The Preservation of a Campus: a Cooperative Grant Project with a Digital Product

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University Profile

- State-funded institution
- Carnegie Research I (Doctoral Extensive)
- 85 academic departments
- 90 research centers, laboratories, and units
- 29,272 students
- 2,200 faculty
KU: Information Services Organization

- Libraries and IT are part of the same organization.
- Reports Vice-Provost of Information Services or (CIO)
- Includes 3 Divisions:
  - Libraries (7 total)
  - Information Technology & Network/Telecomm for Campus (no Library IT)
  - Networking and Telecommunications

Diagram:

```
Vice Provost, Information Services.
  |      |      |
  |      |      |
Networking & Telecomm.  Information Technology  Libraries
```
 Getty Foundation
Campus Heritage Grant Initiative

- 71 universities and colleges
- Five years, 2002-2006
- Program purpose – “assist colleges and universities in the United States to manage and preserve the integrity of their significant historic buildings, sites and landscapes.”
- UC-Davis, Tuskegee, Wisconsin-Madison, U.S. Naval Academy in Annapolis, MD
The KU Project – Campus Units Involved

- Design and Construction Management
  - Grant recipient and primary investigator

- University Archives
  - Content
  - Historical Knowledge

- Digital Initiatives, a program of Information Services
  - Consulting for content development
  - Technology support
Linking the Complementary Missions of Content Creators and Technologists

- Four distinct groups of people working together
  - Staff from Design & Construction Management (DCM)
  - DCM’s external consultants
  - Staff from University Archives & Spencer Research Library
  - Staff from KU Digital Initiatives program

- First opportunity to work together as a team.
- Weekly meetings helped facilitate communication
- Archives & DI worked closely with DCM project and technical staff
- DCM facilitated the work of their external project consultants.
University of Kansas Historic Preservation Master Plan

- Lawrence, Kansas – historical significance
  - Oregon Trail
  - New England Emigrant Aid Society
  - Bleeding Kansas

- KU campus – historical significance
  - Geography
  - Buildings and Landscape
  - Cultural Institution
Getty Grant – KU Project Purpose

To create a Historic Preservation Master Plan for the University of Kansas

“help coordinate land use, inform landscape plans and identify significant features to be preserved even as development pressure and redevelopment continues on campus”

Grant amount is $130,000
Getty Grant – Digital Initiatives Purpose

To consider the needs for digital preservation of the digital result of the Historic Preservation Master Plan

- Digital Initiatives involvement was the result of DCM contact with the University Archives.
Quick Tour – Image Highlights

A sampling of the rich imagery that will be included in the resulting digital image collection and report.
Landscape feature (bench) 1950’s
Landscape, 1969 (human interest)
Ariel Map, 1950s (note proposed building)
Campus Map, 1892
Campus Map 1892 (Back)

April 27, 1979
0/24 1892
0/24/100
1892

Oread
100%

Property of University of Kansas Archives
Campus Map, 1904 – Site of New Gymnasium
<table>
<thead>
<tr>
<th>Component Parts of the Campus</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original Forty Acre Site, from Chas. Robinson</td>
<td>40.0 acres</td>
</tr>
<tr>
<td>North College Campus, east half 4.3 acres, from City</td>
<td>5.0 acres</td>
</tr>
<tr>
<td>west half 3.7 acres</td>
<td>8.0 acres</td>
</tr>
<tr>
<td>McCook Field, from John J. McCook</td>
<td>12.5 acres</td>
</tr>
<tr>
<td>Museum Block</td>
<td>2.5 acres</td>
</tr>
<tr>
<td>Library and Residence Lots, (Spons: L. Bullene)</td>
<td>4.9 acres</td>
</tr>
<tr>
<td>Mississippi Street, vacated by City</td>
<td>1.2 acres</td>
</tr>
<tr>
<td>Lawrence Gift, from Frank B. Lawrence</td>
<td>10.0 acres</td>
</tr>
<tr>
<td>Lawrence Tract</td>
<td>41.2 acres</td>
</tr>
<tr>
<td>Murray Quarry Site, from Dora C. Penn</td>
<td>2.5 acres</td>
</tr>
<tr>
<td>Cockins Quarry Site, from L. L. Blake</td>
<td>3.0 acres</td>
</tr>
<tr>
<td>Chadwick Tract, from A. Henley</td>
<td>6.9 acres</td>
</tr>
<tr>
<td>Chapin Tract, from Ohio Templin</td>
<td>10.0 acres</td>
</tr>
<tr>
<td>Roberts Tract, from C. H. Roberts</td>
<td>9.0 acres</td>
</tr>
<tr>
<td>Ridenour and Baker Tract, from R. B.</td>
<td>11.9 acres</td>
</tr>
<tr>
<td>Adams Street and Oread Avenue, vacated by City</td>
<td>1.9 acres</td>
</tr>
</tbody>
</table>

Total | 163.6 acres |
Campus Map 1951
Photo and DCM metadata to be joined
Photo + temporary metadata (LUNA Insight)
Linking the Complementary Missions: Workflows

- Archives is lynch pin between DCM and Digital Initiatives delivering requested content to DCM for evaluation & then transferring the selected content to Digital Initiatives.
- Workflows & processes used
  - Direct access to materials in archives
  - Form that travels with materials from archives to digitization
  - Digitization, scan both sides of photos
  - Creation of ID and transfer to *temporary* digital repository
  - DCM will create metadata for the final repository.
Specific Goals of the Digital Project
(a formal proposal)

1. To support Design and Construction Management with consulting, resources, standards, services, and tools as it creates a preservation master plan to guide future preservation and development on the historic campus.

