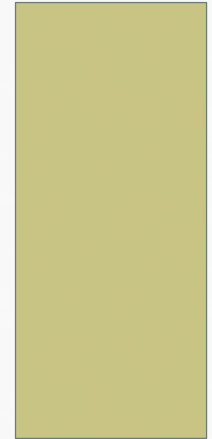


RESEARCH DATA MANAGEMENT UNIVERSITY OF OKLAHOMA UNIVERSITY LIBRARIES

MARK LAUFERSWEILER
RESEARCH DATA SPECIALIST
UNIVERSITY OF OKLAHOMA UNIVERSITY LIBRARIES



WHY WE ARE HERE: DATA SHARING

Office of Science and
Technology 2013

- Increasing Access to the Results of Federally Funded Scientific Research
- Agencies with over \$100 million research and development expenditures



INSTITUTIONAL REPOSITORY

- ShareOK
 - Primarily documents
 - Dissertation
 - Thesis
 - Publications
 - Faculty, staff, and student
 - Limited research data
 - Citizen Science specimen sample photos

EDUCATION/TRAINING WORKSHOPS

- Software Carpentry/Data Carpentry Foundation member
 - Software Carpentry 3 per semester
 - REU (Research Experience for Undergraduates)
 - Workshops in support of BioSurvey NRT grant
- Research Data Management classes/hands-on
 - Tips, tricks, and tools
 - Workflow best practices
 - DMPTool
- ResBaz (Research Bazaar)
 - Focuses on creating opportunities for researchers to share their digital skills
 - Two day event

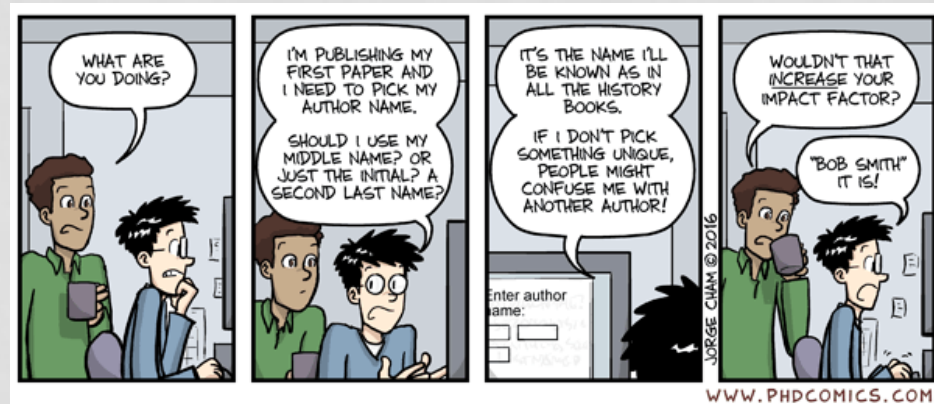
RDM CONSULT

- OU Faculty, staff, and students can schedule appointments with UL staff for DMP consultation
 - Liaison Librarians
 - Research Data Specialist
 - Digital Scholarship Specialists
 - Informatics Specialist
 - CLIR Fellowship postdoc (starting September)
- open office hours @ Digital Scholarship Lab
- Innovation HUB
 - Innovation @ EDGE
 - Virtual Reality
 - 3D printing
 - Circuits

SCHOLARLY COMMUNICATIONS

Digital Identity ORCID iD

- Adoption increasing with publishers and large repositories
 - Integrations with
 - SCOPUS, CrossRef, ResearcherID
 - Dryad, PLOS
 - AGU, APS
- UL and OU is an ORCID member
 - Integration with
 - ShareOK
 - Digital Object Identifiers



SCHOLARLY IP

Digital Object Identifiers

DOI def: unique alphanumeric string assigned by a registration agency (International **DOI** Foundation) to identify content and provide a persistent link to its location on the Internet.

- UL assists researchers with registering
 - South Central Climate Science Center (5)
 - OK Mesonet (3)
 - The Anthropocene Biosphere (21) symposium series
- Promotes sharing of research output
 - Citable reference Dataset authors/producers, data release date: Dataset title, version. Data archive/distributor, access date in standard AMS format, data locator/identifier (doi or URL).

DATA REPOSITORY NEED

- Systems better suited for data formats
 - CSV, NetCDF, GRIBB, HD5, Excel, SQL
 - Systems to consider
 - CKAN/DKAN
 - IRODS
- Build what community needs
 - Research Computing and Data Advisory Group
 - Survey
 - Data interviews
 - Use case based
 - Best practices

HOW IS UL DOING?

- ✓ Curatorial role for data stewardship
- ✓ Establish a robust digital repository
- ✓ Advocacy for open access and appropriate IP policies
- ✓ Consulting services to the community regarding data management plans
- ✓ New unit – not a traditional library but rather an information hub for research
- ✓ Educational opportunities
- ✓ Open access/copyright