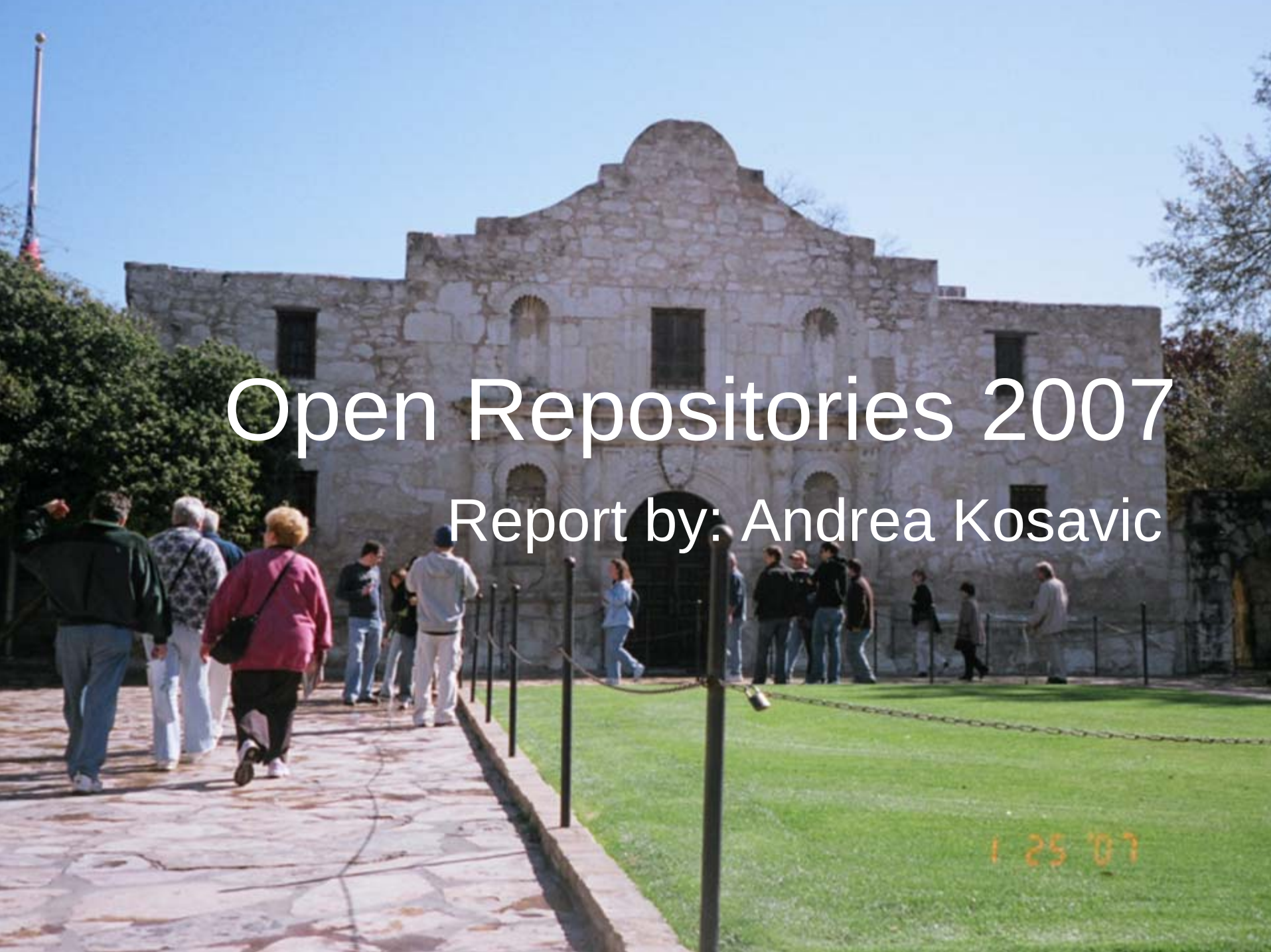


Open Repositories 2007

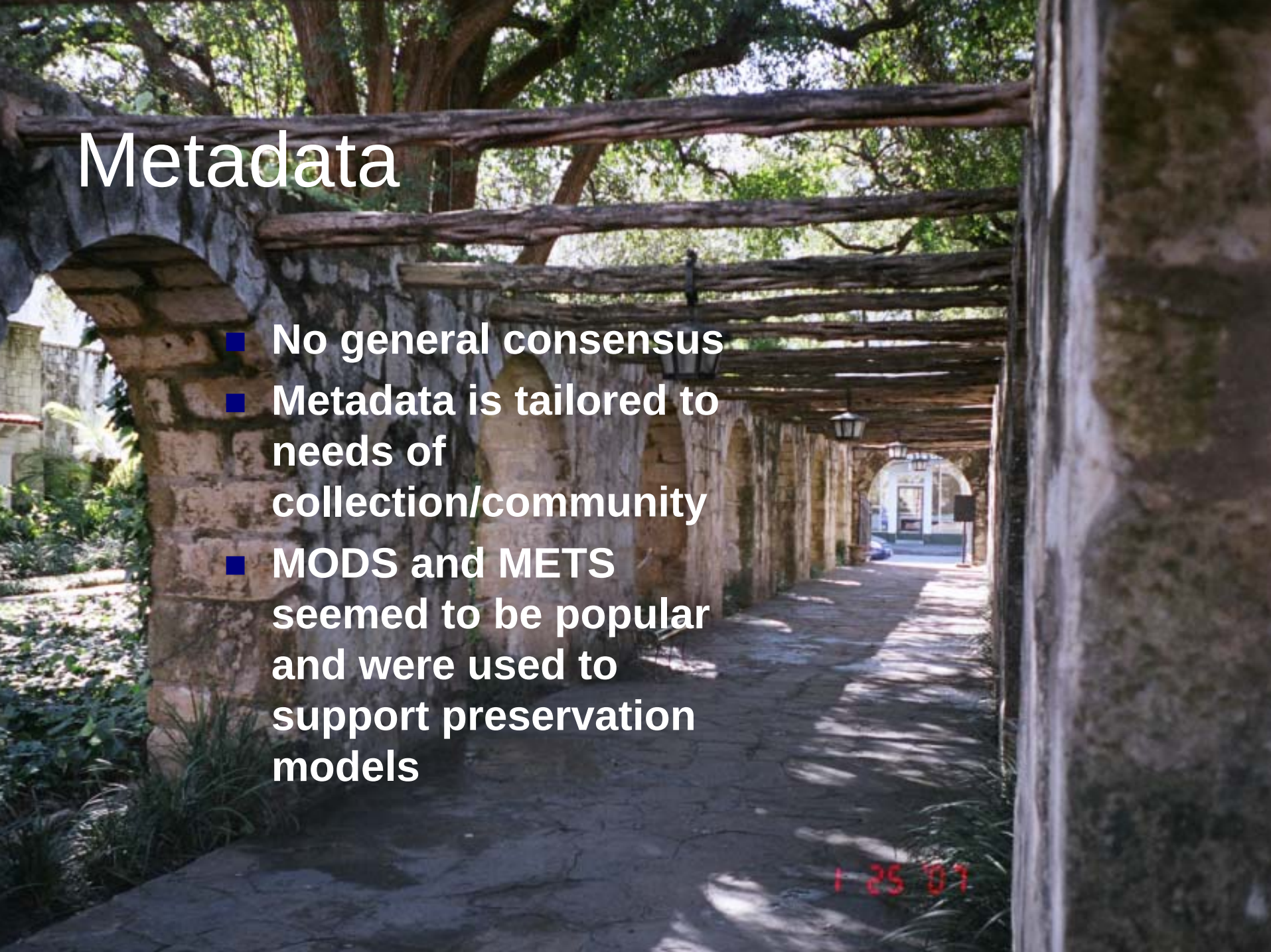
Report by: Andrea Kosavic

Challenges for Digital Repositories

- Difficult to populate repositories
- Service-intensive
- Cost - staffing required…librarian(s) + programmer(s) + student help, these costs absorbed by institutions
- Appearance
- Interoperability

