

University of Massachusetts Medical School

eScholarship@UMMS

University of Massachusetts and New England
Area Librarian e-Science Symposium

2012 e-Science Symposium

Apr 4th, 12:00 AM - 3:00 PM

Librarian Panel Discussion presentation: "The Data Working Group at UMass Amherst"

Rebecca C. Reznik-Zellen

University of Massachusetts - Amherst

Follow this and additional works at: https://escholarship.umassmed.edu/escience_symposium



Part of the [Library and Information Science Commons](#)



This work is licensed under a [Creative Commons Attribution-Noncommercial-Share Alike 3.0 License](#).

Repository Citation

Reznik-Zellen, R. C. (2012). Librarian Panel Discussion presentation: "The Data Working Group at UMass Amherst". *University of Massachusetts and New England Area Librarian e-Science Symposium*.

<https://doi.org/10.13028/ccp3-p290>. Retrieved from https://escholarship.umassmed.edu/escience_symposium/2012/program/12

Creative Commons License



This work is licensed under a [Creative Commons Attribution-Noncommercial-Share Alike 3.0 License](#).

This material is brought to you by eScholarship@UMMS. It has been accepted for inclusion in University of Massachusetts and New England Area Librarian e-Science Symposium by an authorized administrator of eScholarship@UMMS. For more information, please contact Lisa.Palmer@umassmed.edu.

THE DATA WORKING GROUP AT UMASS AMHERST

4th Annual University of
Massachusetts and New
England Area Librarian
e-Science Symposium

April 4, 2012

Rebecca Reznik-Zellen
University of
Massachusetts Amherst

THE LIBRARY'S ROLE

“Roles for librarians in digital data curation will fall into one or more of three tiers:

- National infrastructure;
- **Campus infrastructure;**
- Professional development and education.”

Anna Gold. "Data Curation and Libraries: Short-Term Developments, Long-Term Prospects" *Office of the Dean (Library)* (2010). Available from <http://works.bepress.com/agold01/9/>.



<http://www.flickr.com/photos/douglasspics/4442810823/>

CAMPUS INFRASTRUCTURE



Abigail Goben, CiL 2012 <http://www.slideshare.net/AbigailGoben/data-101?>

UMASS AMHERST

Stats

- +21,000 undergraduates
- +6,000 graduate students
- 1,174 full-time instructional faculty
- 60 doctoral and 78 master's degree programs in 8 schools and colleges

FY 2011

- \$143.5 million of sponsored research
- 1,094 awards from 1,233 proposals
- 624 federal awards (38% NSF)



<http://www.flickr.com/photos/41700051@N06/5652224230/>

UMASS AMHERST

Also

- 2006 Faculty Senate Policy on Data Ownership, Retention, and Access
- 2008 ARL-CNI Fall Forum “Reinventing Science Librarianship”
- 2008 Massachusetts Life Science Initiative
- 2008 Five Campus Science Librarians and Library Directors convene and form *Ad Hoc* Committee for e-Science....



