INTRODUCTION
The Michigan State University Collections Council

Founded in 1988, the Michigan State University Collections Council comprises all of the directors, curators, and collection managers on campus. The UCC serves as an Administrative Advisory Committee to the Offices of the Provost and the Vice President for Research and Graduate Studies on existing and proposed policies and procedures that affect the development, preservation, and use of collections. The council encourages professional stewardship of collections and promotes the use of collections through publications such as the Michigan State University Collections Guide and statewide and national directories of collection resources and links all collections on the MSU website. The Michigan State University Collections Guide was published in 1994 and is now out-of-print. An on-line version is available at the MSU web site.

The Co-Chairs of the University Collections Council are: Dr. Susan J. Bandes, Director, Kresge Art Museum, and Dr. C. Kurt Dewhurst, Director, Michigan State University Museum.

MSU Collections

Michigan State University maintains a rich array of valuable collections for research, teaching, and outreach & engagement. These collections, housed in campus museums, libraries, and departments, are used by MSU faculty, students, and visiting scholars from around the world. The collections serve a central role in providing faculty resources for scholarly research activity as well as for teaching.

COLLECTIONS ACTIVITIES FOR 2006-2007
This small sample was chosen to show the range of activities across campus. Each unit has available more comprehensive summaries of their collections-based activities.

Collections: Notable accessions/deaccessions (collection growth)

A.J. Cook Arthropod Research Collection:
1) A Collection of Bark and Ambrosia Beetles (Curculionidae: Scolytinae) from Stephen L. Wood. This material consists of approximately 5,000 specimens comprising 1,000 species, which represents unmounted material from his 1982 and upcoming monographs on bark beetles of North, Central, and South America. This will provide invaluable reference material for identifications and will supplement Dr. Anthony Cognato’s taxonomic research on Scolytine. 2) In July 2007, we will acquire the John Perona collection of 10,000 Lepidoptera and other insects. Mr. Perona collected these insects over a 30+ year period from the Calumet area of the Upper Peninsula of Michigan, an area of the state that is poorly represented in most insect collections, including the ARC. This collection will add significantly to records of species from that region and contains many unique specimens. The acquisition of this collection was made possible by the Michigan Entomological Society, which purchased the collection from Mr. Perona, and
has donated it to Arthropod Research Collection where it can be cared for and made available for scientific study.

**W.J. Beal Botanical Garden and Campus Arboretum:**
The entire collection is composed of 28,820 accessions including several threatened and endangered species. This includes 21,751 living plant records for a total of 39,640 individual plants currently tracked in the W.J. Beal Botanical Garden and Campus Arboretum database on campus. A total of 1648 accessions were added in 2006; 481 accessions have been added so far in 2007. Most noted accession was of two specimens of the rare and endangered Wollemi pines (*Wollemia nobilis*), a new genus and species in the family Araucariaceae, discovered in Australia on September 10, 1994. These plants will be added to the Non-Flowering Vascular Plant Collection. Development of the Walk Across America Collection of conifers along the Trowbridge Extension (between the road and CN railroad tracks) is progressing and we hope to initiate planting beginning in the fall of ’07.

**Herbarium:**
The MSU Herbarium continues to accession the international important southern hemisphere lichen collections of Henry Imshaug and co-workers that have been in storage since they were collected between 1968 and 1972. These collections, from such places as The Falkland Islands, Tierra del Fuego, Isles Kerguelen, Campbell Island and The Auckland Islands (both New Zealand), represent the largest and most significant collections from these places in any herbarium world-wide and contain numerous undescribed species. The label data from all accessioned lichen collections has now been entered into a database and is available on-line via the Herbarium’s web-site [http://www.herbarium.msu.edu/](http://www.herbarium.msu.edu/) and GBIF [http://www.gbif.org/](http://www.gbif.org/). We have also received an almost complete set (275 collections) of the exsiccati set *Lichenes minus cogniti*, distributed by H. Kashiwadani (Tokyo). Other notable accessions are the collections (vascular plants, fungi, bryophytes, Lichens) of the late Dr. John Churchill (Tennessee), as well as vascular plant exchange collections from various U.S. states, as well as Costa Rica and Mexico.

**Invertebrate Zoology Collections:**
The T. Wayne Porter Collection was given to the Zoology Department by the Kellogg Biological Station. This collection includes several lots of freshwater mussels collected from several rivers and some lakes in Southern Michigan in the 1950s, 60s and 70s as well as freshwater and terrestrial gastropods and several lots of spiders. In addition several small collections of terrestrial gastropods and freshwater leeches have been accessioned.

**Kresge Art Museum:**
The collection expanded by over 110 objects including paintings, sculpture, decorative arts, prints and photographs. Among the most notable Chinese acquisitions are the Tiger Pillow, dated to 1160 A.D., and a mid-19th century *Portrait of a Scholar in a Landscape*, a painted portrait of (MSU) Dr. Anthony Koo’s grandfather, who was an illustrious statesman. Other significant additions include: Iconic photographs by Marion Post
Wolcott, Edward Weston, Yousef Karsh, and Helen Levitt; Old Master prints (7), 19th
century prints by Max Klinger (portfolio) and Suzanne Valadon; 20th century prints by
Philip Guston, John Sloan, Benton Spruance, and Harry Bertoia; and modern paintings by
Stanley Boxer, Paul Resika, and Pat de Groot. Mid-century ceramics include examples
by: Ruth Duckworth, Russel Wright, Rockwell Kent, Claire Leighton, and Adolf Dehn.
Sculptures and paintings by former MSU faculty members Leonard Jungwirth, Howard
Church, Charles Pollock, Nan Stackhouse, and James McConnell; and two sculptures by
well-known MSU alumnus Italo Scanga. Additionally, we received a donation of 8
Eskimo sculptures from the Janet Hill estate. The transfer of 15 Etruscan, Greek and
Persian works of art from the Department of Human Environment and Design that were
on long-term loan to KAM, was completed. One hundred prints slated for deaccessioning
in 2003 are being sold on EBAY by MSU Salvage this summer.