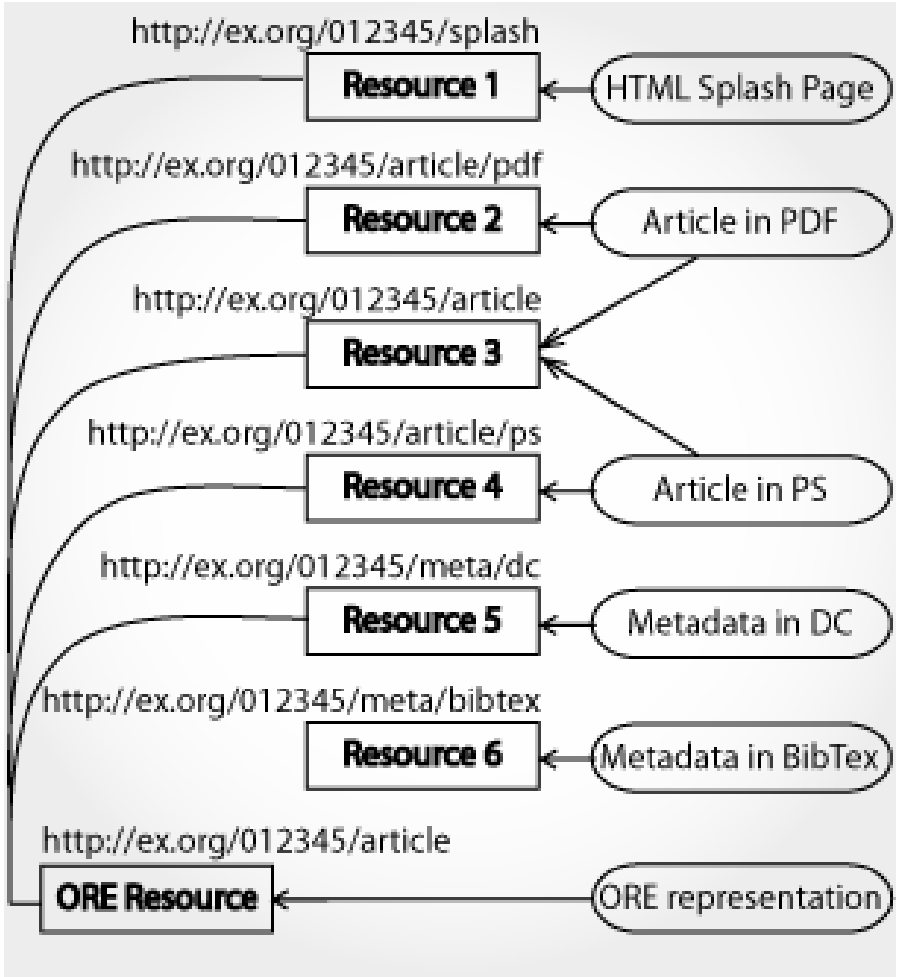
Metadata

- No general consensus
- Metadata is tailored to needs of collection/community
- MODS and METS seemed to be popular and were used to support preservation models



OAI-ORE

- OAI is now referred to as OAI-PMH or OAI-ORE
- OAI-ORE will provide a way to describe a citable complex digital object, an aggregation of objects (ie. Scholarly communication now also includes data sets, supplementary graphics, primary source material as well as references to previously publish objects)
- The relationships between resources are usually not well defined. ORE seeks to build a framework for the semantics of links between objects in a scholarly communication environment.



http://dltj.org/tag/oaiore/

Digital Preservation

- DSpace is used as the back end for digital preservation systems
- This is encouraging as institutions view DSpace as an enduring solution
- NYU is customizing DSpace to work with the OAIS model

