2014. Presented by Raoul and Marie L. Verhagen Museum Fund, Robert E. Withers in memory of Kent and Martha Anne Withers, UT Ready for the World, Barber McMurry Architects, UT Federal Credit Union, and the Arts and Heritage Fund. From the collection of the Kansas City Museum & Union Station Kansas City, Inc., and curated by Bill Mercer. Tour development by Smith Kramer Traveling Exhibits, Kansas City.

Glass of the Ancient Mediterranean. January 18–June 1, 2014. Presented by Home Federal Bank, UT Ready for the World, Aletha and Clayton Brodine Museum Fund, AARP, and the Arts and Heritage Fund. Loan from Yale University Art Gallery. Curated by Sara E. Cole.

Brightly Beaded: North American Indian Glass Beadwork. January 18–June 1, 2014. Presented by Home Federal Bank, UT Ready for the World, Nick and Fran Newell Museum Fund, AARP, and the Arts and Heritage Fund. Curated by Michael H. Logan.

The Collector's Eye: American and European Art from the McClung Museum. June 14–

September 1, 2014. Presented by Bennett Galleries, WUOT FM, Elaine Altman Evans Museum Fund, and the Arts and Heritage Fund. Curated by Catherine Shteynberg.

Art of Winter Olympic Sports. February 2014. Lobby case with three sculptures by R. Tait McKenzie from the Joseph B. Wolfe Collection.

Dutch Pottery. Case exhibit from the Hensley Pitcher Collection curated by Pamela Bloor, research associate.

Recent Research in Geology. Case exhibit by Sarah Keenan, UT Department of Earth and Planetary Sciences.

Prints from John Gould's Birds of Australia. Ongoing case exhibit.

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 Events

"Dig It! Fun with Fossils." Camp, Ryan Roney, instructor, July 15–19, 2013.

"Archaeokids: Exploring Ancient Art and Archaeology." Camp, Abby Naunheimer, instructor, July 22–26, 2013.

Lecture and book signing for *Knoxville in the Civil War* by Joan Markel, August 11, 2013.

"Geology and Fossil History." Stroller tour, August 19, 2013.

"Cultures on the Edge: The Race Against Time to Help Empower Traditional Cultures." Illustrated lecture by Chris Ranier, National Geographic Society Fellow, September 22, 2013.

"Can You Dig It?" Family-friendly activities celebrating International Archaeology Day and National Fossil Day, October 13, 2013. In cooperation with the East Tennessee Chapter of the Archaeological Institute of America. A Penny4Arts event.

"An Eternal Zoo: Ancient Egyptian Animal Mummies." Illustrated lecture by Salima Ikram, American University in Cairo, October 15, 2013.

"Cows of the Mesozoic: The Origin and Distribution of Plant-Eating Dinosaurs." Illustrated lecture by Marc R. Spencer, Marshall University, October 27, 2013.

"Pueblo Pottery." Free family activity day, November 2, 2013.

"Pueblo Pottery." Stroller tour,
November 10, 2013.

"Winter Holidays in the Decorative Arts." Stroller
tour, December 16, 2013.

"Celebrating Winter Holidays." Free family
activity day, December 21, 2013.

"Textile and Fiber Arts." Stroller tour,
January 13, 2014.

"Glass of the Ancient Mediterranean." Free family
activity day, January 25, 2014.

"Soldiers' Stories: Stationed in Knoxville." Illustrated
lecture by Joan Markel, McClung
Museum, January 26, 2014.

"North American Indian Glass Beadwork." Free
family activity day, February 22, 2014.

"George Barnard: Civil War Photographer." Illustrated
lecture by Joan Markel, McClung
Museum. February 23, 2014.

"Glass of the Ancient Mediterranean." Stroller
tour, February 24, 2014.

"Art, Form, and Industry: The History of
Glassmaking in the Ancient Mediterranean." Illustrated
lecture by Sara. E. Cole, Yale
University Art Gallery, March 9, 2014.

"Ancient Egyptian Art." Stroller tour,
March 10, 2014.

"American Indian Beadwork: The Fundamental
Roles of Ethnic Art." Illustrated lecture by
Michael H. Logan, UT, March 23, 2014.

"East Tennessee Civil War Era Attitudes Toward
Slavery." Illustrated lecture by Joan Markel,
McClung Museum, March 30, 2014.

"Beadwork between the Worlds: The Artistic
Interaction of Plains and European Traditions." Illustrated
lecture by Rebecca Bailey, Emory
University, April 13, 2014.

"Grand Divisions: Tennessee's Civil War in the
First Year." Illustrated lecture by Aaron Astor,
Maryville College, April 27, 2014.

"North American Indian Glass Beadwork." Free
family activity day, May 17, 2014.

"Dinosaurs and Fossils." Stroller tour,
May 19, 2014.

"Native American Food and Cooking." Stroller
tour, June 16, 2014.

"Talking Pictures." Short film and program,
June 19, 2014.



Gilt Lacquer Chinese Ming
Dynasty Buddha. Gift
of the Arthur M. Sackler
Foundation, 2013.6.1.

"Portraits in The Collector's Eye." Free family
activity day, June 21, 2014.

"Archaeokids: Exploring Ancient Art and
Archaeology." Camp, Callie Bennett, instructor,
June 23–27, 2014.

