Student Assistants at the Design and Construction Archives: Learning Outcomes and Program Support

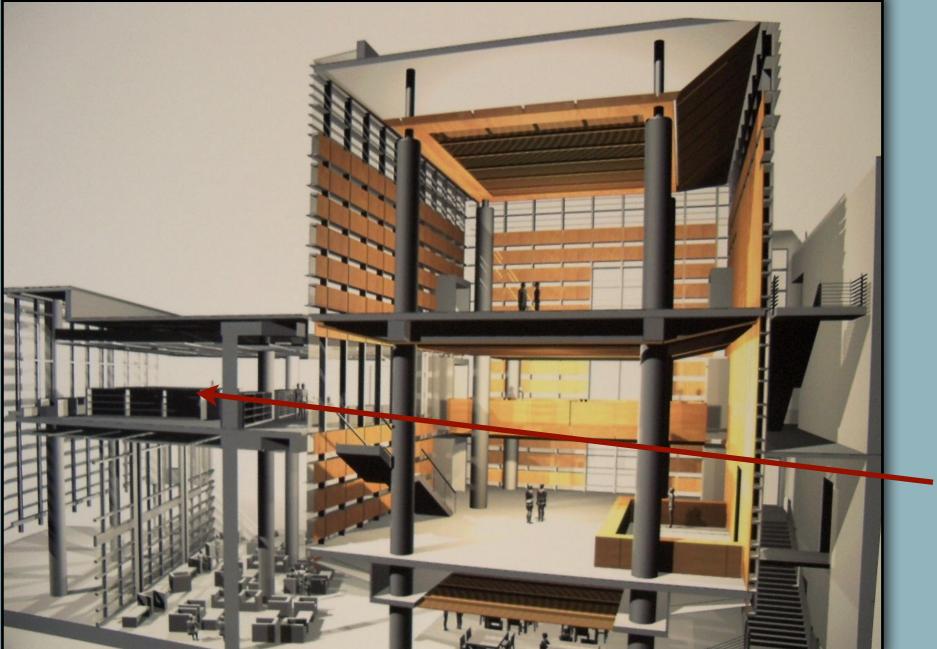
Jordan Thaw & Mary Weppler, UC Merced's Design and Construction Archives

Background

UC Merced's Design & Construction Archives was established in July 2012. As a new program, workflows and initiatives needed to be created in order to organize and manage the vast number of records, both physical and digital, that had been created throughout our young campus's 10 years of planning, design and construction.

Students have been critical to the success of this program. Student Assistants in the archive are trained to catalog physical materials and to digitize, curate, and save digital records within databases of structured classification schemes. Each campus building and infrastructure project consists of thousands of documents. It is a significant responsibility to maintain the records of campus planning, design & construction; many records have an "in perpetuity" retention period, and simultaneously there is the added complexity of preserving both physical and digital formats.

Fig. 1 Digital Rendering from the Archives, Kolligian Library Concept Drawing, early 2000s