<http://www.flickr.com/photos/41700051@N06/5652224230/>

UMASS AMHERST LIBRARIES

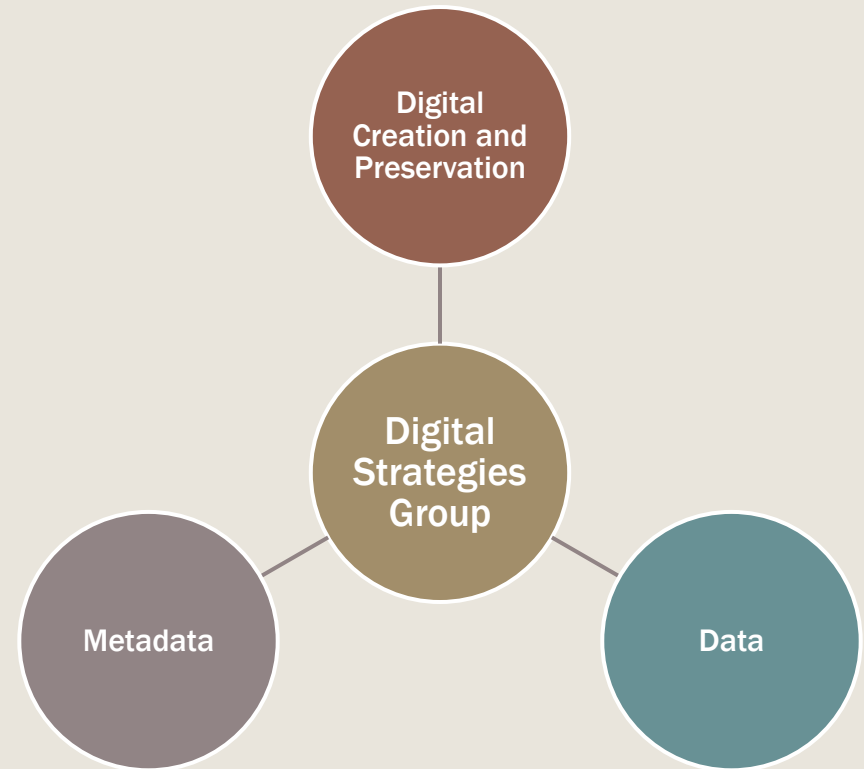
	Enrollment (primary majors and grad students)	Degrees Awarded (BA, MA, PhD)	Liaison Librarians
HFA, SS, Mgmt	10,965	3994	14
Sci, Eng, Health Sci	11,272	2519	4



<http://www.flickr.com/photos/41700051@N06/5652224230/>

UMASS AMHERST LIBRARIES

- 2009 Digital Strategies Group
 - Informal network of committees
 - Digital content created and collected by the libraries
- 2010 Proposal for Data Working Group submitted and accepted



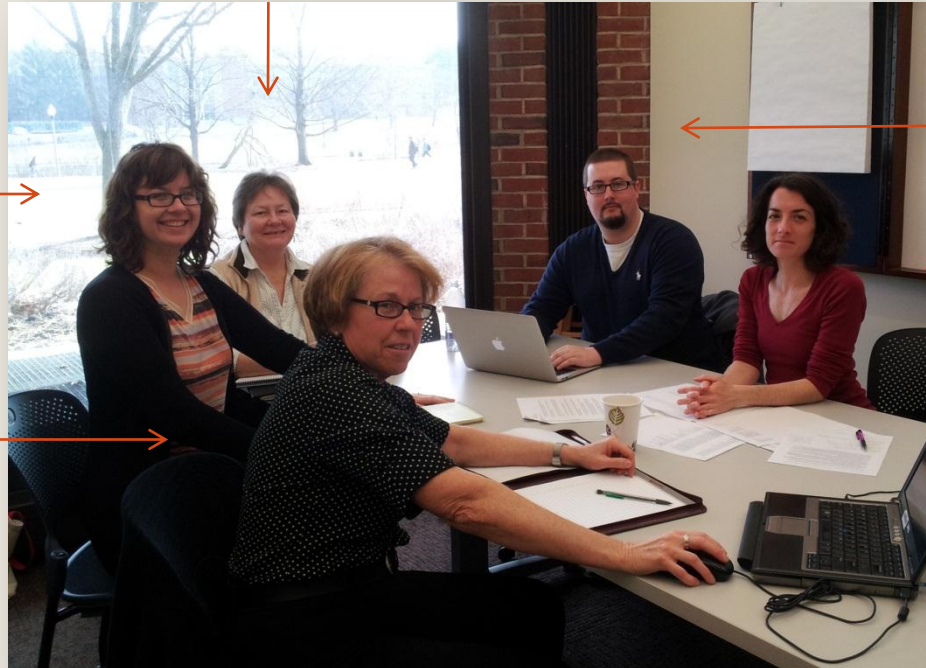
DATA WORKING GROUP

Head, Science and Engineering Library

InterNano Project
Manager

Head, Systems and
Web Management

Social Sciences
Bibliographer (not
pictured)



