

Museum of Northern Arizona

Easton Collection Center: Building Green Strengthening Partnerships

U.S. Green Building Council

- Founded in 1993 by Rick Fedrizzi, David Gottfried and Mike Italiano
- Mission: promote sustainability in the building & construction industry.
- LEED: Leadership in Energy and Environmental Design
 - Verification that design and construction strategies achieve high performance and a safe environment for people
 - Sustainable site development
 - Water savings
 - Energy efficiency
 - Wise material selection
 - Indoor environmental quality
 - Basic, Silver, Gold, Platinum
- www.usgbc.org
 - Education, conferences, support network, governmental advocacy, certification

Privately Funded Museum Founded in 1928

Mission "Inspire a sense of love and responsibility for the beauty and diversity of the Colorado Plateau through collecting, studying, interpreting, and preserving the region's natural and cultural heritage."

MNA Collections

Historic Native American objects	15,000
Archaeology objects (cataloged)	225,000
Arch. research collections – cu. ft.	17,296
Paleontology specimens	22,000
Rocks & Minerals	4,000
Botany specimens	33,000
Zoology	19,000
Entomology specimens	175,000
Works of Art	3,200
Archives – linear ft	3,536
Library Titles	76,000

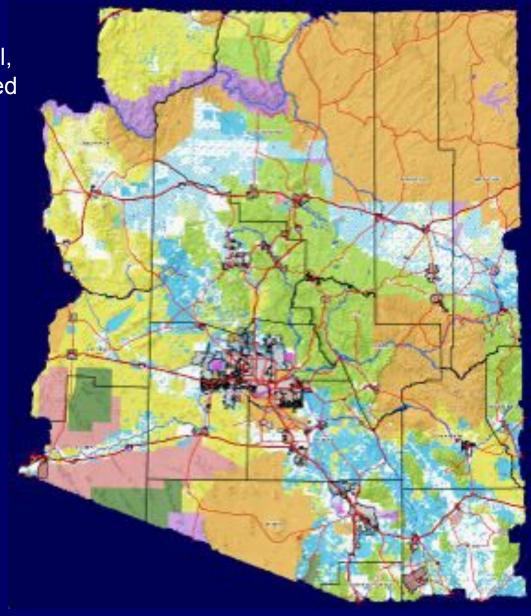


Geographic Focus: Colorado Plateau

Federal Partners

 83% of Arizona land is Federal, Tribal or State owned/controlled

- Forest Service
 - Coconino
 - Kaibab
- National Park Service
 - NPS Museum Curator
 - Wupatki NM
 - Walnut Canyon NM
 - Sunset Crater NM
 - Petrified Forest NM
 - Navajo NM
- Bureau of Reclamation
- Bureau of Indian Affairs



Tribal Partners

- Hopi
 - Collection storage at MNA
 - The Hopi School
 - Austin Lomatewama & Marvin Pooyouma classes
- Navajo
 - Cultural Traditional Practitioner needs
- Zuni
- Havasupai
- Yavapai Apache Tribe





Resetting Course

- 2002-2003 events
 - Loss of AAM Accreditation in 2003
- Need for New Storage Facility
 - Conservation Assessments
 - 1988 MAP II
 - "Provide improved and expanded facilities...New Federal...guidelines for repositories will require substantial improvement over the current situation."
 - 1989 Conservation Survey
 - "It is essential that the museum address substantially upgrading in the storage...New facilities need to be considered"
 - 1990 Environmental Survey
 - "Ultimately, the only solution to the storage problem is the construction of new storage facilities...It is a question of throwing good money after bad.
 - 2004 CMAP
 - "There are two overriding concerns regarding collections stewardship: the storage facilities and lack of collections staff"

Easton Collection Center (ECC)