"Grand Ambitions: Branson, Krutch, and
Early Twentieth-Century Knoxville Painters." Illustrated
lecture by Stephen Wicks, Knoxville
Museum of Art, June 26, 2014.

"Sunday Spotlights." Gallery tour, June 29, 2014.

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

"Adventures at Ayn Gharandal: The 2013
Season." Illustrated lecture by Erin Darby, UT
Department of Religious Studies, and Robert
Darby, UT School of Art, October 8, 2013.

"Cultural Interaction (and Reaction) in the
Courtly Art of the Hellenistic World." Illustrated
lecture by Kristen Seaman, Kennesaw State
University, November 7, 2013.

"The Neolithic Alepotrypa Cave: Past Findings
and Present Research." Illustrated lecture by
Anastasia Papathansiou, Greek Archaeological
Service, November 19, 2013.

"Research and Practice in Mass Grave
Exhumations: Current International Projects
at the UT Anthropology Research Facility." Illustrated
lecture by Dawnie Steadman, UT,
January 16, 2014.

"North American Antebellum Foodways:
Challenges for Faunal Identifications from
Enslaved African and Euro American Contexts."



CONTRIBUTIONS TO THE McCLUNG MUSEUM

JULY 1, 2013–JUNE 30, 2014

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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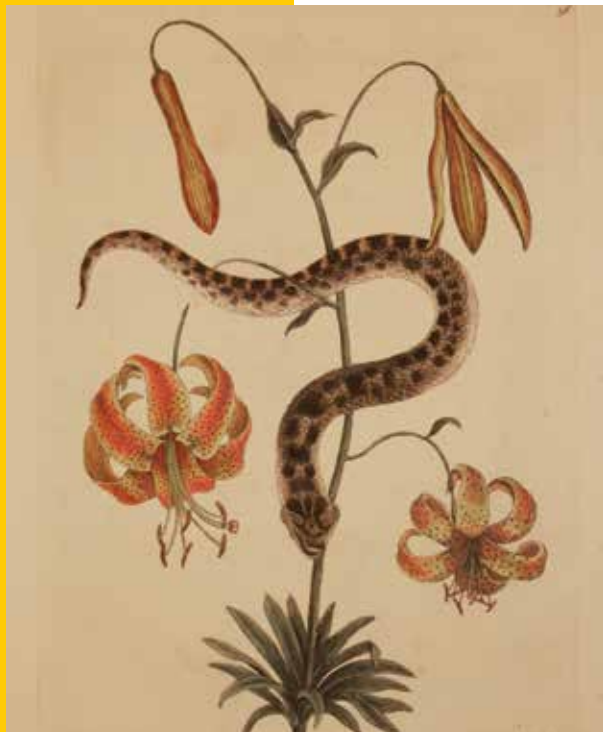
Mr. and Mrs. Richard B.
Bryan Sr.

Mr. C. Howard Capito



The Hog-Nose Snake. Hand-colored engraving by Mark Catesby, London, 1731-1743. Museum purchase, 2014.6.4.

From *The Natural History of Carolina, Florida, and the Bahama Islands*.



Illustrated lecture by Walter Klippel, UT, February 20, 2014.

“Seth, Evil God of Power and Might.” Illustrated lecture by Eugene Cruz-Urbe, Indiana University East, April 17, 2014.

Additions to the Collections

Approximately 6,000 freshwater mollusk specimens and three Lane Scientific cabinets. Transfer from the Tennessee Valley Authority.

Chinese Zhou Dynasty (1045–256 BC) bronze bell. Purchase, Aletha and Clayton Brodine Museum Fund.

Hand-colored engraving of the Manchineel tree by Mark Catesby, *The Natural History of Carolina, Florida, and the Bahama Islands*, London 1731–1743. Gift of Doug Phillips.

Five hand-colored engravings (The

Cutwater; Scarlet Ibis; The Corn Snake; The Hog-Nose Snake; The Small Rattlesnake) by Mark Catesby, *The Natural History of Carolina, Florida, and the Bahama Islands*, London 1731–1743. Purchase, Ardath and Joel E. Rynning Acquisition Fund.

Twenty-one Huari and Chancay textile fragments, spindles, and ceramics from Peru. Gift of Jinx Stapleton Watson.

Chinese Ming Dynasty (AD 1368–1644) fahua ceramic tripod dragon censer. Purchase, Aletha and Clayton Brodine Museum Fund.

Chinese Qing Dynasty (ca. 1750) ancestor portrait. Purchase, Aletha and Clayton Brodine Museum Fund.

Twenty-five objects from the New Guinea Asmat people. Gift of Jane and Joel Buchanan.

Nine antique natural history prints. Gift of Timothy Baumann.

Chinese Ming Dynasty gilt lacquer Buddha with associated prayer scrolls and food offerings. Gift of the Arthur M. Sackler Foundation, New York City.

Ceramic hooded water bottle, Late Mississippian period, ca. AD 1450. Gift of Peter and Suzanne Rasey.

Lakota moccasins, pipe bag, club, and Ojibwa sash. Gift of Jefferson Chapman.

One copper plate engraving from *Description de l’Egypte*, published by Charles Louis Fleury Panchouke, Paris, 1821–1829. Gift of Mr. and Mrs. Mark D. McCormick, Mr. and Mrs. Edward Pylant, and Mr. and Mrs. Mark M. Barnum.