Over 175 works of art from the collection were featured in exhibitions this year (70
pieces in The Workers’ Landscape: American Images, 1900-1950; Ewing Galloway (55
photographs); Circus banners (20 pieces in adjunct show); works on paper exhibitions
(Sorrow Unmasked, 12), Contemporary Arctic Expressions: Inuit Prints from the Kresge
Art Museum Collection (15 prints).

MSU Museum:
The MSU Museum’s natural history collections expanded this year with the addition of
rare Australian mammals and herps donated by B.E. Horner; a series of Great Lakes
carnivores (bobcats, fishers, otters, pine martins, and wolves) donated by the Michigan
DNR; known-age spotted hyenas from Dr. Kay Holekamp’s long-term study in Kenya;
an ontogenetic series of coyotes donated by the U.S. Fish and Wildlife Service; over 200
North American birds obtained from U.S. salvage projects; raptors from the MSU
Veterinary Wildlife Center; a series of herpetology fossils contributed by colleagues of
the late Dr. J. Alan Holman; endangered species of fishes, reptiles, and mammals donated
by the Detroit Zoo; and shark crania donated by the National Oceanic and Atmospheric
Administration and the Natal Sharks Board, South Africa.

The cultural collections of the museum grew with the addition of historic costume dolls
made by the WPA for Michigan State College; 19th and 20th century dishes from MSU
Human Environment and Design; Alaskan Inuit ivory and bone carvings and dolls from
the estate of Janet Hill; 190 almanacs spanning a time period of 110 years; over 100
pieces of decorative ceramics and thousands of Christmas ornaments from John Currie;
Mexican masks from Gloria and David Thomas; textiles made by contemporary South
African artists; a Persian carpet and, from Oman, a 19th century Martini-Henry rifle and
Jambiya dagger donated by David Green; approximately 200 drawings of stained glass
windows and 22 actual pieces of stained glass of the Detroit Stained Glass Works from
Henry E. Bellaimey; and 23 mint condition, antique quilts donated by Kitty Clark Cole.
As a result of an ongoing research project coordinated by LuAnne Kozma’s 4-H history
materials from former 4-Hers and interviews with former 4-H staff were added to the
collections, and, as a result of the ongoing “Carriers of Culture: native Basket Traditions”
research project coordinated by Drs. MacDowell and Dewhurst, examples of work of
outstanding Native American artists were added.
Care of Collections

A.J. Cook Arthropod Research Collection:
The Coleoptera (beetle) collection (~10,000 species) is being completely inventoried with the aim of placing all species holdings into a web accessible and searchable database. Within the next few years we hope to have the entire collection holdings up on the web. This will inform researchers and others of our holdings and should facilitate and increase our loans and visitations. Parts of the Coleoptera collection are undergoing active curation consisting of upgrading species nomenclature (prior to placement in the taxonomic database), and re-housing the specimens in new foam-bottom pinning trays and new drawers where necessary. The existing insect storage cabinets are at full capacity and space for expansion of the existing collection during curation is a problem, which we hope to begin to alleviate through application for an NSF-BRC improvement grant.

Apparel & Textile Design Historic Collection:
The HED Historic Collection was successfully moved to the UPLA Building. Most of the collection has been installed on new hanging racks with new padded hangers. A computer cataloguing system has been initiated. Martha Brownscombe and Marie Gile have been working as collections managers; a number of independent study students, supervised by Martha and Marie, helped with the care of the collection and learned valuable skills as well.

W.J. Beal Botanical Garden and Campus Aboretum:
Over the course of the past three years, collections care within the W.J. Beal Botanical Garden has suffered from both the loss of the Collections Manager’s position. It has become evident to the Curator (Dr. Frank W. Telewski, Professor, Dept. of Plant Biology/Office of Campus Planning and Administration) that the living collections of the W.J. Beal Botanical Garden can not be sustained without a Collections Manager or Plant Recorder to verify and replace missing plants in the garden. The Curator requests the return of the Collections Manager’s position now that reorganization has removed the curatorial staff from the Grounds Department and the entire Botanical Garden staff is now located within the Office of Campus Planning and Administration.

The intense construction schedule of 2006-07 on campus has posed a significant threat to a number of campus trees. The Curator spent many hours working with the Campus Arborist to evaluate trees and determine which should be saved, protected or moved. One significant specimen of Platycladus orientalis (L.f.) Franco was successfully moved using a new bare root method during the construction work at Snyder-Phillips Hall. Unfortunately several specimens of Catalpa speciosa (Warde ex Barney) Engelm. were lost due to construction on the south side of Snyder-Phillips. Construction along the Wilson Road corridor will result in the loss of several trees including large specimens of Quercus robur L., the English Oak. Fortunately, this is a relatively common tree in the campus collection.
The most recent development regarding the construction of a new Art Museum has threatened the only existing Osage orange tree (*Maclura pomifera* (Raf.) Schneid.) on campus. Over 300 students each semester use this tree in their classes and the curator is fighting to save this tree. The planting of any new trees would require a minimum of 10 to 15 years to reach a level of maturity by which any tree would be useful to the teaching programs.

Exotic invasive pests continue to threaten campus trees. The most recent example (as of July 18, 2007) is the exotic horntail wood wasp, *Sirex noctilio*, which was recently captured in a trap in Macomb County. The larvae of this insect feed in stressed, dying or recently killed pine trees. Like many other wood-boring insects, it probably came to North America in solid wood packing material and it was likely present for several years before it was discovered. Similar to the recent invasion of campus by the Emerald Ash Borer, additional resources maybe required to address this new exotic pest. An evaluation will be conducted in the coming months.

In the Fall of ’06 the garden began an experiment using a soil parasite which has been shown by an MSU entomologist to kill Japanese beetle larvae. If successful, this could lead to a reduction in chemical treatment for grubs across campus including the Forest Akers Golf Course.

