

Responses to Discussion Questions For Breakout Sessions

Table 1: Data - Has your institution been addressing data management and data-sharing issues? Is your library involved? How are other universities dealing with digital storage of various electronic data formats?
-Who is generating data?
-What types of data are generating and how much data?
-What are they doing with it now?

- Data
 - Library/IT-IS relationship
 - How does library get in thought process?
 - Repositories – data + publication
 - Selectivity – who is? Do we need to be?
 - Bioinformaticist on staff (grants)
 - Different attitudes regarding sharing
 - Differences by discipline
 - Changing trends (generational?)
- Who is generating data?
 - Everyone
- What
 - Spectral Data
 - GIS
 - Chemistry – biology
 - Core samples
 - Images
- Where
 - IRS
 - Other purchased tools
- When
 - Time
 - One more task
 - One more topic

Tables 2 & 7: Web Portal – What components should a web portal for e-science include?

Table 2:

- Resources
 - Library resources
 - Data
 - Repository (if available)
- Instruction
 - Tutorials
 - Simulation
 - Classes
- Collaborative tools/data sharing
- Services

- Document delivery
- Publication support
- Grid
- Links
- News
- Audience ?
 - Used
- Subject
 - Specific or e-science in general

Table 7:

- Infrastructure
 - Technology
 - Champion(s)
 - Budget
 - Flexibility of content, management system
 - Mobile
 - Feedback mechanisms
 - RSS feeds
- Scope
 - Who is audience?
 - Librarians = Us } faculty/researchers
 - Wiki space? } students
 - Institutions } staff
 - Region/state
 - Disciplinary
- Content
 - Freely available resources/tools
 - Licensed resources (trickier outside your own institution)
 - Educational tools/tutorials
 - Expertise profiles/databases
 - Digital repository content
 - Compilation of core facilities/data services that exist
 - News

Table 3: Delivery - What organizational structure would facilitate regional delivery of e-science resources and services? What are essential components of regional delivery of e-science resources and services?

- Regional delivery - E-science – what is it?
- Cloud computing
 - Data sharing
 - Reuse
- Virtual Organization – ARL? NERL?
 - Borrow-direct
 - Keep copyright
- Archive presentations
 - Research trends
 - Documentation

Table 4 & 5: Staffing/Building New Roles - How can our current library staff obtain the training and credentials necessary to support e-science resources and services? How interested/comfortable/knowledgeable/expert are your library's staff in understanding or contributing to the data landscape and challenges at your institution?

Table 4:

- Training and Credentials
 - Sit in on classes taught at institutions – NN/LM, Science boot camp
 - Online tutorials – MIT, NCBI website (medical librarian course), HEAL, MERLOT, MedEdPortal, AMIA
 - NCBI pulled funding for outreach and education
 - Collaborate/partner with researchers
 - Team teaching – PubMed and bibliographic databases as part of bioinformatics course
 - Library schools ??
 - Get foot in door
 - Liaison program CSTA
 - Events – advertising expertise
 - NIH mandate support
 - IR
 - Survey researchers on their needs
 - How to apply things librarians already know really well to support e-science?
 - Expert searcher
 - Entrez architecture based on MEDLINE
 - Connecting
 - Another model: hire PhDs in subject areas – must be service oriented
- Comfort
 - Not a lot!
 - Research vs. clinical info

Table 5:

- Identify }
 - Organize } Data
 - Archive }
 - Share }
- Content knowledge (MS/Phd)
- Collaboration skills
- Bioinformatic tools – NCRI, etc.
- Invest money and time in education and training
- Specialized programs
- Pressure library schools

Table 6 & 9: Regional - How can we find out about e-science initiatives in the region & facilitate collaboration among libraries/librarians and their researchers?

Table 6:

- E-science initiatives in region
 - Find out
 - Facilitate collaboration amongst librarians with researchers in your institution
- What do we want to share?

- Build a collaborative too/web based, wiki, blog
- Database with structured records
 - Repository of
 - People - librarians
 - Projects
 - Tools – programs, languages
- Discussion area
 - Trends
 - Experiences
 - Bibliographies
 - Primers
 - Learning applies
- Community of interest within BLC
 - Librarians finding others
 - Librarians doing e-science
 - Librarians finding researchers doing e-science
 - First step – understanding our own idea of e-science
- Is it:
 - A systematic way of inventorying e-science initiatives
- Or:
 - Footwork within our own institution to generate interest
 - Lunch time topics (brown bag) on data management for research assistants
 - Discussion with faculty armed with a demonstration project of successful librarian Intervention, i.e., the portal

tag clouds
taxonomies
struct vocabulary

Table 9:

- Identify e-science initiatives
 - Word-of-mouth/networking
 - Conferences
 - Literature
 - Surveys
 - Consortia
 - Listservs
 - Cruising the web
 - Ask faculty
 - Liaison activities
 - Campus funded grants
 - Mining network (university websites)
 - Mining IRS
- Collaborating among librarians and researchers
 - Sharing knowledge of info resources
 - Networking with other libraries
 - Networking with other faculty worldwide
 - Creating online/physical space for Data and e-science and promoting
 - Providing staff to create metadata
 - Using standards
 - provide guidelines or recommendations
 - Single interface or meta-search of collections
 - From high level at institution
 - Panels of science scholars on e-science
 - Developing open access journals

Open access discussions/policies
 e-Sciences global initiative portal
 Working with Office of Research
 Co-teach (GIS, Bioinfo...etc.)
 Consult with faculty and grad about data
 Software support/installation?
 Outreach: emails, scheduled workshops
 Education: how users to find data
 Professional development: educate staff on e-science and data issues
 Best practices: share with faculty

Table 8: Given today's presentations, what roles do you see for libraries in e-science initiatives & potential strategies? What are practical approaches for understanding the scope of this issue at your institution?

-Bioinformatics and E-Science: Are they the same thing? Where are the overlaps? What are the differences?

- Roles of librarians in e-science
 - Bring scientists into the library/share expertise – bring them early – listen to what they need
 - Informationist needs to expand
 - Patient ed – CTSA
 - Help organize data
 - Database design role
 - Copyright/licensing/scho/pub – NIH mandate, journal publishing
 - Helping manage large complex bibliographies
 - “Linking” specialists to resources
 - Attend – be visible in scientific/disciplinary conferences
 - Deliver info in other formats
- Definition – Bioinformatics vs. E-science
 - They are different
 - Bioinformatics – computational
 - E-science – broader, general
 - collaborates
 - getting people to work together for collaboration in science
 - Cyber infrastructure – building large
 - Datasets and sharing
- Regional roles
 - Joint development of online tutorials to help educate ourselves
 - Joint development of web resource – pulling variety of biotools together in one place