Developing Human Infrastructure in Research Libraries to Support Research Data Services

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Developing Human Infrastructure in Research Libraries to Support Research Data Services

Christie Peters, University of Kentucky Libraries

Technological & human infrastructure supporting data stewardship are preconditions to meaningful access & reuse, as “homeless” data quickly become no data at all.

(Berman and Cerf 2013)
The Complexity of RDM Support in Libraries

Technical Services
- Digital Scholarship
- Metadata
- Information Technology

Public Services
- Liaisons
- Reference
- Information Literacy
- Copyright

Academic Libraries
- Technical Services
  - Sciences & Engineering
  - Medical Center
- Public Services
  - Social Sciences
  - Humanities
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CARLA CANTAGALLO
Head, Distance Learning Library Service

SARAH STAMANN
Graduate Assistant, Science & Engineering Library
Pre-Workshop Survey

Knowledge & Comfort on Data-Related Topics

- Knowledge
- Comfort
Objectives:

1. Describe the research data lifecycle & the importance of RDM best practices

2. Develop expertise with the research data lifecycle through hands-on activities

3. Demonstrate RDM best practices through the development of a DMP for a research case study using DMPTool
RDM Workshop

- Day 1: Workshop Overview, Research Data Lifecycle, Introduction to DMPTool
- Day 2: Data Formats, Naming Conventions & Data Description
- Day 3: Data Storage, Backup & Security
- Day 4: Data Sharing, Preservation & Archiving
- Follow-Up: Brown Bags & Guest Speaker

- **Dates:** February 2-5
  - 3 – half days, 1 – full day
- **Attendees:** Liaison Librarians
  - 14 participants w/ ~ 20 years of service
- **Guest Speakers:** UK Campus
  - 9 speakers from service units & departments at UK
Day 1 – Overview

- Associate Director, Proposal Development Office
- Professor & Interim Director HPC, Chemical & Materials Engineering

Day 2 – Metadata

- Research Staff, Biosystems & Agricultural Engineering

Day 3 – Storage, Backup & Security

- Chief Information Security Officer, Campus IT
- UK Records Manager, Libraries
- Technical Services & University Archivist, Libraries

Day 4 – Data Sharing

- Assistant Professor, Political Science
- Louis Boyarsky Professor, Physiology

Day 4 – Archiving & Preservation

- COO & Service Manager, DPN
Case Study: Combining data from 10 years of research for retrospective studies on the effects of exercise and diet on the risk of diabetes

New England Collaborative Data Management Curriculum (NECDMC)

Assigned interdisciplinary teams

At the end of each presentation, teams worked on related aspects of the case study

Groups shared DMP with cohort one week after workshop
### Post-Workshop Survey Results

#### Comfort-Level DMP Consultation

![Graph showing comfort levels before and after DMP consultation workshop](image1)

- **Very anxious**
- **Anxious**
- **Neutral**
- **Comfortable**
- **Very comfortable**

- **Pre-workshop**
- **Post-workshop**

#### Comfort-Level Funder Mandates & Policies

![Graph showing comfort levels before and after Funder mandates & policies workshop](image2)

- **Very anxious**
- **Anxious**
- **Neutral**
- **Comfortable**
- **Very comfortable**

- **Pre-workshop**
- **Post-workshop**
Post-Workshop Survey Results

- Favorite part of workshop
  - Guest speakers

- Least favorite part of workshop
  - Difficulty of learning DMPTool

- General comments
  - More pre-reading
  - Discipline-specific case studies
  - More time dedicated to DMPTool
Semester-Long Follow-Up

Brown Bags

- Open Educational Resources
  - Adrian Ho & Carla Cantagallo

- Data Management Resources
  - Christie Peters

- Funder Mandates
  - Robert Shapiro

External Speaker:

- Kristin Briney
  - Data Librarian @ University of Wisconsin-Milwaukee Libraries
  - Author, Data Management for Researchers: Organize, Maintain, and Share Your Data for Research Success
Next Steps

- 2017 RDM workshop
- RDM badging program
- Administrative data services committee
REFERENCES


- New England Collaborative Data Management Curriculum (NECDMC) – library.umassmed.edu