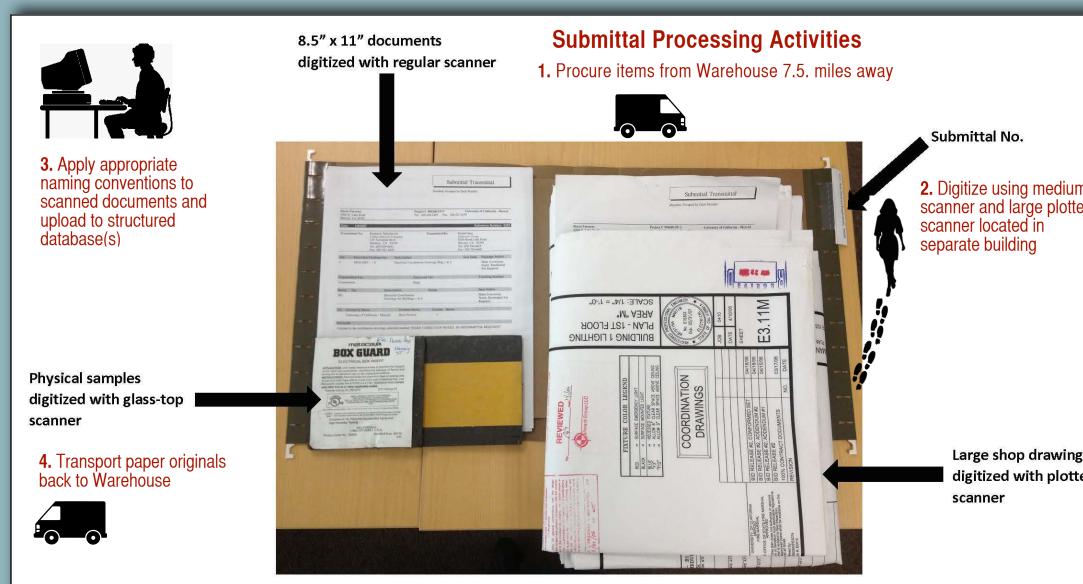


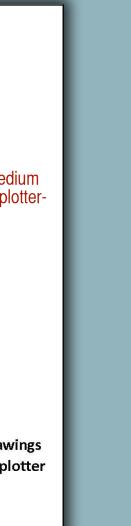
'ou are here!

Hypothesis

Student Assistants employed and trained by the Design & Construction Archives learn skills in information organization, including digitization and classification of both physical (analog) and digital documents. In turn the archives achieves a consistent level of service and program support; these activities are crucial to preserving the institutional record by providing access to and preservation of valuable records required for long-term retention. This presentation explains the kinds of skills learned by students, and also presents assessment of their success by a quantitative review of their contributions to the Archives' collections.

Fig. 2 Submittal- Hundreds of files like this one are created for each campus structure; a single file may comprise shop drawings, material data, samples & product data. Most of the campus submittals were created in physical format only. Student assistants have digitized thousands of files like this one, files that are required to be retained in perpetuity by UC's Office of the President.





Assessment: Student Assistant Training

Software & Database Training

Adobe Acrobat Professional **Box** Cloud Content Management System Archivists' Toolkit Open Source Cataloging software

ArchivesSpace Open Source Cataloging software **DSpace** Open Source Digital Repository software