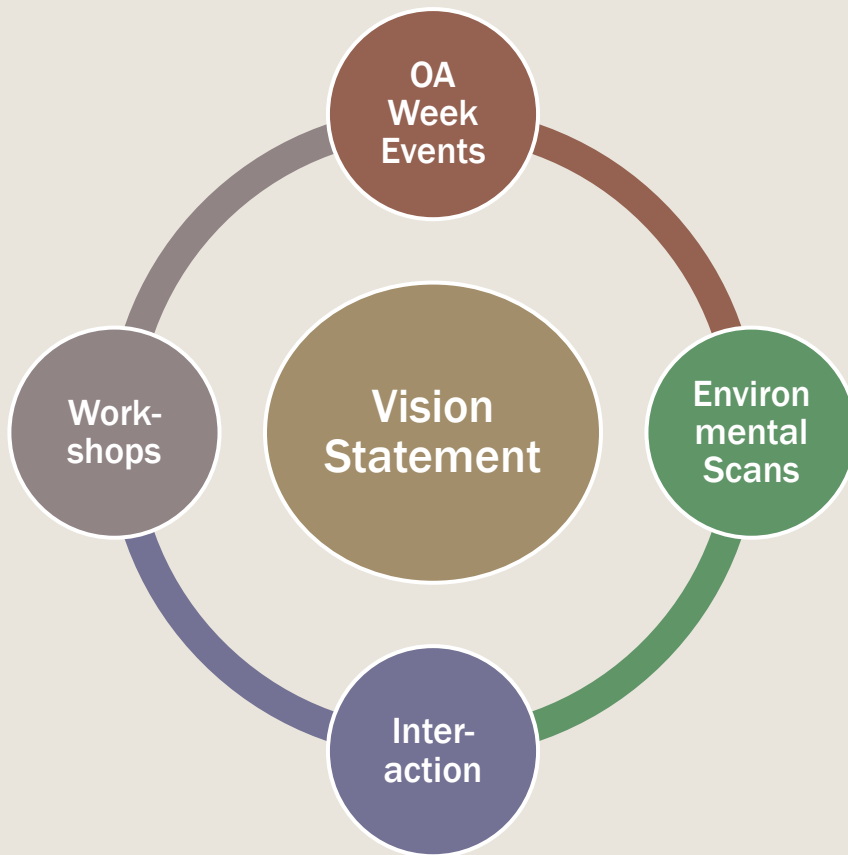
Digital Repository Resident

Digital Strategies Coordinator

- Special Collections and University Archivist
- Programming and Database Developer

Determine if the University Libraries should accept broad responsibility for curating research data and, if so, how that should be done, what would be expected, and who would be involved (2010).

DATA WORKING GROUP



“DWG envisions the library as a full partner in the campus-wide research enterprise by offering, independently and in collaboration with other campus entities where appropriate, the full spectrum of data management services to our community and by building in-house expertise in data management.” (2011)

TIERS OF RESEARCH DATA SUPPORT SERVICES

Web Audit Generalized Findings

- Service levels emerged based on degrees of librarian involvement with researchers and their data.
 - **Education: Providing information resources to faculty**
 - **Consultation: Interacting one-on-one with faculty**
 - **Infrastructure: Taking stewardship of faculty research data**
- Level of service is commensurate with inferred degrees of organizational and infrastructure support.
- Service levels add granularity to Gold's campus-based data curation tier.

Reznik-Zellen, Rebecca C.; Adamick, Jessica; and McGinty, Stephen (2012) "Tiers of Research Data Support Services," *Journal of eScience Librarianship*: Vol. 1: Iss. 1, Article 5. [doi:10.7191/jeslib.2012.1002](https://doi.org/10.7191/jeslib.2012.1002)

EDUCATION

Libraries educate their communities about data management

- Low-investment strategy with some opportunities for engagement with campus community.
- Education is a traditional role for libraries; data management expands the repertoire by targeting researchers at an earlier stage of the research process.

The image shows a screenshot of the UMass Amherst Libraries website. The top navigation bar includes 'Services', 'About the Libraries', 'Research', 'Collections', and 'Search Tools'. The main content area is titled 'Data Management' and features a 'Data Management Resources' sidebar. The central text discusses the 'Data Working Group and Data Management' and lists several services provided, such as reviews of Data Management Plans for NSF, workshops on data management best practices, consultations on metadata and standards, and provision of online locations for faculty's ScholarWorks. A 'Good Practice for Data Management' section is also visible, along with a 'DATA MANAGEMENT WORKSHOP' announcement for Tuesday, March 27. A large orange overlay on the right side of the screenshot contains the text for 'Open Access Week 2011 Challenges and Opportunities for Data Sharing', including a panel discussion on data with Limer Peer, Lisa Hinder, and Sarah Miller. The event is scheduled for Tuesday, October 25, 2011, from 12:00 to 1:30 pm at the Du Bois Library, room 2601.

