

HBCU Library Alliance Historically Black Colleges & Universities

Building Capacity - HBCU



Collections Care Basics

Image courtesy
Trenholm State Community College
and Conservation Center for Art
& Historic Artifacts



Special thanks to our funders

THE ANDREW W.



Topics this morning...

Part 1: Fundamentals

Part 2: Agents of Deterioration

Part 3: Preservation Needs Assessments

Part 1: Fundamentals

Terminology

Making the case

Establishing a preservation program



Terminology

Preservation

- Refers to all those activities aimed at caring for your collection.

Conservation

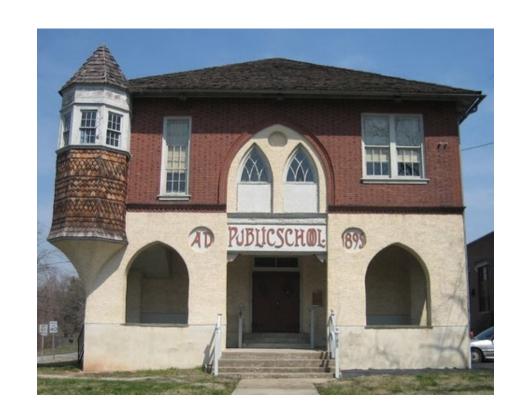
- Refers to those activities that stabilize collections chemically or strengthen them physically.



Image: NARA.gov

Preservation

- Collections care
- Stabilize
- Maintain
- Slow Deterioration



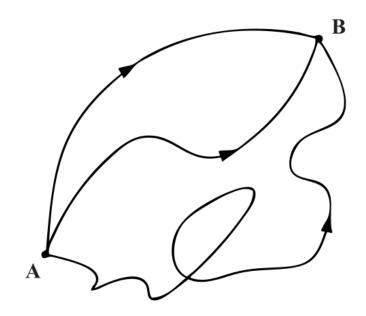
Conservation

- Physical treatment
- Strengthen
- Repair
- Stabilize



Preservation Program

Establish preservation goals and systems.



A preservation plan is a document that "defines and charts a course of action to meet an institution's overall preservation needs for its collections."

Resource: Minnesota Historical Society. "Long-Range Preservation Plan." Minnesota Historical Society: St Paul, MN, 2004, updated 2012.

http://www.mnhs.org/preserve/conservation/reports/2012longrangeplan.pdf

Benefits of Planning

- Continues and fulfills mission
- Saves collections
- Good use of resources
- Systematic approach



Who is Responsible for Preservation?

- Director
- Board
- CollectionsStaff
 - Librarians
 - Curators
 - Archivists
 - * Registrars

- ExhibitPreparators
- Facility Staff
- Janitorial Staff
- Security Staff
- Patrons/ Visitors



Part 2: Ten Agents of Deterioration

- Physical forces
- Thieves, vandals, and displacers
- Fire
- Water
- Pests and mold
- Pollutants

- Light
- Incorrect temperature
- Incorrect relative humidity
- Custodial neglect and dissociation

Deterioration of Collections

- Deterioration may be put into 3 categories:
 - Physical Deterioration
 - Tears, abrasion, compaction, losses, folds, creases, planar distortions, etc.
 - Chemical Deterioration
 - Staining, discoloration, degraded adhesive residues, degrading media, etc.
 - Biological Deterioration
 - Digestion by mold, bacteria, and insects

1. Physical Force

- Impact, shock, vibration, pressure, and abrasion.
- Immediate damage through direct physical force.
 - Handling and transportation of collection objects
 - Emergency situations
- Accumulative damage from a
- continuous force over a period oftime.
 - Vibrations from surroundings, causing movement or fatigue
 - Stress of over-packing or overloading objects in storage

Physical Deterioration



2. Vandals & Thieves

Theft— the premeditated or opportunistic removal of collection objects from an institution; or embezzlement of funds by staff.

• Stolen objects are no longer available to the public.

Vandalism—purposeful defacement of collection objects.

 Vandalized objects sustain damage that may be irreversible or difficult to address with conservation treatment.

Physical and Chemical Deterioration



3. Fire

May cause quick and catastrophic loss of collections, buildings, and personnel.

Causes of fire:

- External sources (wild fires, lightning, etc.)
- Electrical sources
- Flammable materials near sources of heat
- Exposed flames (candles, fireplaces etc.)