**Florence G. Wallace Conservation Lab, MSU Libraries:**

The Wallace Conservation Lab continues to work on the Save America’s Treasures grant which began in November 2005 and will be completed in February 2008. Out of the 1,500 books which were to be surveyed, deacidified, and/or boxed, the following have been completed: all 1,500 have been surveyed; 722 have been sent out for commercial deacidification; 321 have had boxes made for them. The main component of the project, individual conservation treatments, has also been proceeding along with the other activities. In all, nearly 300 books are complete and back on the shelf. The majority of the others are somewhere in the treatment process.

**Herbarium:**

Now that the lichen collection is completely databased, the MSU herbarium has carried out an estimated count of the rest of their collections (vascular plants, ferns, bryophytes, non-lichenized fungi, algae) by counting approximately 20% of the collection (5 shelves in each cabinet), and extrapolating the result. The result for the vascular plant collection was:

<table>
<thead>
<tr>
<th>Region</th>
<th>No. of Collections</th>
</tr>
</thead>
<tbody>
<tr>
<td>North America (except Michigan)</td>
<td>147,824</td>
</tr>
<tr>
<td>Michigan</td>
<td>63,028</td>
</tr>
<tr>
<td>Mexico</td>
<td>34,061</td>
</tr>
<tr>
<td>Latin America</td>
<td>15,774</td>
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</tr>
<tr>
<td>Rest of the World</td>
<td>30,177</td>
</tr>
<tr>
<td>Cultivated</td>
<td>8,478</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>300,134</strong></td>
</tr>
</tbody>
</table>

We are also going through our older collections and remounting those not on acid-free paper. We are also separating those collections that are mounted more than one to a sheet and remounting them on separate herbarium sheets. All multiple-specimen sheets are photographed before they are separated and the images will be linked to the appropriate label data in our database and made available on-line.

**Invertebrate Zoology Collections:**
The process of cataloging the collections has been continued along with transferring ‘wet’ specimens from formalin preservation to alcohol.

**Kresge Art Museum:**
The Chinese mid-19th century painting, Portrait of a Scholar in a Landscape, is undergoing conservation treatment (paid for by the donors) to have minor staining and losses repaired and to be converted to its original format as a hanging scroll. Two prints that have been in the Art in the 'Toon Age circulating exhibition were treated for mold, and three Thomas Hart Benton prints were treated in advance of the American Images exhibition in the winter. Barbara Heller, head conservator at the Detroit Institute of Arts Conservation Laboratory, updated the conservation assessment of the collection done ten years ago. By the end of August 2007, the searchable collection database (Io) will be available on the museum’s website.

**MSU Museum:**
A grant of $51,565 from the Institute of Museum and Library Services (IMLS) was used to move and re-house MSU Museum fossils and fluid-preserved specimens, including the Red Cedar River Fish Collection.

A grant of $81,755 from the IMLS is being used to purchase new cabinets and archival supplies for the MSU Museum Mammal Collection.

A grant of $149,806 from the IMLS is being used to complete critical database activities and upgrade technological infrastructure in the MSU Museum’s History and Mammal Collections.

The MSU Museum’s vertebrate collections data provider was upgraded; our *Specify* database records are web searchable via the Global Biodiversity Information Facility (GBIF), National Biological Information Infrastructure (NBII), Herpetological Collections Database Network (HerpNET), Mammal Networked Information System (MaNIS), and Ornithological Information System (ORNIS).

A grant of $125,475 from the IMLS was used to rehouse the archaeology collections into new cabinetry, using inert storage materials. An archaeology conservator reviewed the collection and provided training to staff and students.
A new grant of $150,000 from the IMLS is being used to rehouse the doll collection, paper materials, and the sewing and handwork collection. The “Kids Curate” public education component involved two 5th grade classes from East Lansing Schools.

Funded by a multi-year $499,000 IMLS grant, work continued on the Michigan Quilt Project archives in preparation for ingestion into The Quilt Index.

University Archives & Historical Collections:
The following collections have been processed this year, making them now readily available to researchers for use.

Records of the Chemistry Department include letterpress correspondence from Robert C. Kedzie and Frank Kedzie relating to the department, analysis of materials, and sugar beets. The collection also contains department information including files on the construction of chemistry buildings, photographs, as well as Alpha Chi Sigma materials.

The Animal Science Department records include County Extension Agents reports, MSU livestock judging teams, Michigan Sheep Breeders Association, Northern Beef Demonstration Center, and MSU cattle and sheep herds and photographs.

The Claud R. Erickson papers are 7 cu. ft. of Erickson's research materials dealing with the electric car. The collection spans the years 1943-1969.

The Walter Neller Family papers comprise 6.6 cu. ft. of scrapbooks and focus on the achievements of the Neller Family, highlighting the family’s social life in Lansing and East Lansing, as well as information on the R.E. Olds Museum and the real estate business in Lansing and East Lansing.

Facilities upgrades

A.J. Cook Arthropod Research Collection:
Two rooms in Natural Science totaling 1750 sq.ft. have been added to the collection space. These are slated to hold the Coleoptera (room 450) and Diptera (room 451) collections once new cabinets and drawers can be acquired. The University has agreed to cover the costs of renovating these rooms if NSF grants the requested improvement funds. Room 451 also provides desk/office space for our 4 adjunct curators.

Apparel & Textile Design Historic Collection:
The new facilities are temperature-controlled. The collection benefits from having a larger space so that conditions are not as cramped.

W.J. Beal Botanical Garden and Campus Arboretum:
The roof to the garden shed was replaced later in the Summer ’06. The Gordon Adams Memorial Shade Arbor is in need of repair due to wood decay. The irrigation system requires continued repairs and maintenance. This has been particularly troublesome this year with dry periods leading to the loss of some recently planted accessions in the garden.

Florence G. Wallace Conservation Lab, MSU Libraries:
The lab purchased some new equipment through a recent donation. Equipment included a new, hi-tech paper cutter, and a mobile table for the ultrasonic encapsulator, which makes its use much more efficient.

Invertebrate Zoology Collections:
Along with the Porter Collection, the Kellogg Biological Station donated two wooden drawer cabinets in excellent condition.

