March 4, 2008

Cyberinfrastructure and the Transformation of Libraries

Marilyn S Billings, University of Massachusetts Amherst

Available at: https://works.bepress.com/marilyn_billings/20/
Cyberinfrastructure and the Transformation of Libraries

Marilyn Billings
Scholarly Communication Librarian
University of Massachusetts, Amherst
mbillings@library.umass.edu
Outline of Talk

- Library 2.0
- Next Generation Catalogs
- Scholarly Communication
- Digital Publishing / Media Centers
- New Partnerships and Roles
Library 2.0

- Web 2.0 technologies
- User-centered change
- Review services using patron input
- Create new services regularly
Why an alternative interface?
Next Generation Library Catalogs

- Single search box, like Google
- Relevancy ranking of search results
- Faceted browsing
- Search catalog & other sources at one time
- Cover art, TOC, summaries
- Evaluative content, write reviews, comments
- Examples
### Results for 'art history technology' limited to Libraries Worldwide (WorldCat)

#### Results 1-10 of about 6,933 (0.98 seconds)

<table>
<thead>
<tr>
<th>Position</th>
<th>Title</th>
<th>Author(s)</th>
<th>Location</th>
<th>Year</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>How to read a film: the art, technology, language, history, and theory of film and media</td>
<td>James Monaco</td>
<td>New York, Oxford University Press, 1977</td>
<td></td>
<td>Book</td>
</tr>
<tr>
<td>3</td>
<td>Museum memories: history, technology, art</td>
<td>Didier Maleuvre</td>
<td>Stanford, Stanford University Press, 1999</td>
<td></td>
<td>Book, Internet Resource</td>
</tr>
<tr>
<td>4</td>
<td>The timetables of history: a horizontal linkage of people and events</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Shifting Gears

- Librarians’ roles in the scholarly communication cycle
- Traditional modes
  - Journals in the sciences
  - Monographs in the humanities
- “Crisis” of 1990s
  - Spiraling publishing costs, especially journals
  - Increasing volume of materials available in digital form
  - Lack of access
Scholarly Communication: Trends

- Scholarly communication paradigm shift
- Increasing amounts of research and scholarship in digital form
- Need to collect and preserve this material
Faculty Roles and Open Access

- Faculty Roles
  - Authors
  - Peer-reviewers
  - Editors

- Open access options
  - SPARC addendum
  - Harvard resolution
Transformation of scholarly publishing

- Traditional
- Electronic
- Future model enabled by cyberinfrastructure

From: Kennan, Mary Anne and Karlheinz Kautz. Scholarly Publishing and Open Access: Searching for Understanding of an Emerging Phenomenon [http://dlist.sir.arizona.edu/1867/]
Possibilities for scholarly publishing

- Research writing
- Scholars
- Certification
- Peer review
- Publishers, Researchers
- Responses by readers via downloads, citations, interactive comments
- Registration
- Publishers
- Repositories
- Blogs
- Wikis etc.

- Academic reward structure
- Scholars
- Input - future research & writing
- Publishers
- Libraries
- Access to wider readership e.g. funders, practitioners, patients
- Archiving
- Internet
- Web browsers
- Content aggregators
- Search engines
- Repositories
- Blogs
- Wikis etc.

- Funders
- Scholars
- Publishers
- Citation indexers
- Search engines
- Repositories

- Profit making
- Publishers
- 3rd parties
- Content aggregators
- Search engines?
ScholarWorks@UMass Amherst

Browse Research & Scholarship

Browse research and scholarship by:

- Doctoral Dissertations
- Journals and Peer-Reviewed Series
- Masters Theses
- Personal Researcher Pages
- Research Centers and Institutes
- School, College, or Department
- University of Massachusetts Press

Help us improve Scholarworks and get a $20 Amazon.com Gift Certificate! Please click here to sign up to participate in the Scholarworks User Study.

ScholarWorks@UMass Amherst is a digital repository for the research and scholarly output of members of the University of Massachusetts Amherst community, administered by the UMass Amherst Libraries.

Search over 14,000,000 open-access digital items through OAister.

Search the contents of more than 1000 open-access digital repositories at OpenDOAR (the Directory of Open Access Repositories).
Welcome to Rasenna: Journal of the Center for Etruscan Studies. This site includes the current issue of Rasenna, an archive of earlier issues, Guidelines for Contributors, and information about the composition of the Editorial and Advisory Boards. For more information about Rasenna and the Center for Etruscan Studies please contact Anthony Tuck or Rex Wallace.