Ivory Gull, octavo edition of John James Audubon’s *The Birds of America*, Philadelphia, 1840–1844. Gift of Patricia K. Larson-Rynning.

Flint handax, Acheulean period, ca. 230,000 years before present. Gift anonymous.

Sphalerite crystals. Gift of Kula C. Misra.

Awards Received

Award of Excellence for Superlative Achievement from the Tennessee Association of Museums: Museum Website Redesign.

Award of Commendation for Superlative Achievement from the Tennessee Association of Museums: Film—*McClung Museum, Celebrating 50 Years* produced by Steve Dean and Doug Mills.

Volunteers

Volunteers are essential to the programs and success of the McClung Museum. This year, eighty-two dedicated volunteers provided a total of 3,746 hours of service in the areas of education, collections, exhibitions, publicity, and board service.

Fahua ceramic censer, Ming Dynasty. Museum purchase, 2014.8.1. Decorative Arts Permanent Collection.



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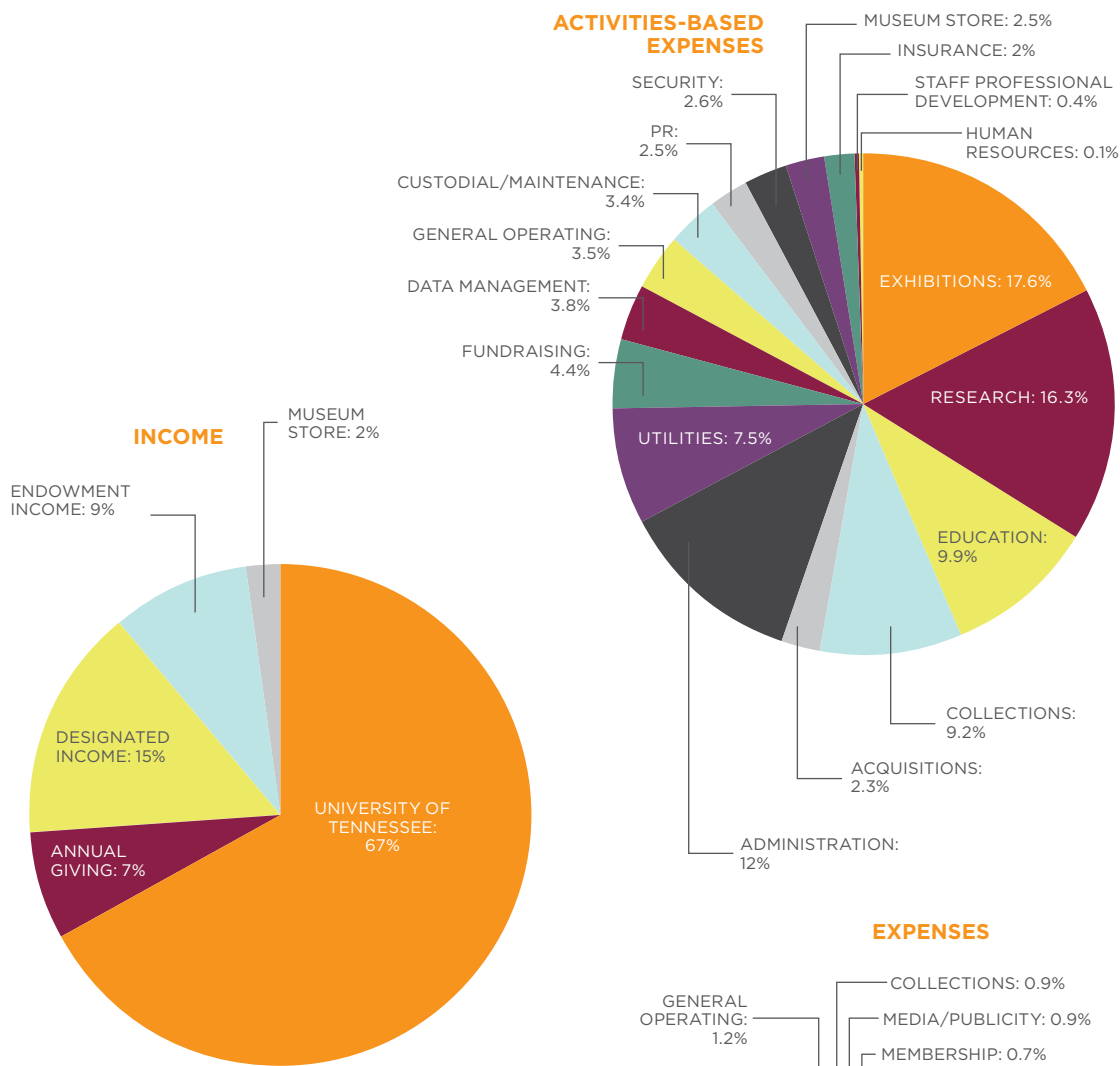
Mr. Don A. Stevens

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Wildcat Cove Foundation

Financial Summary



Endowments

The value of the museum's thirteen endowments as of June 30, 2014, was \$3,812,000.

What Does Private, Non-University Money Support?