- Construction/ renovation activities
- Improper use, storage, or disposal of flammable materials
- Gas leaks
- Arson

Chemical Deterioration

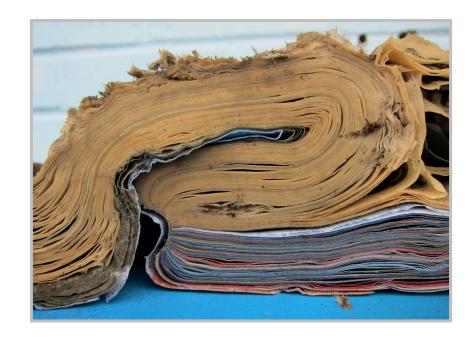


Fire damage at the University of New Mexico Library

4. Water

- Natural events, technological and mechanical failure, and accidents.
- One of the most common forms of damage in an institution - the potential for water incidents is underestimated and storage areas are often made in areas that are more susceptible to water infiltration, like attics and basements.

Physical and Chemical Deterioration



5. Pests & Mold

 Pests are living organism that cause harm to collections and buildings because they serve as food sources or housing materials for pests.

- Pest categories include:
 - Microorganisms—
 mold, bacteria
 - Insects
 - Rodents
 - Birds and Bats



Infested donation to UMFA collection

Biological Deterioration



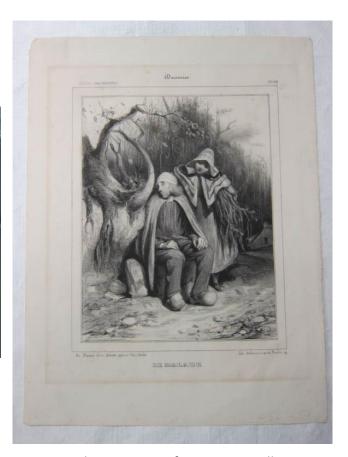
Woodpecker damage

Chemical Deterioration

6. Pollutants

 Chemicals that cause chemical damage when they come into contact with cultural heritage materials.

- Airborne (often associated with urban areas)
- Transferred through points of contact
- Sources of pollution: combustion byproducts, cleaning products, paint, films, and sealers, and electronics like air conditioning units and some copying machines.

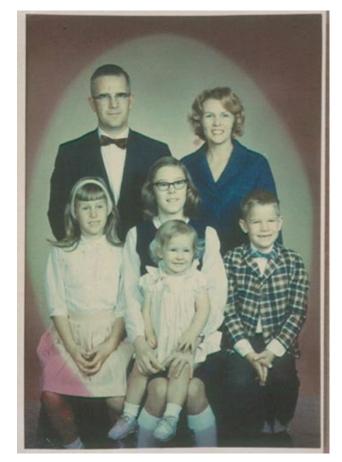


Mat burn on print from UMFA collection

Chemical Deterioration

7. Light

Visible light and ultraviolet and infrared radiation are all forms of radiation energy that will cause damage by triggering or accelerating degradation processes in objects.





8. Incorrect Temperature

 Too High—Instigates or accelerates chemical degradation processes, may also cause expansion of materials

 Too Low—Causes shrinking of objects resulting in physical damage

• Extreme Fluctuations—Objects continually expand and contract causing physical stress and periods of accelerated chemical degradation when temperatures are high.

Chemical Deterioration



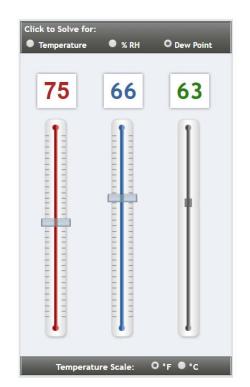
9. Incorrect Relative Humidity

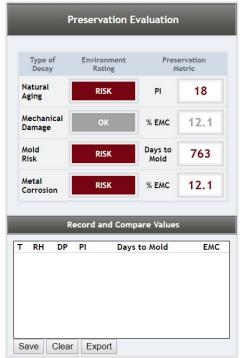
Relative humidity (RH) is the amount of moisture in the air related to temperature and pressure of a particular environment.

Organic materials contain moisture and will absorb or release moisture depending on the RH of an environment.

- **High RH:** promotes corrosion, mold growth, accelerated aging, and cause expansion of hygroscopic materials.
- Low RH: causes hygroscopic materials to release moisture causing shrinking and desiccation.
- Extreme, Frequent, or Sudden Fluctuating
 RH: objects expand and contract causing physical damage and general aging of objects