Current Issue

Volume 1, Issue 1

Editorials

Rex E. Wallace (2007) The Editor’s Corner

Articles

Carlo de Simone (2007) Alcuni termini chiave della Tabula Cortonensis
Shifting Gears, Again

- Learning or Information Commons
- Teaching Commons
- Research Commons
- Digital Median Labs or Centers

- Partnerships with University and College constituents
The Learning Commons

W.E.B. Du Bois Library

Commons Hours

Spring 2008

Sun: Open 11 am
Mon - Thurs: Open 24 hrs.*
Fri: Close 9 pm*
Sat: Open 9 am - 9 pm
*Must swipe UCard to enter building between midnight - 7 am

Procrastination Station Café
Sun: 11 am - 1 am
Mon-Thurs: 8 am - 1 am
Fri: 9 am - 6 pm
Sat: 10 am - 7 pm

Complete LC and W.E.B. Du Bois Building Hours

Service Desk Hours

Some of our services have special hours. See a full list of
Spring 2008 Service Desk

The Learning Commons

The UMass Amherst Learning Commons is located on the
Lower Level of the W.E.B. Du Bois library. This new space brings
together library, technology, and other campus services in an
environment that fosters informal, collaborative work, and social
interaction. (LC Factsheet) (Photos: Today; Before and during
construction)

Members of our staff at the Learning Commons and Technical
Support Desk (577-1272), located on the Lower Level of the W.
E. B. Du Bois Library, will help you with all of the services the
Learning Commons offers.

Important Notices: Please set cell phones to vibrate while
in the Learning Commons. All spaces (including the Glass
Rooms) are first-come, first-served (unless otherwise noted by
signage). Read the Learning Commons User Behavior Policies.
Walking Escort Service (7 p.m. - 2 a.m.): Call 545-2123.

Academic Advising

News

OIT Computer Availability in
LC and on-campus
UCard access to Du Bois
Midnight - 7 a.m.
Looking for quiet?
Print to the Learning
Commons from anywhere
on campus!

Learning Commons Blog

Keep up on the latest
happenings at the LC.

Weekly Announcements
(from plasma screen)

Instant Message the LC
Desk
Welcome to The Research Commons at WSU!

"a university-based institutional repository is a set of services that a university offers to the members of its community for the management and dissemination of digital materials created by the institution and its community members. It is most essentially an organizational commitment to the stewardship of these digital materials, including long-term preservation where appropriate, as well as organization and access or distribution." Cliff Lynch, Executive Director, Coalition for Networked Information

Connect to The Research Commons

**Mission:** The establishment of "The Research Commons" allows the libraries and archives to continue our traditional role as the stewards of the university's intellectual and cultural resources by capturing, preserving, promoting, and facilitating access to the output produced by our students, faculty, researchers and community partners.

"The Research Commons" serves two purposes: to highlight the intellectual and cultural output, thereby promoting our institution; and to support easy digital access, long-term storage, and preservation of these our institutional output through a single, searchable interface based on the international standards of open access.

In addition to complementing the traditional methods of scholarly publishing, "The Research Commons" provides new avenues of disseminating scholarly materials, thereby not only benefiting the university but also the broader research community as well. "The Research Commons" (digitalcommons.wayne.edu) is intended to be a supplement to, not a replacement for, traditional publishing mechanisms such as refereed journals.

"The Research Commons" will provide an opportunity to concentrate our research into a single, central database accessible to anyone with access to the World Wide Web and a
The University of Vermont :: UVM Libraries

UVM Libraries' Center for Digital Initiatives

About

The Center for Digital Initiatives is a gateway to digital resources at the University of Vermont. These include materials such as photographs, letters, speeches, and documents, with a current emphasis on public policy and Vermont history.

More

News :: 2007-12-17

Now Available: The Louis L. McAllister Photograph Collection

New historical photograph collection available. The Louis L. McAllister Photograph collection provides a window into 60 years of Burlington area history.

Browse the Collections

Title
Dairy and the US Congress
Letters Home From Congress

Subject
Butter trade
Group portraits
Milk trade -- United States
Slavery -- United States

A-Z Title Browse

All browsing options
The Robertson Media Center's Digital Media Lab, a collaborative effort between ITC & the UVa Library, offers equipment and support for the digitization and editing of images, sound and video. DML staff assist students with digital projects and help faculty prepare electronic course materials.

Highlights

The Tibetan and Himalayan Digital Library, with help from The Digital Media Lab, is building a large, web-accessible data model involving a vast array of media types including video, images, GIS maps, 3D models, QTVR and an archival media database.

See our portfolio for more DML projects.

For more information, or to request a consultation or tutorial, call 924-7286 or email digitalmedia@virginia.edu.
The Center for Digital Initiatives (CDI) focuses its efforts in three areas:

- Production of digital materials for use in scholarship and teaching at Brown.
- Digitization of "signature collections" from Brown's world renowned Special Collections.
- Consultative services for Library and academic units undertaking digital projects.

If you are a member of the Brown Community and have a digital project that you would like to develop with the CDI, please fill out our project proposal form.

**FEATURED COLLECTION:**

Anne S.K. Brown Prints, Drawings and Watercolors

---

**News from the CDI**

- Latin American Travelogues Project Featured by Scout Report
- Garibaldi Panorama Comes to Life
- New Digital Collection: Prints, Drawings and Watercolors from the Anne S. K. Brown Military Collection
- Yiddish Sheet Music collection featured by Scout Report
Select Bibliography