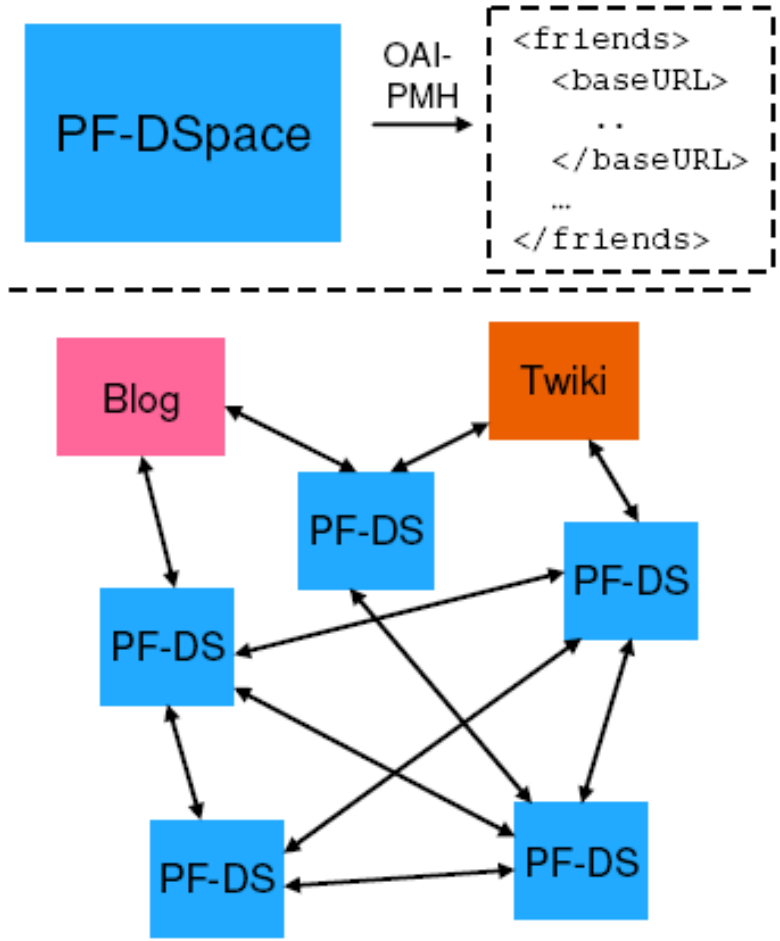
Interoperability

- Very popular topic…theme of conference
- Australian National University showed a demo for moving objects between DSpace and Fedora
- ANU has created a DSpace Export Plugin that parses OJS to create DSpace XML
- Hewlett Packard is working on PF-DSpace (peer-federated) that will allow easy federation of DSpace as control will be shared equally among nodes

Interoperability continued…

Builds on DM-DSpace…

- **Modularizes** DM-DSpace implementation so that the basic capabilities are compatible with emerging releases of the DSpace standard distribution
- **Generalizes** DM-DSpace model of federation to include capabilities such as selective harvesting and metadata-only harvests
- **Introduces a "peer federation" approach** to DSpace node discovery that eliminates the need for special-purpose repository indexing services



http://lsal.memphis.edu/wfadl/cordra/calendar/events/event20061113/presentation/erickson.pdf