CONSULTATION

Libraries consult with faculty and researchers on a variety of issues relevant to the management of research data.

- Mid-range investment strategy requiring commitment of librarians and library administration.
- Expands battery of library services in a relevant manner.

The screenshot displays the UMass Amherst Libraries website. The header includes the logo and navigation tabs for Services, About the Libraries, Research, Collections, and Search Tools. The main content area is titled "Data Management Plan Guidance" and features a sidebar with navigation links for "Data Management Plan Guidance", "Consultation and Review", "Workshops", and "Data Working Group". The main text provides an overview of the "Data Management Plan Template" and lists several key sections: "Project Overview", "Authors/Investigators", "Data Description", "Data Storage", and "Access and Dissemination". Each section contains specific questions and instructions for creating a data management plan.

UMass Amherst Libraries

ask a Librarian

Services » Services for Faculty » Data Management » Data Management Plan Guidance

Data Management Plan Guidance

A data management plan describes how data will be created, managed, stored, accessed, and shared during and after a research project. The details of a data management plan will vary depending on the circumstances of the project, but each data management plan should strive to accurately describe the characteristics and context of the data and to outline the parameters for its preservation, access, and dissemination.

University of Massachusetts Amherst Data Management Plan Template

A data management plan describes data generated or used for a given project and states how that data will be created, managed, stored, accessed, and shared during and after a research project. The details of a data management plan will vary depending on the circumstances of the project, but each data management plan should strive to accurately describe the characteristics and context of the data and to outline the parameters for its preservation, access, and dissemination.

This is a general template designed to inform the development of a data management plan. The elements below respond to the requirements of the National Science Foundation mandate for Data Management Plans and are based on several similar guidance documents (see below). A given data management plan may not need to include each element listed below; however, it is helpful to think about each element when crafting a plan.

Project Overview:

Authors/Investigators:
Proposal/Project Name (reference to main proposal):
Narrative description of data to be created/used:

Data Description:

Type (observational, computational, experimental):
Size of data sets:
How is the data created/acquired:
What format/s are the data in (what are the file types being used):
What are the required software/facilities/equipment/hardware to access and analyze the data:
Describe any metadata or standards that will be applied to this data:
What procedural documentation exists for the creation/management of data:

Data Storage:

What systematic backup procedures, including systems description, are in place for the data:
How long will data be stored:
What security mechanisms are required for the data and how will they be implemented:

Access and Dissemination:

Who owns the data (intellectual property rights information):
Are there privacy or confidentiality constraints on the data being used/generated:
Who will have access to the data during the project/after the project:
What data will be shared (raw/derived /published):
How will you provide access to the data:

- what software will be required to access the data
- what metadata will be used to discover the data
- how will technical delivery of data be implemented