Kresge Art Museum:
Because the collection has outgrown the available storage in the museum, staff inspected several off-site storage locations in the area and choose Two Men and A Truck’s new secure, climate controlled storage site in Lansing. Starting this spring, we have placed some objects including (temporarily) the crated 1960s collection exhibition until it’s final venue next fall.

MSU Museum:
With funding from the MSU Office of Space Utilization, a new storage room in the Cultural Resource Center is being renovated for storage of the furniture collection. An HVAC system and new windows have been installed, and SpaceSaver compact storage units will be installed during summer 2007. The furniture collection will be moved in summer 2007, vacating space in the MSU football stadium.

With funding from the College of Social Science, renovation of McDonel Hall Rooms C106 and A106 were completed during 2006-2007. This included the upgrading of sinks, cabinets and lighting in A106, and the complete upgrade of C106 for teaching and collections storage including new cabinetry, smart board, and tech cart.

University Archives & Historical Collections:
A new electronic security system was installed in all of facilities on campus.

Collaborations: On and off campus
On campus:

A.J. Cook Arthropod Research Collection:
The ARC continues as the focal point of the Department of Entomology and serves as a repository for scientific vouchers and a resource for data concerning insect biodiversity.
Apparel & Textile Design Historic Collection:
The Student Apparel Design Association sponsored a Historic Ball in spring semester as a fund-raiser for the existing Jackson-Bloss Endowment. Approximately $1,000 was contributed by attendees and others. We hope to sponsor this activity as an annual event. Carol Beard, advisor to SADA, deserves tremendous credit for initiating the concept and for its success. Historic garments from the collection were displayed in the MSU Union Ballroom for the benefit of the attendees.

W.J. Beal Botanical Garden and Campus Arboretum:
The garden collections and campus arboretum are utilized by numerous courses in Plant Biology, Horticulture, Forestry, Entomology, Crop and Soil Sciences, Landscape Architecture, and Art. Collecting permits are issued by the Curator to students, staff, and faculty to facilitate collection and use of plant material grown on campus.

The Curator is collaborating with Dr. Deb McCullough, Dept. of Entomology on research on the biology of the Emerald Ash Borer. In 2007, Dr. McCullough installed several large purple beetle traps along the Trowbridge Extension near a grove of ash trees to monitor the population of Emerald Ash Borers on campus.

Curator collaborates with the Campus Landscape Architects, Physical Plant in recommending plant selections for new campus landscapes.

Several campus plant collecting permits were issued in 2006-07 in support of research:

- Two from the Department of Horticulture to study crab apples
- A permit was also issued to by Dr. Gerry Adams, Department of Plant Biology/Department of Plant Pathology to supply rhododendron leaves which will serve as traps for a national fungus survey being conducted by Dr. Gerry Adams.
- A permit was also issued to Therese M. Poland, Research Entomologist, USDA Forest Service, NRS to collect branches from wild-collected Korean ash trees (Fraxinus rhyncophylla Hance.) which was collected by the curator in 1993 during a field trip. The MSU campus is the only regional source for this species of ash tree native to Asia.

See USDA CSREES grant below.

Invertebrate Zoology Collections:
Members of the Zoology faculty have used specimens from both the teaching and research collections for teaching and research purposes. The former includes a newly designed laboratory exercise for zoology students (ZOL 306) in providing hands on experience in using collection materials for research in mussel species distribution changes from the 1930s, 50s and 2003 as well as shell growth morphometrics.

Kresge Art Museum:
Working with the MSU Museum to design a satellite installation space at the MSU Federal Credit Union’s new headquarters in East Lansing. KAM staff maintains the Public Art on Campus website, and the curator and director are members of the PAOC committee. Collaborated with the Art and Art History Department to mount the Biennial Studio Art Faculty Exhibition. Collaborations with the MSU Libraries Friday Night Film Series (Harlan County, USA, with commentary by John Beck); presentation for Our Daily Work/Our Daily Lives (S. Bandes on American Images exhibition). Ongoing collaboration with Department of Art and Art History faculty to show the collection to students, facilitate their research projects, provide tours as requested, and cosponsor related educational programs.

Collaborating with adjunct photography curator, Howard Bossen, College of Communications, on the exhibition Steel for 2010.

**MSU Museum:**
Curator Barbara Lundrigan and adjunct Kay Holekamp are collaborating with Sharleen Sakai from the Department of Psychology on a study that uses computed tomography (CT scans) of museum mammal specimens to examine the relationship between frontal cortex morphology and social complexity.

Curator Barbara Lundrigan is serving as a consultant for the MSU Brain Biodiversity Bank website (http://www.brains.rad.msu.edu).

Curator Barbara Lundrigan and students are collaborating with Andrew McAdam from Fisheries & Wildlife on the influence of climate change on small mammal communities.

Curator Mike Gottfried is collaborating with colleagues from the MSU College of Engineering and MSU Clinical Center on a CT-scan-based analysis of cranial features in fossil sharks.

Collections Manager Laura Abraczinskas contributed to the Knight Center for Environmental Journalism film Dying to Be Heard, produced by MSU students and faculty. The film was the first in the Center’s “Environment” series and aired on the 100th anniversary of Rachel Carson’s birthday.

Assistant Curator Pamela Rasmussen is collaborating with faculty of the Center for Global Change and Earth Observations and the Department of Microbiology and Molecular Genetics on remote bird song survey techniques and biodiversity surveys emphasizing the impact of habitat destruction and global change.

Natural Sciences Conservation Specialist James Harding is collaborating with a Zoology Department graduate student on a study of state-threatened turtles in Michigan.

Collaboration with the MSU Office of the President in an installation of museum collections in Cowles House.
Collaboration between William Lovis and Alan B. Arbogast, Geography Department, on an ISTEA/MDOT funded project researching the timing of coastal dune formation, activation, and stabilization as these processes relate to the formation of stratified archaeological sites.

Collaboration between Jodie O’Gorman and William Lovis on a journal article summarizing the prehistory of southwestern Michigan for a special issue of the *Midcontinental Journal of Archaeology*.