Sevent Se

Prolog Construction Administration Database

Information Organization & Customer Service Training

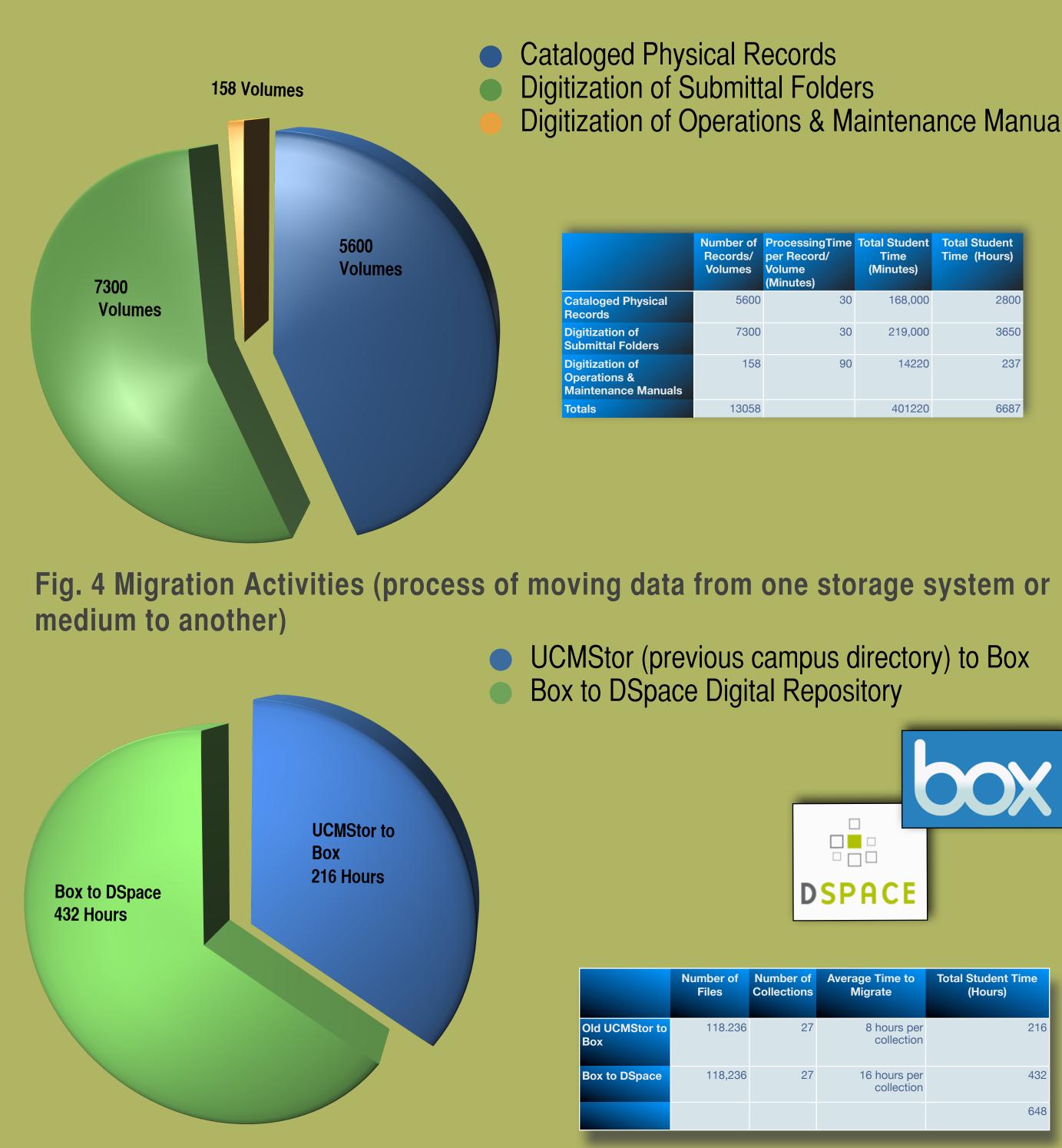
Arrange and describe archival records into standardized classification schemes Catalog and preserve paper documents (remove harmful fasteners; preserve architectural plans

with cotton string and by wrapping in plastic)

Apply appropriate file-naming standards to digital files Provide customer service in an information environment (document placement, retrieval and distribution; assisting users with information requests)

Assessment: Program Support Statistics & Graphs August 2012 – February 2015

Fig. 3 Number of Records/Volumes Processed

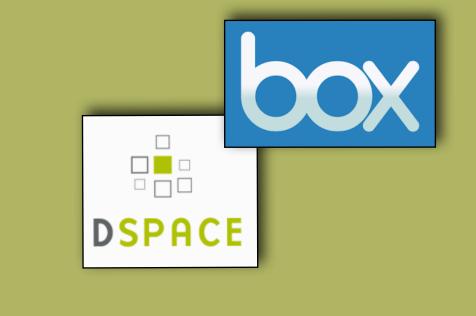


Cataloged Physical Records Digitization of Submittal Folders

Digitization of Operations & Maintenance Manuals

	Number of Records/ Volumes	ProcessingTime per Record/ Volume (Minutes)	Total Student Time (Minutes)	Total Student Time (Hours)
ged Physical Is	5600	30	168,000	2800
ntion of tal Folders	7300	30	219,000	3650
ntion of ions & nance Manuals	158	90	14220	237
	13058		401220	6687

 UCMStor (previous campus directory) to Box Box to DSpace Digital Repository



	Number of Files	Number of Collections	Average Time to Migrate	Total Student Time (Hours)
UCMStor to	118.236	27	8 hours per collection	216
to DSpace	118,236	27	16 hours per collection	432
				648

Results

Student Assistant (SA) Learning Outcomes

- <u>management system</u>.
- and consultants.
- noted above.