- 80 percent of all exhibits
- K-12 programs (lecture series, family days, stroller tours)
- Acquisitions
- 6 Staff Members
- 13 Student Assistants
- 7-day-per-week guard service
- 75 percent of all operating (postage, telephone, travel, publicity, collections care, museum shop inventory, computer services, printing, science bulletins, office supplies)

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research



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ARCHAEOLOGY



Peruvian textile, Chancay, Peru, AD 1000–1450.
From *Archaeology Permanent Collection*.

The year began with Timothy Baumann being hired as the new curator of archaeology, replacing Lynne Sullivan, who retired in 2013. Baumann is a 2001 graduate of UT's anthropology program and worked at the McClung Museum during his doctoral training. With the support of graduate assistant Jessica Dalton-Carriger and several undergraduate volunteers and work study students, Baumann reorganized the lab space, creating new archival storage in the old photography darkroom, a new digital photo studio for documenting artifacts, and a new formal entry into the Archaeology & Paleoethnobotany Laboratory. The latter included a new coat of paint, storage lockers for students and visiting scholars, and a historic photo collage of archaeological field excavations and laboratory research for use in class and visitor tours.

Baumann also spent his first year assessing the current state of preservation and accessibility of the archaeological collections. The result was a priority list to 1) complete the rehabilitation of the archaeological specimens and their associated documents started by the previous curator, 2) properly archive and digitize all associated records, 3) improve collection access through the Internet with searchable databases, object images, and digitized documents, 4) increase the use of collections by UT faculty and students for teaching and research, 5) acquire new lab equipment, and 6) obtain funding and resources to complete these tasks.

The McClung Museum continued to work with TVA and federally recognized tribes to meet the legal requirements of the Native

American Graves Protection and Repatriation Act (NAGPRA) of 1990. In collaboration with UT's Department of Anthropology and the University of Alabama's Office of Archaeological Research, the museum began discussions to create a revised NAGPRA process for TVA collections with clearly defined methods, procedures, and timetables. The only repatriation in 2013 was of human remains and associated funerary objects recovered from the Oak Ridge National Laboratory in Roane County to the Eastern Band of Cherokee Indians (EBCI) for reburial.

The archaeology collection expanded with a small but significant donation of Peruvian artifacts by Jinx Stapleton Watson. This collection consists of pottery vessels from the Huari (Wari) culture (AD 600–1000) as well as textile fragments from the Chancay culture (AD 1000–1450). The Peruvian textiles are highly regarded for their quality of craftsmanship and multicolored beauty. The textile specimens in this donation represent the first prehistoric textiles in the museum's collection.

The History Channel's *America Unearthed* visited the museum in 2013 to highlight the controversial Bat Creek Stone during an episode that aired in January 2014. The Bat Creek Stone was uncovered by the Smithsonian Institution in 1889 during excavations of a prehistoric burial mound in Loudon County, Tennessee, and has been purported by some to be Paleo-Hebrew and a possible link to the Lost Tribes of Israel. Until recently, the McClung Museum had this object on loan from the Smithsonian for a small exhibit that discussed its discovery and legacy as a hoax in American archaeology. The Bat Creek Stone is now on display at the Museum of the Cherokee Indian in Cherokee, North Carolina.

In September, Baumann directed a US Forest Service Passport in Time archaeological excavation in Hoosier National Forest to study ten mysterious stone piles in Perry County, Indiana. This trip was part of the larger German Ridge Heritage Project to examine a nineteenth-century German farming community in southern Indiana for the establishment of a heritage trail and signage. The stone piles were mapped and archaeological testing was conducted on two of them. The results determined that they were

rock caches created as a byproduct of agriculture field clearing and possibly used as foundation stones for the construction of early log homes and barns. No artifacts were recovered, but dendrochronology cores were taken from the trees growing out of or next to each stone pile. Henri D. Grissino-Mayer, director of UT's Laboratory of Tree-Ring Science, and his doctoral student Lauren Stachowiak identified the age of the trees, which dated the stone piles to pre-1880.

Baumann also began two new research projects on McClung Museum collections. The first is examining prehistoric negative painted pottery found in East Tennessee to better understand its use, ritual meaning, and method of manufacture. Negative painted pottery is an extremely rare prehistoric ceramic type that is decorated with a resist painting technique and found primarily in the US Midcontinent during the Mississippian period (AD 1200–1500). A small temporary exhibit on this research is currently on display. The second research project is working with Gary Crites, curator of paleoethnobotany, on domesticated beans (*Phaseolus vulgaris*) recovered from late prehistoric and historic Native American sites in East Tennessee. Beans are known to be the last domesticated plant adopted by prehistoric cultures in the Eastern Woodlands. Crites and Baumann are interested in determining their arrival and dispersal at specific sites in the Tennessee River Valley.

New research requests and current studies by professional scholars and students of the museum's collections have come from academic institutions and government agencies in Alabama, Finland, Germany, Illinois, Mississippi, New York, North Carolina, South Carolina, and Tennessee. For example, Riitta Rainio at the University of Helsinki in Finland came to the McClung Museum to examine 8,000- to 6,000-year-old turkey bones from the Eva site in Benton County, Tennessee, that may have been used as bird calling instruments. Rainio's analysis of these bones was part of a larger archaeoacoustic

project to compare them to similar Neolithic bone tools from Sweden.