- Harry & Betsy Easton donation
- \$3 million that rose to \$5.7 million





Architectural Design

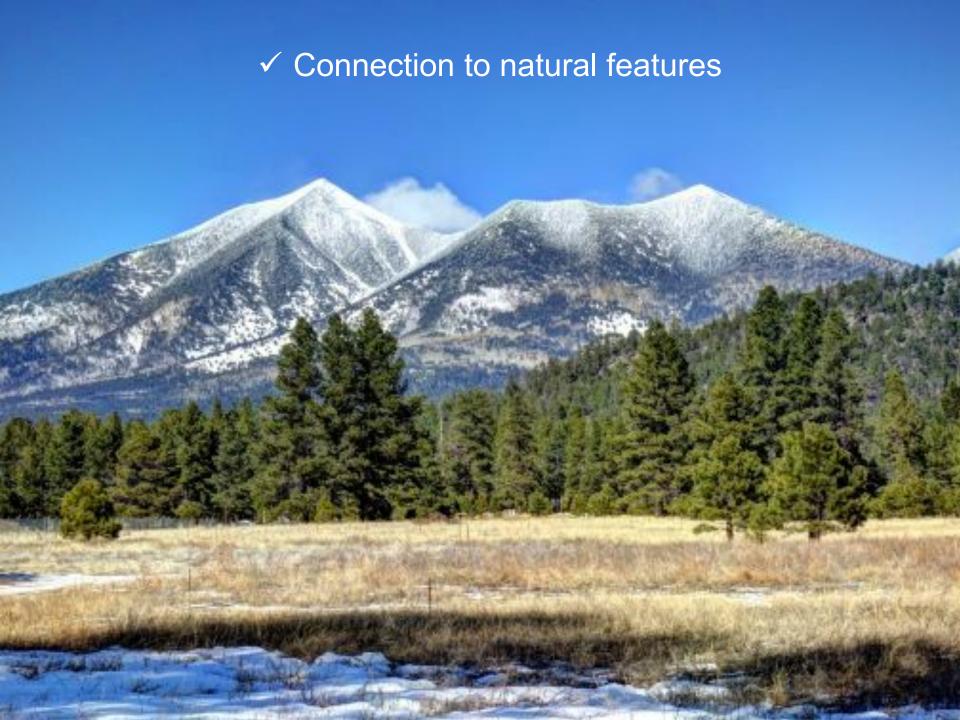
• Jim Roberts & Associates

Tribal Consultations

- Zuni visit
- Tribe Concerns
 - No remains or funerary objects
 - No sacred/ceremonial
 - No cultural patrimony
 - No exposure to seasonally sensitive natural science holdings







- ✓ Not a box
- ✓ Entrance to the east
- ✓ Link to seasonal change





Conservation Recommendations

- Appropriate & sustainable seasonal shift
 - 60-70°F, ±3°F
 - 27 to 43% Rh, ±6%
- Closed cases for highest level of protection
- Prioritize holdings
 - Space limitation
 - 17,283 sq. ft. total
 - 13,746 sq. ft. for Storage
 - Three priority levels







Museum of Northern Arizona ~ H.S. Colton Research Center Campus



Relocation of Historic Buildings











Building Deconstruction









What About That Cinderblock?









Blessing the Site



Maybe Some New Storage Furniture?

- Donor funding for construction, not cabinetry, staffing or other needs
- MNA has to seek funding for other collection needs











Institute of Museum and Library Services (IMLS)

National Endowment for the Humanities (NEH)

National NAGPRA grant program

National Film Preservation Foundation (NFPF)

Save America's Treasures (SAT)

Antique Tribal Art Dealers (ATADA)

Arizona Historical Records Advisory Board (AHRAB)