The Dark Archive

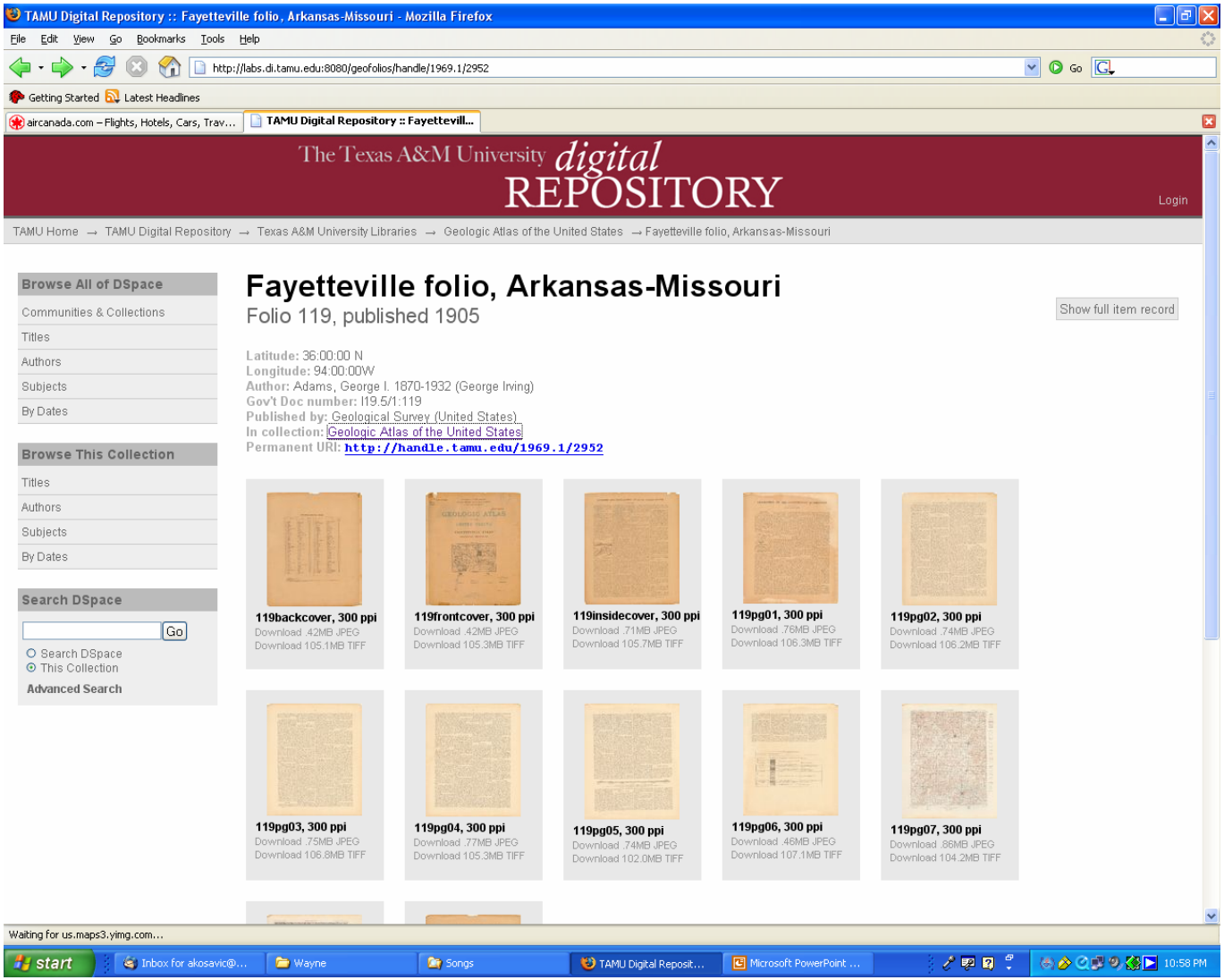
- Can be used to store master TIFFS
- Integrate as part of the scanning workflow
- Ideal for copyrighted works
- Benefits include full text indexing and preservation

- http://smartech.gatech.edu/handle/1853/13171

Manakin XML User Interface (UI)

- Developed by Texas A&M
- Allows for quick and easy customizations of DSpace user interface, without altering the underlying JSP code
- Very popular with presenters and conference delegates
- This is a very exciting opportunity for us to present our digital collections

Manakin allows for thumbnail display alternatives



http://labs.di.tamu.edu:8080/geofolios/handle/1969.1/2952

Manakin allows for easy integration of impressive features, such as the Yahoo Maps API

http://labs.di.tamu.edu:8080/geofolios/handle/123456789/2

BibApp

- University of Wisconsin, Eric Larson
- Takes a professor's citations from RefWorks, checks them against Sherpa/Romeo, packages them up for DSpace ingest
- This can rapidly populate Digital Repository
- Code will be released at Code4Lib, March 1, 2007