Fig. 5 Digital File-Naming Tutorial

Name hierarchically, from general to specific (see example below). Use acronyms and abbreviations when possible. Keep your length short and descriptive. Use underscores when naming single files. Do not use the following symbols in filenames:
#, %, &, {, }, \, /, <, >, *, ?, blank spaces, ., =, :, ;, |, @, !, ", +, ~, [,] If there are several versions of a file in one folder, nclude the **date** in the filename using the following date convention: yyyymmdd i.e., "TAC_agenda_20140407" Use the **Projects** index in the Projects folder in order to find the appropriate project acronym and for a list of common abbreviations. Example

SSB_McCarthy_CO_001

Program Support Results Summary

Cataloging of approximately 5600 physical (analog) records digital repository DSpace (currently 27 major collections) <u>California</u> (81 volumes).

Conclusion

Student Assistants employed and trained by the Design & Construction Archives acquire several skills in organizing information. Examples include applying text recognition and appropriate file-naming conventions to digital files, learning to utilize office equipment for a variety of scanning purposes, and using structured databases to ensure that physical and digital documents are properly classified for long term access & preservation. In turn, the D&C Archives achieves a consistent level of program support.

References & Acknowledgements

Society of American Archivists Glossary of Archival Terms & Terminology, n.d., Internet resource UCOP Construction Services Glossary, n.d., Internet resource Waverly Lowell, Archivist, Environmental Design Archives, UC Berkeley



SAs learn to utilize software applications for digital curation activities. For example, Adobe Acrobat Professional is utilized to apply OCR (optical character recognition) and to bookmark documents; such activities maintain the integrity of the original analog document while simultaneously enabling greater search functionality.

SAs learn to use several databases through which information is organized, shared, and maintained. These databases include Box, DSpace, ArchivesSpace, Archivists' Toolkit, Facilities Link, Prolog, and the department's website/content

SAs learn customer service in an information environment. Knowledge of the infrastructure that supports information requests begins by teaching students how to place information in databases of structured classification schemes. Such standardized practices result in efficient search and retrieval of information. Students interact directly with users in satisfying information requests, including campus staff, legal counsel, auditors, construction managers, architects

SAs learn to utilize office and industrial scanners to digitize documents previously available only in analog/paper format. Students apply appropriate naming conventions to documents, placing them within classified file structures as

> Fig. 6 Online Archive of California Finding Aid, Renderings and Maps, UCM, curated by campus planner Richard Cummings and student assistant Leslie Anderson. IAO 🧇 Home Browse Institutions Browse Collections Browse Map About OAC PDF (114.69 Kb) 💽 HTML Maps, University of California Merced R.002 ollection Number: earch this collection Entire Collection Guide
>
> Online Items able of contents 🔞 Collection Overvie Scope and Contents Access Collection Contents Long Range Development Plan Artist Concept Cliff Lowe Architectural Renderings Doug Jamieson Architectural Renderings
> Garden Suites and Lakeview Dining Architectural 002 (2002 LRDP Image 14

- Digitization of 158 Operations & Maintenance manuals (binders are 3–4 inches wide)
- Digitization of approximately 7300 design & construction submittals and shop drawings
- Setting up standardized file structures for collections of all campus buildings and infrastructure projects in the archives'
- Migration of legacy data from Box into DSpace digital repository (currently 118,236 digital documents)
- ©Curation of the Archives' digital collection of UC Merced maps and architectural renderings to the Online Archive of

- Hensen, Steven L. Describing Archives: A Content Standard. Chicago: Society of American Archivists, 2004.