Showing events after 3/1

Friday, March 9
5:00pm RSVP Deadline

Tuesday, March 27
10:00am Data Management

Data Management Plan

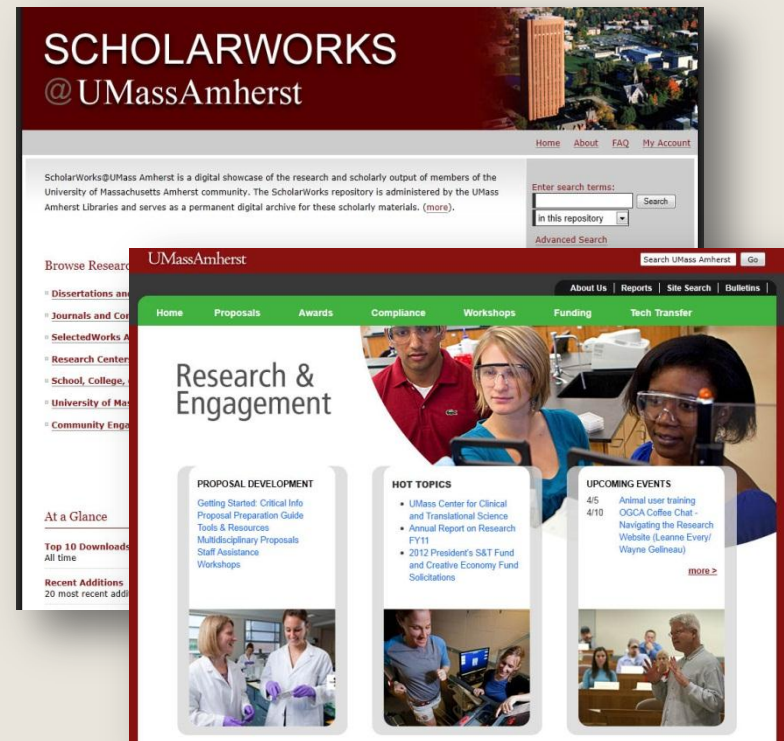
This is a general template designed to inform the development of a data management plan. The elements below respond to the requirements of the National Science Foundation mandate for Data Management Plans and are based on several similar guidance documents (see below). A given data management plan may not need to include each element listed below; however, it is helpful to think about each element when crafting a plan.

Download Template (PDF)

INFRASTRUCTURE

Libraries provide infrastructure for data management and data curation to their campus communities.

- High-investment, long-term strategy that requires the support of not only the Library but other campus entities.
- Opportunity to expand the library's role on campus, but requires extensive scoping.



- Activity one
- Activity two
- Activity three
- ...