Collaboration between Jodie O’Gorman and Catherine Yansa, Geography Department, on production of an NSF proposal to investigate the origins and use of maize in southwestern Michigan.

Collaborative project with the Association of Michigan Basketmakers to produce an exhibition and catalog of the collection of work made by members of the AMB and donated to the Museum. This exhibition opened at MSU Museum in March 2007, and will tour to other venues throughout the state and region. The publication will be published in late summer 2007.

**CANR Undergraduate Research Program.**

**University Archives & Historical Collections:**

Every department that transfers records to us.

**Off campus:**

**A.J. Cook Arthropod Research Collection:**

ARC is the depository for specimens collected as part of the national initiative to survey for exotic bark beetle species. Bark beetle and non-bark beetle specimens from locations throughout the U.S. will be vouchered in the ARC and substantially increase the beetle holdings.

The ARC continues to loan specimens for scientific study to researchers throughout the world. Loans increased by 100% since July 2006.

**W.J. Beal Botanical Garden and Campus Arboretum:**

The W.J. Beal Botanical Garden continues to collaborate with the University of Michigan Medical College rotation in Emergency Room Toxicology and with the Detroit Poison Control Center in hosting three semi-annual workshops within the garden providing training in identification of toxic plants, awareness of medicinal herbs and contraindications, and treatment in the emergency room setting.

In June 2007, Dr. Frank W. Telewski, Curator, representing the American Public Gardens Association, met with officials from the U.S.D.A. A.P.H.I.S. in College Park, MD, to
discuss changes in the plant importing permitting process and how these changes will impact botanical gardens and arboreta in the U.S.


The Curator continues to be on call with Sparrow Hospital Emergency Room for toxic plant ingestions cases.

NGO “Trees For Mt. Lemmon”, and U.S.D.A. Forest Service: Curator providing information to assist in tree planting following the Aspen Fire in the Santa Catalina Rangers District, Pima County, Arizona.

**Herbarium:**
Dr. Fryday continues his collaboration with Drs. Alison Dibble & James Hinds (University of Maine) and Dr. Norton Miller (NY State Museum) on the *Bryophytes and lichens of the alpine and subalpine zones on Katahdin, Maine*. As part of this project, Dr. Fryday has discovered three undescribed species of lichen, fourteen species new to North America, and many others new to the NE U.S.A. All of these collections are awaiting accession into the MSC herbarium. Two papers and one poster (see below) have already been published from this collaboration and three more are nearing completion and will be submitted in the coming year.

**Invertebrate Zoology Collection:**
Scientists from the Michigan Natural Features Inventory have assisted in verifying freshwater mussel identifications and are incorporating the freshwater mussel holdings of the Invertebrate Zoology Collections into their database.

Scientists from the USDA have consulted the collections concerning records of invasive land and aquatic snails in Michigan.

Several members of the public have consulted the collections staff for identification of non-insect invertebrates found on their property – on at least two occasions these turned out to be exotic species on the USDA list of potential invaders.

**Kresge Art Museum:**
Partner in the Greater Lansing Museum Collaborative (MSU Museum, Michigan Historical Museum, Impression 5, Potter Park Zoo) to present programs and exhibitions throughout the year on the theme of work and workers’ culture.

Curated an exhibition from the KAM collection, *Working American: Photographs from the Ewing Galloway Agency, 1910-1950*, for the Michigan Historical Museum, Feb-June 2007 and also received a grant to cover framing and installation costs. Our staffs collaborated on docent training and educational projects. KAM registrar and preparator
offered them advice regarding their potential off-site storage area and on moving their fine arts collection.

Partnered with Capital Area District Library to show films related to American Images.

Lent paintings from the collection to the following exhibitions: Two paintings to Daniel Garber: Romantic Realist exhibition at the Pennsylvania Academy of the Fine Arts (Jan.-April 2007); Zerihun Yemgeta to Continuity and Change: Three Generations of Ethiopian Artists at the Harn Museum of Art, University of Florida (Jan.-May 2007); two 17th century Spanish paintings (Francisco de Zurbaran and his school) to Dali and the Spanish Baroque at the Salvador Dali Museum, St. Petersburg, Florida (Feb.-June, 2007); Miriam Beerman to Miriam Beerman, Eloquent Pain(t) at the Everson Museum of Art, Syracuse, New York (Sept. 2006-Jan. 2007)

Traveling exhibitions from the collection organized by the Kresge: Blast from the Past: Art of the 1960s was shown at the Dennos Museum Center, Northwestern Michigan College (Sept.-Nov. 2006) and the DeVos Art Museum, Northern Michigan University (Jan.-Mar. 2007). Art in the ‘Toon Age was shown at the Rutgers/Camden Center for the Arts (July-Sept. 2006), the Fine Arts Center Gallery, University of Arkansas (Oct.-Dec. 2006), Art League of Bonita Springs, Florida (Jan.-Feb. 2007) and the Delaware Art Museum (Mar.-May 2007).

Frequent consultations with the public to identify and date works of art and to offer advice about proper care.

MSU Museum:
Curator Barbara Lundrigan is collaborating with curators from five other Great Lakes institutions (University of Michigan, University of Wisconsin, Miami of Ohio, University of Minnesota, and University of Notre Dame) on a study of the effects of global warming on boreal mammal communities.

Curator Barbara Lundrigan and adjunct Kay Holekamp are collaborating with faculty from Fisheries & Wildlife and the University of Michigan on a study of behavioral and morphological ontogeny of large mammalian carnivores.

Curator Mike Gottfried is collaborating with Patrick O’Connor and Nancy Stevens from Ohio University, David Krause from Stony Brook University, and Eric Roberts, University of the Witwatersrand, South Africa on a study of the fossil record and geologic setting of the Rukwa Rift Basin in southwestern Tanzania.

Curator Mike Gottfried is collaborating with Ewan Fordyce from Otago University in New Zealand on a study of marine faunas in the southern oceans following the establishment of the circum-Antarctic current.
Assistant Curator Pamela Rasmussen is conducting collaborative ornithological field research in Myanmar (Burma) with colleagues from the Smithsonian Institution and Myanmar.