Three dissertations/theses were completed and nine others that have used the museum's collections are in progress. Thaddeus Bissett completed his anthropology doctorate at UT in 2014 using materials from the Eva and Big Sandy sites to examine technological variation in projectile point shape and how this may relate to cultural relationships during the Early to Middle Archaic periods (8,000–3,000 BC); Casey Jenkins and Sarah Boncal completed their master's theses at Illinois State University analyzing the McClung Museum's prehistoric human remains; and UT undergraduate Sarah Hall completed an honors thesis on the laterality and handedness of Archaic populations in Tennessee by examining the cross-sectional geometry of metacarpals. In recognition of her scholarship, Hall was awarded the Department of Anthropology's Outstanding Graduating Senior award in 2014. In addition, more than thirty publications and presentations on the archaeology collections and/or by the museum staff were produced.

The museum also received numerous requests from the general public. Most inquiries were for the identification of possible artifacts.

Bone bird-calling instruments, Eva Site, Benton County, Tennessee. Length of bottom specimen, 5.25"
From Archaeology Permanent Collection.



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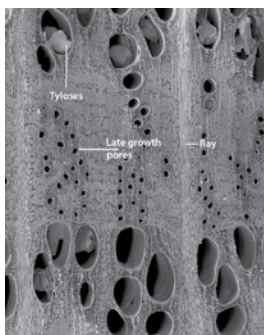
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PALEOETHNOBOTANY

Curator Gary Crites and lab assistant Kirby Trovillo continued to repackage and rehouse catalogued paleoethnobotanical samples from more than 100 archaeological sites. In addition, bulk, unsorted samples have been repackaged and given context catalogue numbers for future sorting. Over the past year, five volunteers (Kimberly Wren, Megan Patterson, Emma Pugmire, Rachel Stillwell, and Christopher



Scanning electron microscope cross section of a 1,900-year-old charred fragment of read oak wood showing major anatomical landmarks used to identify the tree.

Lassen) have been working on botanical inventory and repackaging samples from numerous sites.

Established scholars, student researchers, and educational programmers from UT, other universities, research facilities, and public outreach venues have made use of the McClung's botanical collections, data, and expertise.

Examples include dissertation research by Stephen Carmody (UT anthropology) on the transition from human foraging to food production using Human Behavioral Ecology theory/models; dissertation research by Joanne Ballard (UT paleoecology) on paleoclimate and vegetation change incorporating stable carbon and nitrogen isotope data derived from sediment cores curated at the McClung; and dissertation research by Gabrielle Purcell (UNC-Chapel Hill) into the role gender played in household subsistence behaviors in the immediate pre-contact and post-contact periods in the southern Appalachians.

The paleoethnobotany lab has also prepared samples from late prehistoric sites in middle Tennessee for radiocarbon dating in connection with research being conducted by UT and University of South Carolina faculty and the Tennessee state archaeologist's office/state Division of Archaeology.

Requests for assistance have also come from the University of Wisconsin, Madison, Department of Botany as molecular research was conducted there on the geographic origin of a now extinct subspecies of *Chenopodium*,

an important domesticated food plant in the eastern United States 3,000 years ago. Educational programming at the Natural History Division of the Discover Park of America in Union City, Tennessee, received support from the McClung paleoethnobotany collections in the form of microscope slide-mounted, 3,000 year-old pollen from east Tennessee.

Crites organized a display of maize (by origin and variation) for International Archaeology Day in October 2013. He also provided examples of native "domesticated" plants that evolved from regional "weeds" for a joint McClung Museum and Ijams Nature Center celebration of the natural history of East Tennessee. Crites continues his work on human-plant interrelations and paleoenvironment in the prehistoric Eastern Woodlands and remains a member of UT's Bioactive Natural Products Center of Excellence.

MALACOLOGY

The museum's Paul W. Parmalee Malacology Collection continued to grow last year through the donation of approximately 2,000 specimens representing ninety-nine different species, twenty of which are listed as federally endangered. Donations came from the Tennessee Wildlife Resources Agency, US Fish and Wildlife Service, Tennessee Valley Authority, and from private companies conducting environmental surveys and universities conducting population status and taxonomic investigations. Currently, the collection consists of 5,600 lots representing over 50,000 specimens. There are approximately another 15,000 to 20,000 uncatalogued specimens in the mollusk lab to be processed and added.

The Parmalee collection has material from forty-two states and twenty countries. In all, 300 species of freshwater mussels occur in North America, of which approximately 250 are represented in the collection. Of the 300 species known to occur in North America, 111 species are listed as threatened, endangered, or are considered extinct. The collection has specimens of eighty-eight of these, making it one of the most complete and important collections of freshwater mussels in the world. For this reason, the collection staff is often called upon by state and federal agencies needing to deposit specimens of rare and

protected species and by researchers needing information in support of various environmental endeavors. Last year, the collection was visited by or provided information to the following: Florida Museum of Natural History and Florida Fish and Wildlife Conservation Commission, Arkansas State University, Tennessee and North Carolina offices of the US Fish and Wildlife Service, Appalachian State University, Georgia Department of Natural Resources, US Army Corps of Engineers, Tennessee Department of Transportation, Alabama Aquatic Biodiversity Center, The Nature Conservancy, and the National Park Service.