34 Collection Grants - \$2,220,593

- 2013 IMLS-MFA, \$149,998, purchase zoology & entomology cases
- 2013 IMLS-MFA, \$150,000, perform photographic rehousing pilot projects
- 2013 AHRAB, \$2,314, purchase rehousing supplies for acetate films
- 2013 NFPF, \$4,870, create preservation copy of *Cohonina Dig* film
- 2012 Southwestern Foundation, \$5,000, support for general conservation survey
- 2012 IMLS-CP, \$65,264, complete a general conservation survey
- 2012 ATADA, \$500, rehousing of oversized Navajo sandpainting representations
- 2011 NEH-Preservation Assistance grant, \$5,440, purchase fire proof file cabinets for registration files
- 2011 Southwestern Foundation, \$15,000, support Archivist salary
- 2011 NEH-Sustaining Cultural Collections grant, \$139,858, purchase ECC archive compactor shelving
- 2009 NEH-PA grant, \$6,000, to rehouse ethographic, archaeological and archive holdings
- 2009 ATADA grant, \$1,200, to rehouse Hopi and Zuni katsina dolls
- 2009 Southwestern Foundation \$18,353, purchase acid free supplies and HEPA vacuums
- 2009 IMLS Conservation Project, \$114,924, purchase botany and entomology cabinetry and compactors
- 2008 ATADA grant, \$1,000, purchase acid free roll storage tubes
- 2008 AHRAB grant, \$2,716, rehouse Anthropology records
- 2008 Southwestern Foundation, \$12,239, conservator to assess Fine Arts condition and storage requirements
- 2008 IMLS Museums for America grant, \$150,000, hire Archivist
- 2008 IMLS Conservation Project, \$107,311, purchase additional textile and basketry cabinetry
- 2007 NAGPRA grant, \$50,904, locate human remains in Ecofact collections
- 2007 NEH -Stabilization Grant "We the People", \$575,000, purchase mobile carriage/cabinetry & hire Move Coordinator
- 2007 IMLS –Conservation Project, \$8,924, support detailed condition survey of textile and katsina doll collections
- 2007 AHRAB grant, \$3000, add Heritage Program records to Institutional Archives
- 2007 Southwestern Foundation, \$4,850, consultant archivist to create storage & organization plans for MNA archives
- 2006 NAGPRA grant, \$74,629, tribal consultations
- 2006 Save America's Treasures Grant Program, \$250,000, purchase archaeology cabinetry
- 2006 AHRAB, \$3,000, inventory archives
- 2005 NAGPRA grant, \$73,966, new tribal summaries based on new data
- 2005 IMLS-Museums for America grant program, \$149,976, hire Registrar and Collections Assistant
- 2005 IMLS-CP, \$42,746, address emergency & top priority needs of fluid preserved collections
- 2004 Museum Loan Network grant, \$19,849, survey 200 Navajo textiles
- 2003 NEH-Preservation Assistance grant, \$4,985, cabinetry for silver jewelry collection
- 2002 NEH-Preservation Assistance grant, \$4,882, develop preservation plan
- 2002 IMLS/AAM MAP II, \$1775, assess collection management practices and policies

Move, Clean, Rehouse & Purchase Cabinetry











Going Green Doesn't Stop With the Building

- Reuse of Plastics & Cardboard
- Finding homes for old cases
- Fume Extractor fundraiser



Carmen Li, Move Coordinator



Construction

- 1 Year
 - Web cam
- Minimal site disturbance
 - No trees removed
- 75% of construction waste reused or recycled
- Locally obtained materials







Environmental Features

- Offices/work areas on south side
- Water conserving plumbing systems
- Thermal fly wheel
 - High-thermal-mass materials
 - Continuous insulation
- Hygroscopic lime plaster
- Radiant in-floor heating
- Dual pane windows with UV barrier





Living Roof



Irrigation system with leak detection







Energy & Health Safety Features

- Renewable Energy
 - Solar panels produce 23,000 kWh annually
- High efficiency light fixtures
 - Shielded to prevent nighttime light pollution
- Natural lighting in certain areas
- Electrical vehicle charging station
- Use of products to maintain good air quality
 - Low VOC paints and sealants
 - Formaldehyde free composite wood
- Positive air pressure

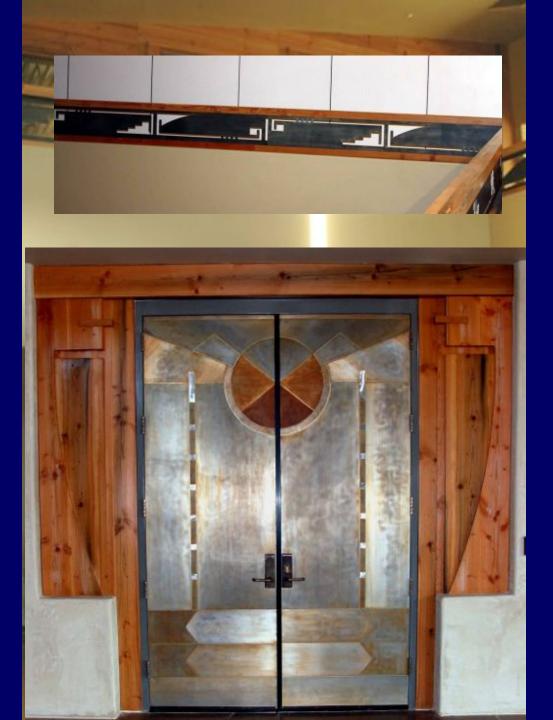




Used Throughout

- Coconino Sandstone
- COR-TEN® steel
- Recycled trestle wood
- Designs
- Calendar





Other Features









Collection Preservation Improved

- But More To Move
- More to Do

















ECC June 21st, 2009



Easton Collection Center

AAM Accreditation Awarded to MNA in 2008