Assistant Curator Pamela Rasmussen is collaborating on ornithological research with colleagues at the Natural History Museum (Tring, UK) and Ceylon Bird Society, on the systematics, distribution, and biogeography of South Asian birds.

Collaborated with the Smithsonian Institution Traveling Exhibitions Service and Michigan Humanities Council to prepare an exhibition entitled “Michigan Foodways,” to tour with the Smithsonian exhibition “Key Ingredients: American by Food.” The exhibition was curated by Yvonne Lockwood using two decades of research on foodways traditions in Michigan. The exhibit is currently traveling to six sites in Michigan, and will return the Museum to be on view during the summer of 2008.

The “Carriers of Culture: Living Native Basket Traditions” an exhibition featuring MSU Museum’s basketry collections, was featured at the Smithsonian Institution's National Museum of the American Indian for five months. Museum faculty, in collaboration with the Smithsonian Institution's Center for Folklife and Cultural Heritage, the Smithsonian Institution's National Museum of the American Indian, and a cluster of native basketweaving organizations and tribal organizations across North America and in Hawaii, mounted a 10 day presentation at the Festival of American Folklife on the Mall in Washington, D.C. in summer of 2006.

Lynne Swanson, Kurt Dewhurst, and Marsha MacDowell prepared an exhibition of contemporary Native American baskets that was installed at the National Museum of the American Indian in Washington, D.C.

The Quilt Index is a major collaborative project of the Museum, The Alliance for American Quilts, and MSU MATRIX in conjunction with museums, libraries, and archives across the United States holding significant collections of quilts and quilt data.

Collaboration with the Office of the Governor on an installation of a temporary exhibition of traditional Michigan art in the Governor’s Suite, curated by Lynne Swanson.

Collaboration between Jodie O’Gorman and Jane Buikstra, School of Human Evolution and Social Change, Arizona State University, on social memory and the prehistoric landscape of the lower Illinois Valley.

Collaboration between Jodie O’Gorman and Dean Anderson, Office of the State Archaeologist, Michigan Historical Center, on the prehistoric aspect of an exhibit of deer hunting in Michigan.
Collaboration between William Lovis and John P. Hart, Research and Collections Division, New York State Museum, on research related to the accuracy of Accelerator Mass Spectrometer dating of carbonized food residues on prehistoric pottery in Europe and Eastern North America. This has resulted in two major journal articles in press at *Radiocarbon*, and *Midcontinental Journal of Archaeology*.

Collaboration between William Lovis and G. William Monaghan, Glenn Black Laboratory of Archaeology, Indiana University, on an ISTEA/MDOT funded project researching the timing of coastal dune formation, activation, and stabilization as these processes relate to the formation of stratified archaeological sites.

Collaboration between William Lovis and Robert Hitchcock, and Robert Whallon, Museum of Anthropology University of Michigan, on the organization of a symposium on *Hunter Gatherer Use of Information* for the upcoming Society for American Archaeology Annual Meeting in Vancouver, 2008. Planning is well along and it appears this will be a major session with international participation.


**International Projects**

**A.J. Cook Arthropod Research Collection:**

We have initiated an official partnership between the A.J. Cook Arthropod Research Collection (ARC) at Michigan State University and the Centre for the Study of Biological Diversity (CSBD) at the University of Guyana. This partnership would facilitate the collection, curation, and identification of Guyanese insects. The ARC would provide instruction to insect collection and curation, limited funds for insect curation and supplies, and facilitate the identification of the insects. The CSBD would provide a Guyanese collaborator and undergraduate students to conduct schedule collections and curation of specimens, help to facilitate research and export permits and scheduled shipments of curated specimens to ARC for identification.

Both ARC and CSBD would benefit from this partnership. CSBD would gain student training in Entomological techniques, increased holdings and curation of insect in CSBD and potential access to US National Science Foundation funding. ARC would gain logistical help during collecting expeditions and increased holdings of Guyanese insects.

**W.J. Beal Botanical Garden and Campus Arboretum:**
The Curator of the W.J. Beal Botanical Garden continues to host the AABGACOL list serv, a list serve of over 400 botanical institutions internationally in a forum dedicated to plant collections management, maintenance, and conservation. Participation: 355 individuals in 30 countries.

The Curator is currently serving on the Scientific Committee for one International Conference:

International Union of Forest Research Organizations’ Wind and Trees conference to be held in Vancouver, B.C. Canada in 2007.

The Curator was an invited speaker at the “Plant Neurobiology Conference” held in Slovakia in May 2007, where he presented a paper on his research on sensing wind stress (mechanoperception) and tree development.

Publishing annual *Index Seminum*, seed list for the International Seed Exchange Program which is distributed to over 400 botanical gardens and arboreta around the world.

**Herbarium:**
The NSF Award to the Herbarium to computerize the label data of the lichen collection (see above) also included funds to bring lichenologists to the collection to work on it and improve its standard of curation. Many of these visitors have been from overseas and have included Drs. Susan Calvelo (Bariloche, Argentine), Brian Coppins (Edinburgh, U.K.), and Gintaras Kantvilas (Hobart, Australia). These visits have resulted in joint publications by Dr. Fryday and Drs. Calvelo and Coppins (see below), and an ongoing research project with Dr. Kantvilas.

Dr. Fryday also continues his investigations into the lichen biota of the southern subpolar region [http://www.herbarium.msu.edu/SSP/](http://www.herbarium.msu.edu/SSP/). He is currently collaborating with Dr. David Galloway (Dunedin, New Zealand) and Ms Helen Otley (Stanley, Falkland Islands) on the production of lichen checklists for the islands of the Campbell Plateau (New Zealand) and the Falkland Islands, respectively, that are based largely on the collections in MSU.

**Invertebrate Zoology Collections:**
One lot of marine gastropods is on loan to a researcher in Brazil.

**Kresge Art Museum:**
Lending Salvador Dali painting to the *Dali & Film* exhibition at the Tate Modern, London (May-Aug. 2007).