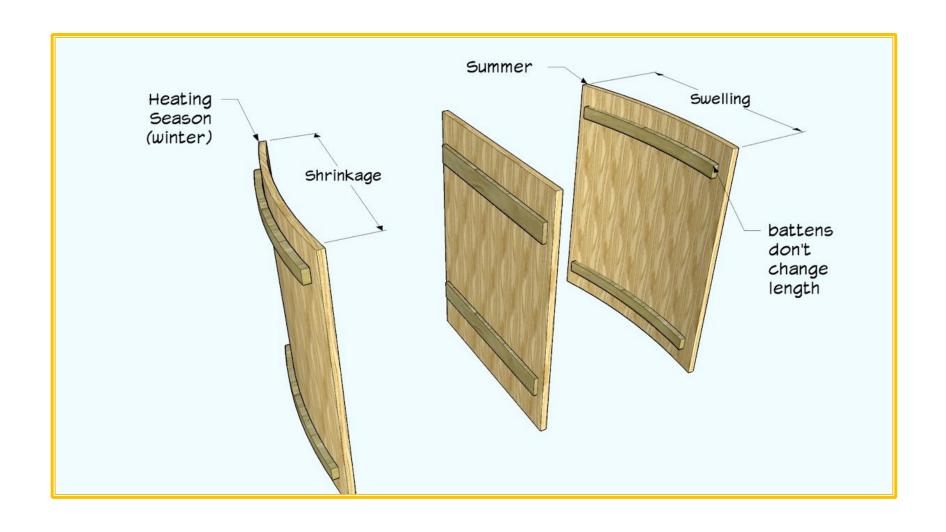
Physical and Chemical Deterioration





IPI Dew Point Calculator http://dpcalc.org/

Fluctuations



10. Custodial Neglect & Dissociation

Loss of Intellectual Control

Dissociation may result in loss of objects, loss of data or information related to objects, or ability to retrieve or associate information to objects.

Caused when ordered systems fall apart. May be a result of:

- Rare and catastrophic events
- Misplacing objects
- Removing objects from a collection or identifying labels/ tags
- Removing objects and documentation in an illegible or ambiguous manner.
- Making errors in transcription.



Tourist image of skeleton at Natural History Museum, London



Leeuwenhoek Microscope facsimile in Utrecht University Wellcome M0005632

Avenues of Deterioration

- Materials Composing the Objects
- Object Construction
- Use and Display

- Storage Methods
- Well-meaning attempts to treat damage

Environmental	Disasters or Emergencies	Institutional
 Pests Pollution Light, Ultraviolet and Infrared Radiation Incorrect Relative Humidity Incorrect Temperature 	WaterFireTheft and Vandalism*Disassociation	DisassociationCustodial Neglect
Physical Force		

Part 3: Preservation Needs Assessments

Definition:

A general evaluation of the institution's preservation needs for the collections: environment (temperature, relative humidity, pollution, and light), housekeeping, pest control, fire protection, security and disaster preparedness, collection storage, handling, exhibition, and treatment. Interviews with relevant staff will be conducted to identify preservation needs. The final written report provides observations and recommendations to serve as guides for staff and Board members as they deal with collection care issues and engage in preservation planning.

A preservation needs assessment is not ...

- Archival assessment
- Preservation plan
- Material-specific collection conservation survey
- Item level survey

Sample table of contents

- Introduction
 - Institutional History
 - About the Collections
- Abstract
- Executive Summary
- Prioritized Goals
- Collections Management
 - Preservation Planning
 - Funding
 - Staffing
 - Policies
 - Intellectual Control
 - Access
 - Space

- Building and Facilities
 - Building
 - Facilities
 - Renovations
 - Furnishings and Fixtures
- EnvironmentalManagement
 - HVAC
 - Temperature and Relative Humidity
 - Monitoring
 - Light
 - Pests
 - Mold
 - Housekeeping

- Security & Disaster
 - Security
 - Fire
 - Emergency Preparedness
- Collections Care by Format
- Appendix (outside resources)

Uses for a preservation needs assessment

- Plan can direct and guide the ongoing care and management of the collections by outlining collections needs, ongoing projects, and the necessary staffing and funding needed to carry out the projects.
- First step in preservation planning efforts
- Helps communicate needs to other staff, administration, board, and even patrons
- Helps validate what collections staff may already know
- Often required by funders
- May help prioritize and allocate budget

Assembling a Team

- Representation from every department with collections care responsibilities
- Outside consultant
- Administration or board representation



Methods of Assessing Need

- Interviews with staff members and other constituents
 - Make sure a range of expertise, types of responsibilities, and influence is represented.
 - Departmental representation: facilities, housekeeping, security, etc.
 - Administration and board

Methods of Assessing Need

- Analysis of past assessments and documents
 - Institutional history
 - Policy statements
 - Planning documents
 - Risk assessment
 - Emergency planning initiatives

Previous preservation efforts/initiatives

O What worked and what didn't?



Methods of Assessing Need

Observation

Even if it's your site, take a comprehensive tour. Try to look with fresh eyes!



Internal Uses

- Gain administrative support
- Guide strategic planning
- Promote staff awareness
- Prioritize funding initiatives
- Keep on task
- Assign responsibility



External Uses

- Fundraising
- Advocacy
- Public outreach





HBCU Library Alliance Historically Black Colleges & Universities

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Questions?

Webinar Presenter

Dyani Feige

Director of Preservation Services

Conservation Center for Art & Historic Artifacts

Email: dfeige@ccaha.org