Tiers of Service

Education

Consultation

Infrastructure

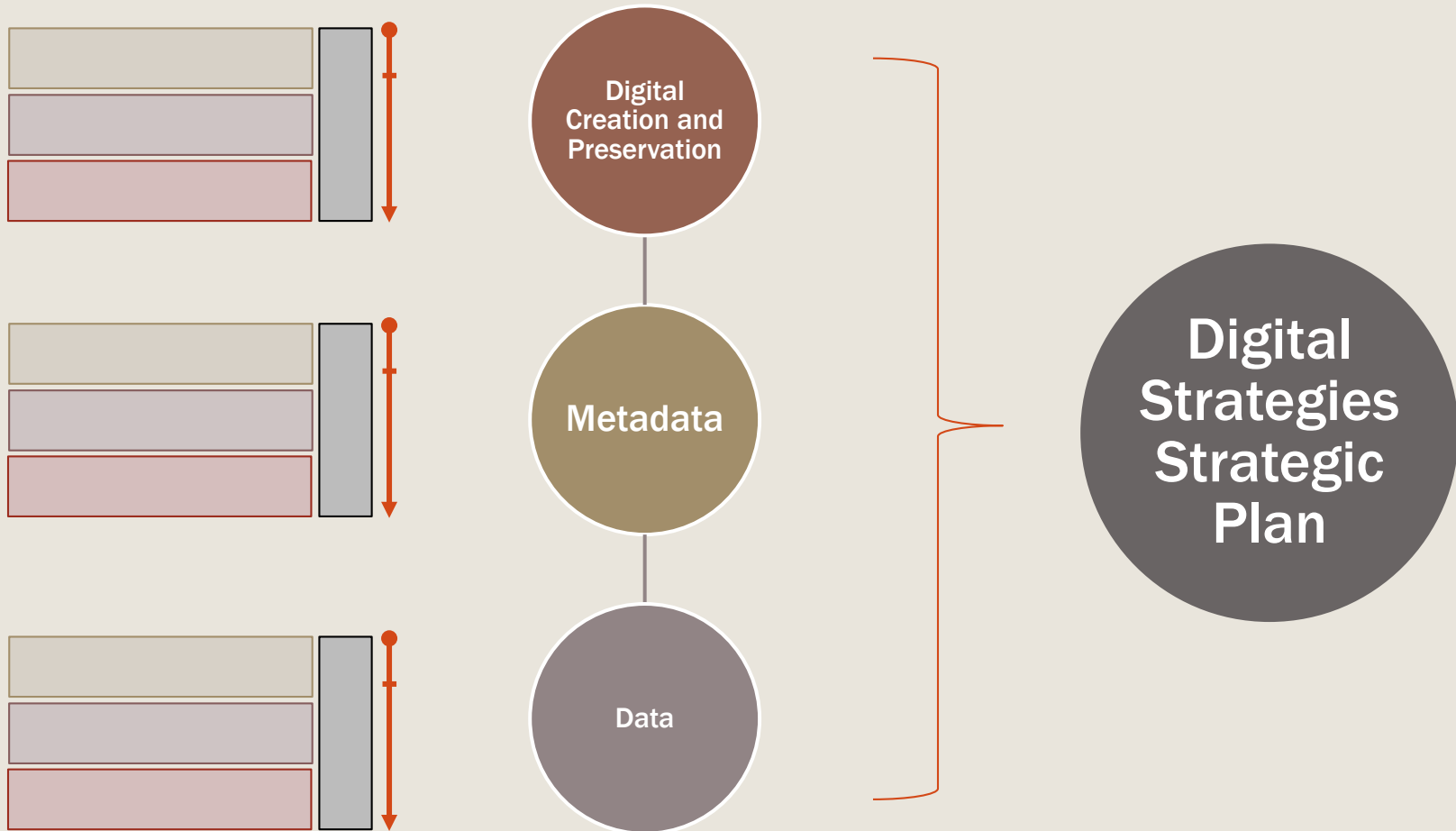
YOU
ARE
HERE

Resources

Time
(years)

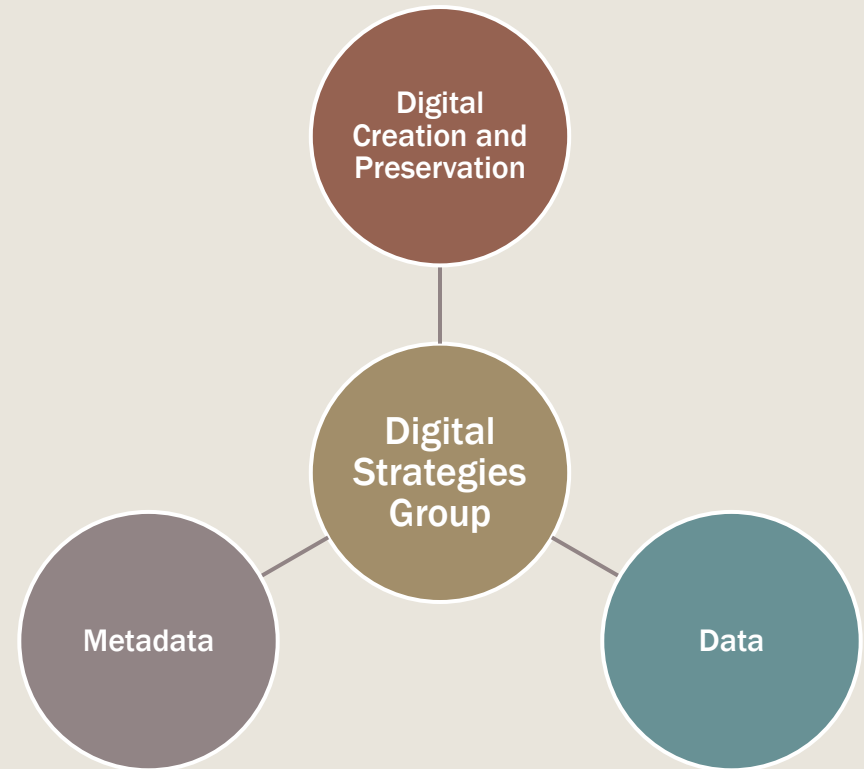
Library Functions

INTEGRATING DATA SERVICES



UMASS AMHERST LIBRARIES

- 2012 Digital Strategies Group finalizing Strategic Plan
 - Integrated support for digital scholarship
- Working Groups continue efforts focused on education and consultation activities



THE DATA WORKING GROUP AT UMASS AMHERST

Acknowledgements

Jessica Adamick, InterNano Project Manager

MJ Canavan, Head, Systems and Web Management

Steve McGinty, Social Science Bibliographer

Maxine Schmidt, Head, Science and Engineering Library

Matt Sheridan, Digital Repository Resident