In December 2013, curator Dinkins and graduate assistant Matthew Reed hosted the twenty-sixth annual Tennessee Endangered Mollusk Committee meeting at UT, followed by a social gathering and tour of the Parmalee collection. The two-day meeting was attended by fifty people from across the Southeast who are involved with research on Tennessee freshwater mollusks and included nineteen platform presentations and several oral reports by committee members. Reed gave a presentation on the status and distribution of mussels in the Buffalo River system in Tennessee, and Dinkins gave a presentation on the updated list of mussel species occurring in Tennessee based on recent taxonomic advances. In May 2014, Reed completed his research and graduated with a MS in wildlife and fisheries science. He is currently preparing his thesis for publication and is working as a biologist with the TVA.

Dinkins, with assistance from Hugh Faust, a longtime and important contributor to the Parmalee collection, recently completed a survey for freshwater mussels in a remote sixteen-mile section of the Obed River and the lower reaches of Clear Creek and Daddys Creek for the National Park Service. The goal was to determine the status of native freshwater mussels within the Obed Wild and Scenic River Unit (OBRI) in general and to determine if the federally endangered Purple Bean mussel (*Villosa perpurpurea*) is still extant within waters of the OBRI.

The survey team found native mussel species to be localized and rare within the Obed River, and discovered a previously unknown population of the Purple Bean in Clear Creek, a large direct tributary to the Obed. Further survey efforts are being discussed with NPS,



and genetic testing of individuals from this population is being conducted by researchers from Virginia Tech University.

Within UT, the collection staff became involved in several graduate research projects. Dinkins identified land and aquatic snail specimens from a rock shelter on the Cumberland Plateau for Meagan Dennison, a graduate student in anthropology, as part of her MS thesis research. Dinkins also identified archeological specimens of freshwater mussels from the Cumberland River for Matthew Kerr, a PhD candidate in geography working on a collaborative research project funded through UT's Initiative for Quaternary Paleoclimate Research. The Parmalee collection also provided bones of passenger pigeons to Lydia Carmody, graduate student in anthropology, for her research on an early Mississippian site in Northeast Arkansas where passenger pigeons had been previously noted.

Finally, Dinkins co-taught a graduate level course on freshwater malacology with Michael McKinney, director of the Environmental Studies Program and professor of earth and planetary sciences. The spring semester course covered numerous topics including taxonomy, systematics, ecology, collection, and regulatory aspects associated with state and federally protected species. It was the first time a course in freshwater malacology has been offered at UT since the early 1990s, when it was taught by the late Paul Parmalee.



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GENERAL COLLECTIONS

This year saw a transition in staff managing the general collection as longtime registrar Bob Pennington retired in March 2014 and new registrar Shannon Perry began her tenure in June. Throughout the year, however, inventory, digitization, and cataloguing continued with the assistance of part-time staff member Donna McCarthy and graduate assistants Madeline James and Catherine Pepmiller.

McCarthy spent most of her time researching the museum's large decorative arts collections. Using recent publications unavailable to the original catalogers, and with the large number of collectors' and auction sites now available online, she was able to identify more than 100 previously unknown or unidentified manufacturers of late nineteenth- and early twentieth-century pieces of earthenware, glass, and silver. As one might imagine, this process revealed some true gems hidden among the boxes and shelves in museum storage.

James diligently catalogued and digitized several recent museum acquisitions, such as the gilt lacquer Buddha, lithographs from Europe and America, and artifacts from Peru and Papua New Guinea. She has recently taken on a new project, to reorganize the McClung's past

exhibition files in order to update information in the collection database and make prior exhibition research more accessible to staff.

Lindsay Kromer, media productions coordinator, with student assistance from Laura Frizzell, has focused on the enormous task of editing, organizing, and scanning the thousands of slides, color transparencies, and photographs that span the last fifty years.

Pepmiller provided valuable assistance to Curator Catherine Shteynberg by organizing research on artists and artworks that became a part of the summer temporary exhibition *The Collector's Eye: American and European Art from the McClung Museum*, which was on view June through August 2014. She also catalogued photographs and historical documents from the museum's *Louis B. and Eleanor Deane Swan Audigier Collection*. Intern Christine Johnson worked closely with Shteynberg on research for the fall 2014 exhibition *Birds, Bugs, and Blooms: Natural History Illustration from the 1500s–1800s*.

Since joining the museum staff in June, Perry has been working to develop a unified filing system for paper records on collection objects and a user's manual and standards for the museum's collection database. She has also been updating digital records on the museum's extensive collection of nature prints, including works by John James Audubon, Mark Catesby, John Gould, and Alexander Wilson.



Left: Crown Milano, c. 1890. Mt Washington Glass, New Bedford, Massachusetts. Bequest of Judge John Webb Green and Ellen McClung Green, 1957.3.96.
Below: Asmat bone dagger, New Guinea. Gift of Jane and Joel Buchannan, 2014.3.7.



PUBLICATIONS, PAPERS & RESEARCH REPORTS

MALACOLOGY

Dinkins, Gerald R. "Protected Aquatic Species Survey Report. Tributaries to the Altamaha River. EDS-545 (23),(24),(25),(26) Appling and Toombs Counties. PI Nos. 522220, 522180, 522190, 522200 March 2013." Report to the Georgia Department of Transportation, Atlanta, Georgia, March 2013.

———. "Ecological Characteristics of Flat Fork and Winchester Branch in the Vicinity of the Morgan County Correctional Complex, Morgan County, Tennessee." Report to EnSafe, Inc. and the Tennessee Department of Corrections, Nashville, Tennessee, October 2013.