2. To ensure that the complementary missions of technologists and content providers ("curators") are clearly linked and understood.

3. To create a model project for presentation of web-based documentation that can be adapted and used with other similar campus projects.
Digital Preservation – A Model Project
(Goal 3)

- **Preservation** - create something we believe to be preservable in a digital form:
  - Moving *upstream* to consider preservation at creation
  - Repositories used (collocation versus trusted)
  - Standards employed

- **Interoperability of tools** – the report architecture

- **Reusability** of approach
Expected Outcomes for Digital Product

1. Digital *report* from the grant that will be preserved.
   - Report *text* deposited in KU Scholarworks (Institutional Repository).
   - Report *images* (master & access)

2. An *innovative interactive digital product* that will evolve over time, serving as a source for future research by faculty, staff, students (not necessarily preservable.)
Support for DCM, Consulting

- Report Architecture (XML-based)

- Web Report – XML or TEI encoded data transformed by XSLT
  - Images in a DCM-dedicated Online Collection with Descriptive Metadata (LUNA Insight)
  - Preserve Master Tiffs
  - Access JPEG images
  - External Web-based information such as “This Week in KU History.”
  - KU Scholarworks for Access & Preservation of PDFs and Presentations
Support for DCM, Consulting
(Goal 1)

- Report Architecture (XML-based)

  XML Data (report & descriptive)

  - Images in a DCM-dedicated Online Collection with Descriptive Metadata (LUNA Insight)
  - External Web-based information such as “This Week in KU in History.”
  - KU Scholarworks for Access & Preservation of PDFs and Presentations

University Relations
KU Interactive Map
http://www.maps.ku.edu/
Add historical layers?
Support for DCM, Consulting

Google Map XML – Possibilities

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    </departments>
  </building>
- <types>
  - <type>Academic</type>
  - <type>Administrative</type>
  - <type>Services</type>
  - <type>Library</type>
</types>
Support for DCM, Standards

- **Image standards** [http://kudiglib.ku.edu/planning/dli_standards.rtf](http://kudiglib.ku.edu/planning/dli_standards.rtf)
  - Masters = uncompressed TIFF file, captured in 24-bit color, at a resolution of 600 dpi.
  - Access or derivative copies = JPEG or JPEG2K images derived from the TIFF file, which will allow a reasonable download time for the average Web-based user.

- **Metadata.** DCM has a set of database fields and is finalizing a custom metadata scheme to reflect project needs in describing imaging. Also using controlled vocabulary.
  - Season
  - Event (Football, parade, homecoming, etc)
  - Orientation of buildings
  - Landscape zone
  - Spatial data

- **XML** for text of report
Support for DCM, Standards
METADATA & Controlled Vocabulary (Goal 1)
Goal 1 – Support for DCM, *Standards METADATA*

<table>
<thead>
<tr>
<th>Categories</th>
<th>Select Feature Options</th>
<th>Add Feature to This Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
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</tr>
<tr>
<td>Buildings</td>
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<td>Memorials</td>
<td></td>
<td></td>
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<tr>
<td>Misc Features</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Can't find the feature you want?
Follow this link and add the feature to the database, then **Click to See New Feature**.)
Support for DCM, Tools
(Goal 1)

- Google Maps javascript (under consideration)
- Metadata Collection in Custom Database + Web front end
- BASECAMP for shared project management & communication
- LUNA Insight for building image collections
- eXtensible Text Framework (CDL project) for XML report
- BESafe (dark archive for master images)
Adler Planetarium

The Adler Planetarium & Astronomy Museum was conceived in 1928 on a visit to Europe by Max Adler, a retired executive with Sears, Roebuck & Co. There he saw the newly invented Zeiss planetarium projector, which reproduced the night sky with unparalleled accuracy inside a domed theater. Upon his return, he donated a Zeiss projector to the people of Chicago, with money to build an edifice to house it. The landmark 12-sided building that resulted was designed by Ernst Grunsfeld and opened in 1930 on a small island connected to the shore by a causeway. It was the first modern planetarium in the Western Hemisphere. During the Century of Progress Exhibition (1933–34) a million and a half people visited the planetarium and museum. Its unique position on Lake Michigan offered then, as it does now, the best view possible of the Chicago skyline.

Even before the planetarium opened its doors, Philip Fox, the Adler’s first director, had persuaded Max Adler to purchase the famed Mergia Collection of historic scientific...
eXtensible Text Framework (XTF) for Report
Summary - Lessons Learned

- The project should have started a year before – so that much of the “backroom” work would have already been done!
- A project like this is very labor intensive – staff support should have been written into the grant.
- Cooperation between campus groups brings added value.
- Transfer to archives of physical materials housed in DCM.
- Build on the model used to create future Archives & DI projects.

- Scholarly content can be found in unexpected places.
- Appreciation for a partner that brings a project manager to the table.
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- Deborah Ludwig, dludwig@ku.edu