Planning is underway for the exhibition *Steel: Hot Metal, Cold Reality* with the Carnegie Museum of Art, Pittsburgh. As a result of recent negotiations with The Ruhrlandmuseum in Essen, Germany, the show will be seen there. Howard Bossen, adjunct photography curator, received university support, is applying for outside grants, and is researching the show.
**MSU Museum:**

Vertebrate Natural History faculty Barbara Lundrigan, Michael Gottfried, Pamela Rasmussen, and graduate students are involved in the following international projects:

- fossil collecting and interpreting the geology of the Rukwa Rift Basin, southwestern Tanzania in the context of Gondwanan paleobiogeography
- collecting Oligocene and Miocene fossil fishes and sharks as part of a paleo-oceanographic study of New Zealand
- fossil fish occurrences from the Late Cretaceous of Madagascar, in the context of Gondwanan paleobiogeography
- collections-based research on African and South Asian birds
- assessing the biodiversity and conservation status of bird populations in northern Myanmar (Burma)
- ‘Study Abroad’ programs in Antarctica and new ones in development in Uganda and Tanzania
- field and collections-based research on large carnivores in Kenya
- behavioral study of the African forest buffalo in Gabon

Cultural History faculty, staff and students developed *Siyazama: Traditional Arts, Education, and AIDS in South Africa*, a collaborative research, collection development, exhibition, and education project with Natal Technikon that grew out of the South African National Cultural Heritage Project, a bi-national project led, in part, by MSU Museum and MATRIX. The exhibition was featured at the Museum.

Curators mounted the exhibition *Worker's Culture in Two Nations: United States and South Africa*, which opened September 10, 2006. It explores the culture of workers in the U.S. (primarily Michigan) and South Africa through photographs, objects, music, poetry, art, and crafts. The exhibit is a project of the MSU School of Labor and Industrial Relations and the Museum under the joint program, "Our Daily Work, Our Daily Lives" of the Greater Lansing Museum Collaborative. From September 2006 - August 2007, participating organizations sponsored a wide range of programs on work, workplaces, workers and workers culture.

Curator Marsha MacDowell and Director C. Kurt Dewhurst developed and led a study abroad program focused on museum studies and South African cultural heritage, the first program of its kind offered by an American university, in South Africa.

Collaboration between William Lovis and Adrian Evans, Yvonne Wolframm, and Randolph Donahue, University of Bradford, UK, on an article for *Journal of Archaeological Science*. The article reports on a pilot study of the Inductively Coupled Plasma-Laser Ablation identification of cherts from the Pennine uplands, and the implications of this study for both future research into chert sourcing as well as Mesolithic territoriality.

Continued collaboration between William Lovis and Randolph Donahue, University of Bradford, on the production of a monograph detailing the results of 10 years worth of archaeological research into the Mesolithic of North Yorkshire.
Collaboration between William Lovis and Robert MacDonald, Archaeological Research Services Ltd., Canada, on the production of an entry for *Archaeology in America: An Encyclopedia* detailing the relationship between changing Great Lakes paleoenvironments and human adaptations since the last glaciation.

**University Archives & Historical Collections:**
Director ended term as President of the International Conference of Archives, Section on University and Research Institution Archives in Fall 2006.

**Grants (new and ongoing)/endowments (new)**

**A.J. Cook Arthropod Research Collection:**
The A.J. Cook Arthropod Research Collection submitted an NSF-BRC collections improvement grant request in 2007, which despite very favorable reviews was not funded. We are resubmitting the grant this year on a smaller scale.

**W.J. Beal Botanical Garden and Campus Arboretum:**
$1,500,000 Jean and Alfred Goldner Endowment  
$100,000 Joan Kirby Endowment  
$50,000 Beal Botanical Garden Endowment  
$199,000 USDA NRI CSREES grant, 3rd year “Functional Relations between Lignin Monomer Composition and Xylem Properties” Collaboration with Dr. Ewers (Plant Biology, and Dr. Han, Forestry)  
Mrs. Sandy Carlisle has been working with the Beal Botanical Garden Staff and the Development office to secure a gift of a garden gate and railing for the main entrance stairs into the garden from West Circle Drive. The Carlisle’s have already made a $500,000 planned gift to the W. J. Beal Botanical Garden.

**Florence G. Wallace Conservation Lab, MSU Libraries:**
See the care of collections above about the continuing efforts in the NEH funded Save America’s Treasures grant.

**Herbarium:**
See the care of collections above about the continuing efforts in the NEH funded Save America’s Treasures grant. See the care of collections above about the continuing efforts in the NEH funded Save America’s Treasures grant.

**Kresge Art Museum:**
Carpenter Foundation ($10,000) to purchase contemporary Chinese photography.

MCACA for exhibitions ($10,500); Arts Council of Greater Lansing (MCACA minigrant, $4,000) for Galloway exhibition.
Funds from the VP for Research enabled KAM to purchase 20th century photographs and prints, including one by Elaine DeKooning.

Funds from College of Arts & Letters and Communication Arts and VP for Research to support the research phase of Steel.

MSU Museum:
Museum adjunct Kay Holekamp (Zoology), Curator Barbara Lundrigan, Kim Scribner (Fisheries and Wildlife) and Miriam Zelditch (University of Michigan) received a grant of $570,942 from NSF for a field and collections-based study of the Roles of Competition and Constraint in the Evolution of Mammalian Behavior.

In collaboration with Ohio University faculty Patrick O’Connor and Nancy Stevens, Curator Mike Gottfried received a grant of $265,000 from NSF to fund field-based research on paleontology and geology of the Rukwa Rift Basin, Tanzania.

MSU IRGP awarded $74,946 to Sharleen Sakai (Psychology), Curator Barbara Lundrigan, and Museum adjunct Kay Holekamp (Zoology) for a collections-based study entitled “Frontal Cortex and Social Complexity: A Comparative Study using Computed Tomography”.