———. "Survey for Freshwater Mussels in the Nolichucky River in the Vicinity of the Proposed Discharge Location for the US Nitrogen Plant." Report to EnSafe, Inc., Nashville, Tennessee, December 2013.

———. "Survey for Freshwater Mussels in the Nolichucky River in the Vicinity of Alternate Location 2 for the Proposed Discharge Location for the US Nitrogen Plant." Report to EnSafe, Inc., Nashville, Tennessee, December 2013.

———. "Survey for Native Mussels at Five Stream Crossings in Fink Creek, Lewis County, West Virginia." Report to Environment & Archaeology, LLC, Clarksburg, West Virginia, July 2013.

———. "Survey for Freshwater Mussels in the Cumberland River in the Vicinity of the Former Hartsville Nuclear Plant Site, Trousdale/Smith County, Tennessee." Report to Four Lake Regional Industrial Development Authority, Hartsville, Tennessee, October 2013.

———. "Chattahoochee River Mussel Survey, North Highlands Dam Tailrace." Report to Georgia Power, Atlanta, Georgia, July 2013.

———. "Assessment of Endangered Freshwater Snails in Choccolocco Creek at the Former 4-Inch Pipeline Crossings, Talladega County, Alabama." Report to Kinder Morgan/Southern Natural Gas, Birmingham, Alabama, November 2013.

———. "Survey for Freshwater Mussels in the Ohio River in the Vicinity of the Phyllis W. Smale Riverfront Park, Cincinnati, Ohio." Report to Power Engineers, Inc. and the City of Cincinnati, Ohio, September 2013.

———. "Rediscovery of the Federally Endangered Alabama Lampmussel (*Lampsilis virescens*) in

Tennessee." Presentation at the Science Forum, University of Tennessee, Knoxville, November 1, 2013

———. "Provenance and Disposition of Figured Specimens in The Freshwater Mussels of Tennessee with an Update on Mussel Species Listed Therein Based on Recent Taxonomic Determinations." Presentation, 26th Annual Meeting of the Tennessee Endangered Mollusk Committee, University of Tennessee, Knoxville, December 10–11, 2013.

PALEOETHNOBOTANY

Kimball, Larry R., Whyte, Thomas R., Crites, Gary D. "Biltmore Mound and the Appalachian Hopewell." In *Early and Middle Woodland Landscapes of the Southeast*. Edited by Alice P. Wright and Edward R. Henry. Florida Museum of Natural History Ripley P. Bullen Series. University Press of Florida, Gainesville, Florida, pp. 122-137. October 2013.

———. "Biltmore Mound and the Appalachian Summit." Paper presentation, Cherokee Archaeological Symposium, Cherokee, North Carolina, 2013.

Kimball, Larry R., Whyte, Thomas R., Crites, Gary D., Johnson, D. "Ritual and Sacred Landscape at the Biltmore Mound." Paper presentation, Cherokee Archaeological Symposium, Cherokee, North Carolina, 2013.

ARCHAEOLOGY

Baumann, Timothy "The Adonis of Newburgh: Fluorite and Calcite Crafting and Use at Angel Mounds." Invited lecture, Mound City Archaeology Lecture Series, Missouri History Museum, St. Louis, Missouri, October, 2, 2013.

———. "Archaeology and the Native Peoples of Tennessee: An Exhibit at the McClung Museum of Natural History & Culture." Presentation, 3rd Annual Cherokee Archaeology Symposium, Cherokee, North Carolina, October 24–25, 2013.

———. "Sun Circles and Science: Negative Painted Pottery from Angel Mounds (12Vg1)." *Midcontinental Journal of Archaeology*, 38(2):219–244.

———. "Archaeology and the Law in Tennessee." Invited lecture, US Attorney's Office, Eastern District of Tennessee, Knoxville, Tennessee, November 13, 2013.

———. "Hidden in Plain Sight: a Tornadoic Discovery of Enslaved African American Life in Missouri's Little Dixie." Paper presentation, Society for



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PUBLICATIONS, PAPERS & RESEARCH REPORTS

Historical Archaeology's 47th Annual Conference on Historical and Underwater Archaeology, Quebec, Canada, January 8–12, 2014.

Baumann, Timothy, McCullough, Robert, and Altizer, Valerie. "Archaeological Investigation of the Maier–Speidel Farmstead (12Pe986) on German Ridge in Hoosier National Forest, Perry County, Indiana." Investigation report, Glenn A. Black Laboratory of Archaeology, Indiana University, Bloomington, Indiana.

Baumann, Timothy, McCullough, Robert, Altizer, Valerie, Alvey, Heather, Tolbert, Jeff, Krieger, Angie. "The German Ridge Heritage Project in Hoosier National Forest: Excavations at the Maier-Speidel Farmstead." Paper presentation, 59th Annual Meeting of the Midwest Archaeological Conference in Columbus, Ohio, October 24–27, 2013.

Baumann, Timothy, Monaghan, G. William, Krieger, Angie, Herrmann, Edward. "The German Ridge Heritage Project in the Hoosier National Forest of Southern Indiana." Paper presentation, 79th Annual Meeting of the Society for American Archaeology in Austin, Texas, April 23–27, 2014.