Mashup

1 

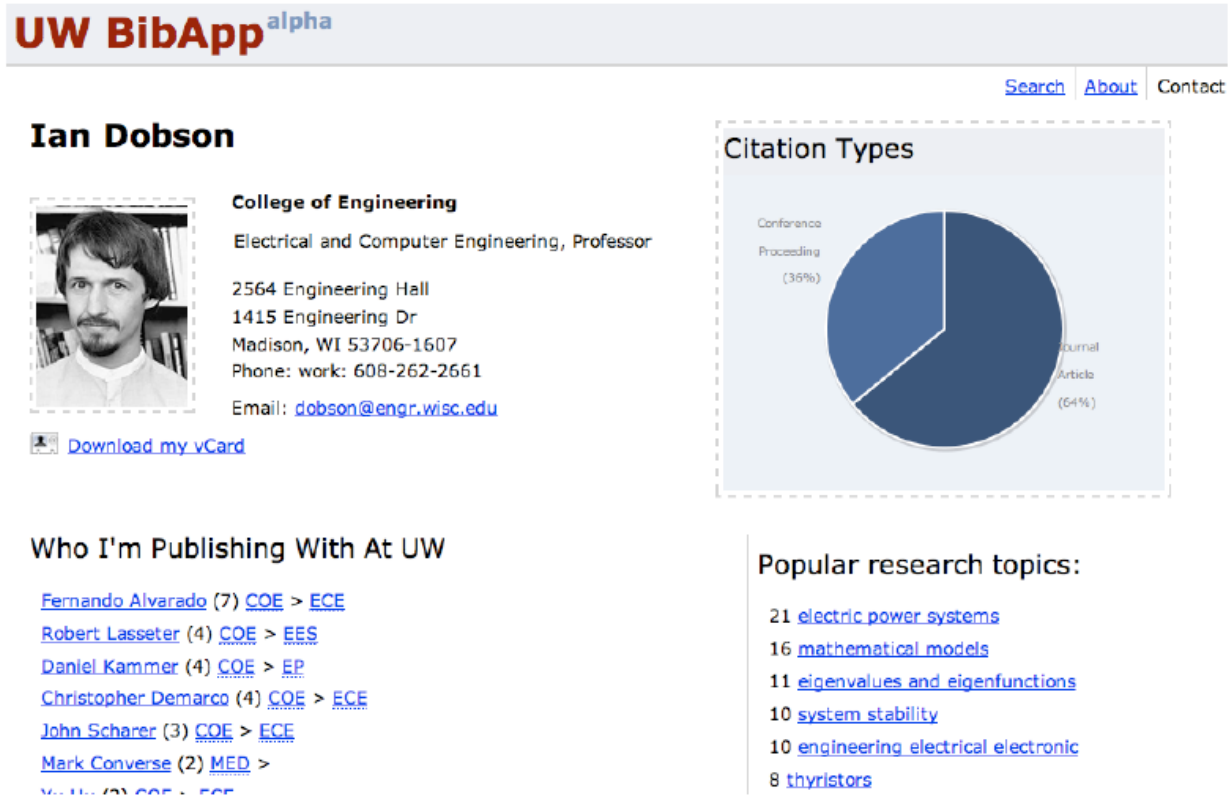
+2 RefWorks

+3 SHERPA RoMEO

+4 MINDS @ UW

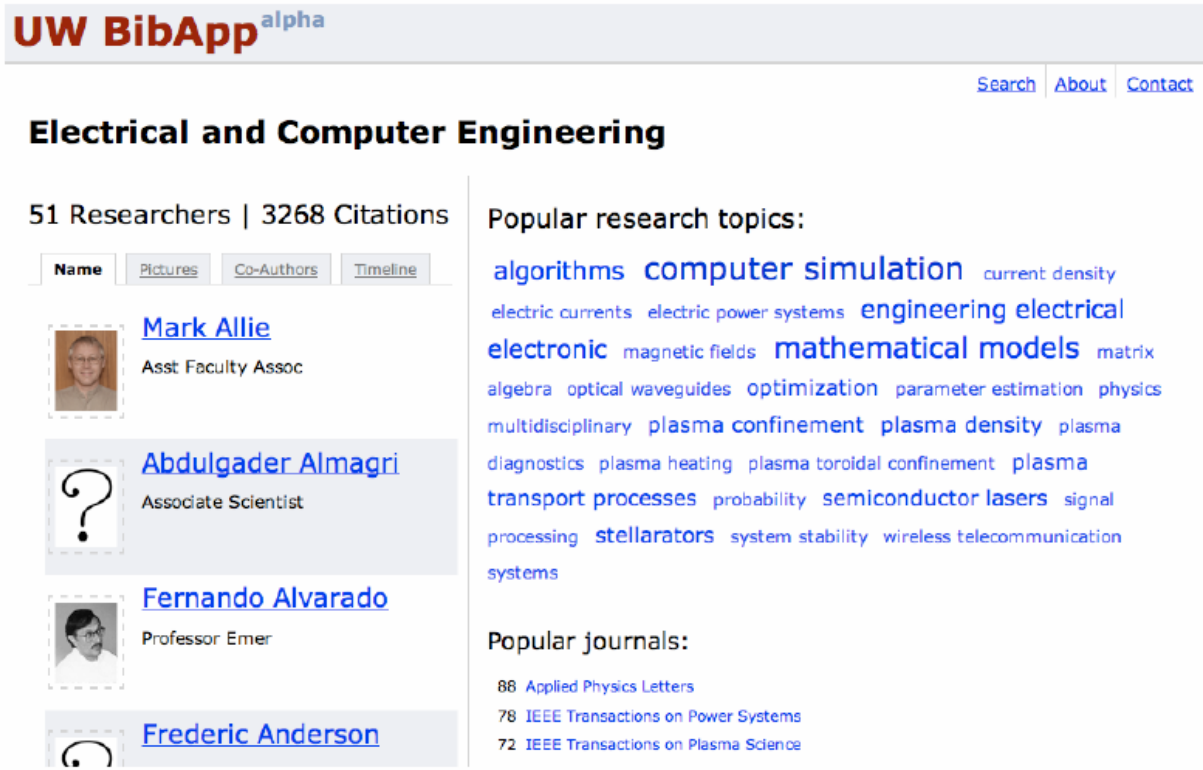
BibApp continued…

- BibApp UI shows a profile for each professor
- Displays the professor's publishing network, popular research topics, and citation types.



BibApp continued…

- Sorts information by department
- Browse by professor's name, popular research topics, popular journals



Semantic Web

- SIMILE project at MIT
- Devised a way to harvest heterogeneous metadata
- The solution is RDF…use the RDFizer to convert metadata into RDF
- The tool can be pointed at websites, repositories, etc. (Special tool developed for DSpace)
- This scraped data can then be viewed through Longwell, which is a faceted browser, web application, and configurable UI

http://simile.mit.edu/

PROJECTS

- Babel
- Exhibit
- Fresnel
- Gadget
- HTTPTracer
- Java Firefox Extension
- Longwell
- Piggy Bank
- RDFizers
- Referee
- Solvent
- Semantic Bank
- Timeline
- Welkin

SERVICES

- Blog
- Wiki
- SIMILE's Bank
- Code Repository [History]
- Issue Tracking
- Mailing Lists
- Continous Integration
- History

ABOUT

- About SIMILE

Semantic Web continued…

- DWell is a longwell configuration created especially for DSpace
- Dwell is embedded into DSpace as an advanced search UI
- DWELL can help put facet restrictions to help drill down by type of object, community, etc.
- DWELL's facets can be selectively displayed, can check off boxes to create disjunctive restrictions
- DWELL's data can be shown as a table, timeline, geospatial
- http://simile.mit.edu/exhibit/examples/presidents/presidents.html

Digital Collections Possibilities

- Manakin as our user interface
- Dark archive
- Improve scanning workflow & preservation
- DWell for displaying select digital collections
- Use BibApp to populate DSpace with scholarly content
- Try out Yahoo Maps API for Geospatial Representation
- DM-DSpace for Synergies


Questions?