Karen Coyle

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Current

Digital Libraries Consultant
Since 2003-
Analysis of problems and issues in digital library development. Technical issues include: metadata development and coordination, rights management languages and systems, technical standards for digital materials. Policy issues include: intellectual property rights, privacy and patron confidentiality.

Some Recent Projects

2004 - Study on Rights Expression Languages
http://www.loc.gov/standards/Coylereport_final1single.pdf
2005 - Analysis of return on investment for RFID systems in California libraries, for the California State Library
2006 - Development of Digital Rights Framework, for California Digital Library
http://cdlib.org/inside/projects/rights/

Work Experience

Information Technology Specialist
1981-2003, University of California, California Digital Library
Oakland, CA

Duties

General Area: Development of on-line databases and information retrieval systems for the libraries of the 9 University of California campuses. The University of California Union Catalog is one of the largest library catalogs in the country, with over 23 million items representing 10 million titles. Until 2002, it also housed eight in-house databases of journal citations totaling 40 million records.

Project design and leadership For projects lasting 12 or more months with a team of 4-6 programmers. Analysis of each new source of bibliographic metadata; develop metadata cross-walks to internal database format; development of specialized indexing routines for the subject matter; design of a production flow for database update.

Metadata development and translation. Development of processing programs for a wide variety of bibliographic metadata. Included data analysis, program specification, creation of indexing algorithms, translation to standard character sets, including MARC8 and Unicode.

Database development. Design, write specifications, and create test environment for new databases and input sources.

Data modeling. For bibliographic, textual and numeric data resources.

Standards. Represent the University in national standards forums primarily relating to metadata and digital libraries. Served as a member of the MARC standards committee and represent the University to that group for about fifteen years total. Member of NISO committee AX for the development of the OpenURL standard.

Skills

Technology Work on mainframe, PC and UNIX platforms. A working knowledge of a variety of programming languages and tools, such as C, C++, Java, Perl, HTML. Extensive use of bibliographic data formats such as MARC, METS, OpenURL, and variety of character sets, including Unicode.

Selected previous positions	1977-1978 Researcher, Union Catalog of Periodicals Centro Nazionale Ricerche, Turin, Italy 1975-1977 Documentalist International Labor Organization, Training Center, Turin, Italy
Education	Certificate in Library Science, Specialization in Automated Information Retrieval 1980 University of California, Berkeley, Berkeley, CA Master of Library Science 1972 University of California, Berkeley, Berkeley, CA. Bachelor's Degree in Sociology 1971 University of California, Berkeley, Berkeley, CA
Professional Memberships	American Library Association (ALA) California Library Association (CLA)

Professional Activities	American Library Association, Library and Information Technology Association
	          Top Technologies Expert Group
	          LITA Monographs Acquisitions Editor (2001-2005)
	
	MARBI (MARC Standards Advisory Committee), RUSA Representative (2002-2005)
	
	ALA Task Force on E-Books (2002-2004)
	
	ALA Task Force on Privacy and Technology (2001)

Selected recent writings	"Managing Technology" Column in The Journal of Academic Librarianship, 2005-(ongoing) The "Rights" in Digital Rights Management. *D-Lib Magazine*, September, 2004 Future Considerations: the Functional Library Systems Record, *Library Hi Tech* v. 22. n. 2, 2004, pp. 166-174 Rights Management and Digital Library Requirements, Ariadne, Issue 40, July 30, 2004, http://www.ariadne.ac.uk/issue40/coyle/intro.html Rights Expression Languages: a White Paper for the Library of Congress. February, 2004. http://www.loc.gov/standards/Coylereport_final1single.pdf Open Source, Open Standards, in: *Information Technology and Libraries*, v. 21, n.1, March, 2002. pp.33-36. Stakeholders and Standards in the Ebook Economy: or It's the Economics, Stupid! *Library Hi Tech*, v. 19, n. 4, 2001. pp. 314-324 Computers, Privacy and, in: Encyclopedia of Computer Science, 4th Edition. NY, Grove's Dictionaries, 2000. pp 1427-1430 The Virtual Union Catalog: A Comparative Study. *D-Lib Magazine*, March, 2000. http://www.dlib.org Digital Signatures: Identity in Cyberspace. *AALL Spectrum*, December, 1997. pp 8-10.

Blueprints Needed for Information Highway On-Ramps. *American Libraries*, December, 1997. pp. 35-36.

Coyle's Information Highway Handbook. Chicago, American Library Association, 1997. 297 p.

Privacy or Paranoia? Does electronic monitoring have a chilling effect on your freedom? *Sunserver Magazine*, February, 1997, vol. 11, no. 2. p. 1, 21

Selected talks and appearances	Development and Testing of Schema for Expressing Copyright Status Information. Digital Library Federation Spring Forum, April, 2006

The Changing Standards Landscape. Hawaii Library Association, November, 2005.

When Private Becomes Public. Society of American Archivists' Annual Meeting, August, 2005.

Copyright in the Digital Age. Sponsored by Access Canada, March 25, 2004.

The Technology of Copyright: Digital Rights Management. Library of Congress Luminary Lecture. November 19th, 12003

Technology and Society: Shaping Library Policy (Keynote). Amigos Annual Conference, March, 2003

OpenURL, the Next Generation in Linking Standards. Amigos Annual Conference, March, 2003

The Virtual Union Catalog. Mellon Foundation Conference on Union Catalogs, Tallinn, Estonia, October, 2002

Library Privacy Before and After September11, 2001, California Public Library Directors Forum, April, 2002

Future of Libraries, keynote, Strait to the Future Conference, Hobart, Tasmania, August, 1998

Information Futures: Charting New Frontiers. Northern California Law Librarians Institute. March 21, 1997, Concord, Calif. Panel: Privacy Law

Impact of Information Commercialism: The Downside. LITA/LAMA Conference. October, 1996, Pittsburgh, Penn.

Future Libraries: Threats to Public Access in the Digital Age. Sponsored by Computer Professionals for Social Responsibility, Berkeley Chapter. August 7, 1996, San Francisco, Calif.

Information Beyond the Year 2000: Issues for the Special Librarian. Special Libraries Association, San Diego Chapter. March 22, 1996, San Diego, Calif.

The Changing Face of Information. Southern California Technical Services Processing Group. May 19, 1995, Upland, Calif.

Changing Libraries, Changing Lives. Manitoba Library Association. May 13, 1995, Manitoba, Canada.

Internet and the Borderless Community. World Affairs Council of Northern California. September 13, 1994, San Francisco, Calif.