A grant of $81,755 from the Institute of Museum and Library Services (IMLS) is being used to purchase new cabinets and archival supplies for the MSU Museum Mammal Collection (Curator Barbara Lundrigan and Collections Manager Laura Abraczinskas).

A grant of $149,806 from the IMLS is being used to complete critical database activities and upgrade technological infrastructure in the MSU Museum’s History and Mammal Collections (Curator Barbara Lundrigan and Collections Managers Laura Abraczinskas and Lynne Swanson).

Curator Barbara Lundrigan, Assistant Curator Pamela Rasmussen, and Collections Manager Laura Abraczinskas are engaged in a five-year, NSF-funded, multi-institution, Community Effort to Build an Integrated, Distributed, Enriched, and Error-checked ORNithological Information System (ORNIS). The MSU budget is $25,267.

In collaboration with researchers John Rappole, Swen Renner, and Nay Myo Shwe from the Smithsonian Institution Conservation and Research Center and National Zoo, Assistant Curator Pam Rasmussen received a grant from the National Geographic Society ($20,000) to investigate the avian community and new species from Sub-Himalayan Myanmar.

In collaboration with researchers John Rappole and Swen Renner from the Smithsonian Institution National Zoo and Conservation and Research Center, Assistant Curator Pam Rasmussen received a Chapman Collections Study Grant from the American Museum of Natural History.
Marvin “Max” Hensley Endowment for Vertebrate Natural History Collections Care.

A new grant of $150,000 from IMLS is being used to provide new storage cabinetry and materials to rehouse the doll collection, paper collections, and the sewing and handwork collection. The grant also funded “Kids Curate,” a public education component involving two 5th grade classes from E. Lansing Public Schools. The grant will provide funding for a paper conservator to consult with MSU Museum staff and students (Curator MacDowell and Collections Manager Swanson).

Interstate Transportation Enhancement Act (ISTEA)/Michigan Department of Transportation (continuation) project researching the timing of coastal dune formation, activation, and stabilization as these processes relate to the formation of stratified archaeological sites. Award amount: $261,421.

University Outreach Arts and Culture Research Initiative: Family Arts and Culture Research Grant. Curator MacDowell is leading a project on the qualities of quality of arts education in Native culture and Assistant Curator Kozma is leading a study of intergenerational storytelling.

Publications of note by staff/on the collections

W.J. Beal Botanical Garden and Campus Arboretum:

Herbarium:


Kresge Art Museum:

Rankings of collections:
W.J. Beal Botanical Garden and Campus Arboretum:
Botanical Gardens and Arboreta are currently not assigned a rating within the profession.

Herbarium:
The lichen collection currently numbers 112,065 accessioned specimens, making it one of the top 10, in size, in North America. However, its importance is in the geographical focus of its collections, which makes it one of the most important modern collections anywhere in the world.

MSU Museum:
*MSU Museum Division of Vertebrate Natural History* – the MSU Museum Fish skeletal collection is the 9th largest in North America (Poss & Collett’s Second Survey of Fish Collections in the U.S. and Canada); the Mammal holdings from Mexico rank 7th in U.S. and Canadian collections (R. Lopez-Wilchis, *Journal of Mammalogy* **79**); the Mammal Research Collection ranks 21st in the Western Hemisphere (American Society of Mammalogists Survey of Existing Collections).

Accreditation/reaccreditation
Kresge Art Museum:
Kresge Art Museum is accredited by the American Association of Museums. The reaccreditation process will begin in 2008.

MSU Museum:
MSU Museum Division of Vertebrate Natural History – the Mammal Research Collection is accredited by the American Society of Mammalogists.

MSU Museum & MSU Herbarium – have Registered Scientific Institution recognition by the Convention on International Trade in Endangered Species (CITES).

MSU Museum is accredited by the American Association of Museums.

Additional Information:

A.J. Cook Arthropod Research Collection:
Since 1996, the ARC has been closely associated with the Department of Entomology’s Bug House. This facility is specifically designed to introduce children of all ages to the fascinating world of insects. In the Bug House, the ARC staff assists with the curation and maintenance of displays of an array of pinned and live insects and participate in guided tours and public events. Insect structure, function, value, behavior and diversity are described through up-close observation, hands-on activities and discussion. The Bug House also offers several half-day Bug Camps for younger children, and a 4-day Insect World Summer Camp for 9-16 year-old students from suburban and urban areas throughout Michigan. The ARC staff assists in these camp activities via collecting trips, tours of the collection, and demonstrations of proper ways of mounting insects for their collections. In addition, the ARC also supports 4-H activities, MSU Ag-Expo, Darwin Day at the MSU museum, and other outreach and extension events on and off campus with insect displays, and staff knowledgeable in insect natural history.

W.J. Beal Botanical Garden and Campus Arboretum:
The Curator co-taught the graduate level course Environmental Plant Physiology (PLB/HRT 863) in the Spring ’07 semester.

Florence G. Wallace Conservation Lab, MSU Libraries:

Invertebrate Zoology Collections:
The MSU Invertebrate Zoology Collections web page has been expanded to include a page devoted to pest snails and slugs of Michigan. (At the present time the collections web page is linked to the MSU Snail Lab, www.msu.edu/~atkinso9.)
Kresge Art Museum:
Planning and fundraising for the new museum is ongoing. In December, the MSU Board of Trustees voted to approve planning for a stand-alone facility will be built on Grand River Avenue at the site of the current Paolucci building.

MSU Museum:
MSU Museum Collections Needs: Funds are needed to install a security system and a fire suppression system in the Cultural Collections Resource Center.

Museum Careers session at 4-H Exploration Days, coordinated by LuAnne Kozma and taught by Mary Worrall, in June 2007, brought 4-Hers and adults from across Michigan in a five-hour workshop exploring curatorial care and museum careers and skills.

University Archives & Historical Collections:
The UA&HC is sponsoring a meeting on Electronic Records of the CIC University Archives Group at the Kellogg Center, September, 2008.

After a lengthy search the UA&HC was able to hire two new electronic records archivists to begin to deal with the ever increasing size of archival holdings.