Monaghan, George, Schilling, Timothy, Krus, Anthony, Wilson, Jeremy, Baumann, Timothy. "Late Prehistoric Paleodemographic Trends in the Midcontinent North America Reconstructed through Multiple Proxies from Angel Mounds." Poster presentation, 79th Annual Meeting of the Society for American Archaeology, Austin, Texas, April 23–27, 2014.

Chapman, Jefferson. *Tellico Archaeology: 12,000 Years of Native American History, Third Edition*. The University of Tennessee Press, Knoxville, Tennessee, 2014.

CIVIL WAR

Markel, Joan L. *Knoxville in the Civil War*. Arcadia Press, Charleston, 2013.

———. "Knoxville—A Near Death Experience." *Hallowed Ground*, membership magazine of the Civil War Trust, pp. 28–35, Fall 2013.

———. "Knoxville in the Civil War." *Everything Knoxville*, p. 55, November 2013.

———. "The Battle of Fort Sanders." *New York Times*, December 3, 2013, opinionator.blogs.nytimes.com/author/joan-markel.

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McClung Museum of Natural History & Culture

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ACADEMIC PROGRAMS AT MCCLUNG
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WHAT'S ON DISPLAY?



RESEARCH @ MCCLUNG



EDUCATION



McClung Museum on the Web

During the 2013–14 fiscal year, the museum continued to reap the benefits of the newly designed website, which was launched in May 2013. As compared to the previous fiscal year, the museum saw website sessions increase by 7 percent (96,665), unique website users increase by 3 percent (77,655), overall page views increase by 23 percent (223,532), pages per session increase by 15 percent (2.31 pages/visit), and average session duration increase by 22 percent (1:47 min.). Smartphones continue to drive a tremendous amount of the website's traffic, with a 116 percent increase (15,306 visits, or about 16 percent of all the museum's web traffic) in mobile visits since the previous fiscal year. Overall, these numbers indicate greater overall website visitor satisfaction.

The museum continues to use Facebook, Twitter, Instagram, and YouTube as important social channels to communicate with supporters and community members both on and off campus. To date, the museum has 2,432 Facebook and 1,449 Twitter followers—a 20 percent and 30 percent respective increase from the previous fiscal year. Facebook and Twitter, as well as local blogs such as *Family Friendly Knoxville* and UT's *Tennessee Today*, continue to be important sources of website traffic, helping visitors learn more about museum events and activities.

Education Programs

If there is a slogan that could apply to the museum's public programs, it would be "Something for everyone." From welcoming toddlers and their families to preschoolers, K–12 students, college and university students, and adults of all ages, our programs are many and varied. They take place here at the museum as well as at many other venues, and thanks to our members and sponsors, almost all of them are free.

This fiscal year, 8,349 visitors participated in programs at the museum (this does not include events organized by other campus organizations that took place at the museum) and 3,304 attended outreach programs conducted by museum staff. The total of 11,653 represents an increase of 14.5 percent over total participation last year, summarized by audience as follows:

- University (UT and other colleges): twenty-three separate classes, 679 students (these are classes coming specifically for organized exhibit and collection programs, not classes held in the auditorium)
- PreK–12 students: ninety-five groups, 5,864 students
- Families: twenty events, 1,267 individuals
- Lectures, tours for adults: sixty-six events, 3,827 individuals

Highlights included a fourth consecutive year of popular Civil War lectures presented or organized by Civil War curator Joan Markel; three fiftieth-anniversary lectures; several exhibition-related lectures; and well attended monthly family programs, including Can You Dig It—the museum's celebration of International Archaeology Day—and National Fossil Day. The success of family programs was due largely to the September arrival of Heather Fritts, our new family programs coordinator. In its sixth year, the Beaumont Museum Magnet Program requested outreach activities as well as learning expeditions to the museum. Three archaeology and fossil camps were held in June and July. New summer programs included Sunday gallery tours and Talking Pictures—short films relating to *The Collector's Eye* exhibit.

Regarding content, Civil War programming drew more attendance than any other with the combination of the Civil War lecture series in the spring and Markel's busy outreach

schedule. Most of the audience for these presentations was adults. K–12 groups participated in more programs in the *Archaeology and Native Peoples of Tennessee* exhibit (29 percent), followed by *Geology and the Fossil History of Tennessee* (22 percent), *Ancient Egypt* (16 percent), and *The Decorative Experience* (10 percent). Of the four temporary exhibitions, *Glass of the Ancient Mediterranean* drew the most K–12 attendance, with 38 percent of its time slot visitation. Sixth-graders were the most numerous grade in attendance.



K–12 groups came from twelve counties in East Tennessee with Knox County public and private schools accounting for 42 percent of the total. Blount, Sevier, Anderson, and Loudon counties accounted for most of the remainder. Two groups came from North Carolina, and one group from Kentucky and Georgia each participated in programs.

Family programs attendance continued to grow (1,267) with twelve Stroller Tours counting 238 individuals and Family Fun Days attendance measuring 1,029. The latter included seven Saturday programs and Can You Dig It on a Sunday in October, which drew 408 adults and children.

Twenty-three volunteers worked in education programs during the year, which included students from the Departments of Anthropology and Earth and Planetary Sciences as well as community volunteers. Additionally, thirty-six faculty, students, staff of the Archaeological Research Laboratory, and members of the East Tennessee Society of Archaeological Institute of America worked at Can You Dig It.



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