Helping a Department of Energy Laboratory respond to Public Access requirements

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Helping a Department of Energy Laboratory respond to Public Access requirements

Willow Dressel  
Engineering Librarian

Princeton Plasma Physics Laboratory (PPPL)
The Princeton Plasma Physics Laboratory (PPPL) is a United States Department of Energy facility operated by Princeton University. PPPL is a collaborative center primarily dedicated to theoretical, experimental, and engineering research in plasma physics and fusion energy. PPPL is home to many internationally renowned experimental apparatus including the most powerful spherical tokamak facility in the world, the NSTX-U. Researchers also collaborate with other international experiments, including the International Thermonuclear Experimental Reactor (ITER) demonstration device being built in Cadarache, France.

Research Departments
- Advanced Projects
- Environment, Safety, and Health
- Engineering
- Information Technology
- ITER and Tokamaks
- NSTX-U
- Theory and Computation

Employees
- Faculty: 6
- Physicists: 95
- Engineers: 96
- Technicians: 166
- Administration: 123
- Graduate Students: 35

U.S. Department of Energy Public Access Plan

OSTP Memo
In February 2013, the White House Office of Science and Technology Policy released the memo, Expanding Public Access to the Results of Federally Funded Research directing “Federal agencies with more than $100M in R&D expenditures to develop plans to make the results of federally funded research freely available to the public”.

U.S. Department of Energy Public Access Plan
The U.S. Department of Energy (DOE) was the first Federal Agency to release their public access plan on July 24, 2014.

- Scientific Publications
  - Submit metadata and a link to the full-text accepted manuscript (or the full text itself) to DOE Office of Scientific and Technical Information (OSTI)
  - DOE provides portal and search interface tool called PAGES (Public Access Gateway for Energy and Science)
  - Allows 1 year embargo

- Scientific Data in Digital Formats
  - Research Proposals must include Data Management Plan
  - Unrestricted data underlying publications should be made publicly accessible
  - Published article should indicate how data can be accessed
  - Encourages the use of existing community or institutional repository (no existing Plasma Physics data disciplinary repository)
  - DMPs must protect confidentiality, privacy, U. S. Security, and recognize proprietary interest and intellectual property

DOE Fusion Energy Science Division Additional Data Requirements
- DOE Statement on Data Management applies to codes
- Encourages codes be made available via Open Source licensing
- Linking between data and publications is provided where possible

Scientific Publications
Since its inception, PPPL has been required to submit copies of all laboratory produced technical reports to DOE’s Office of Science and Technical Information (OSTI) as part of its contract with the DOE. Thus PPPL has a Publications Office and formal procedure for submitting publication information to the DOE.

Librarian Assistance
- Set up meeting with Scholarly Communications Librarian, Plasma Physics/E-Science Librarian, and PPPL Head of Technology Transfer
- Scholarly Communications Librarian and Plasma Physics/E-Science Librarian provided overview of Open Access and services and support available on campus
- Plasma Physics/E-Science Librarian created list of publisher Open Access policies for core Plasma Physics Journals
- Scholarly Communications Librarian continues to advise on questions regarding publisher copyright policies and DOE compliance

PPPL Response
- PPPL Head of Technology Transfer attended DOE training for Public Access Plan compliance
- When Open Access is not provided by publisher within 12 months, full text is submitted to OSTI’s PAGES repository

Scientific Data in Digital Formats
A disciplinary repository for plasma physics or fusion energy data does not currently exist and the DOE does not provide a data repository.

Librarian Assistance
- DMP Consultation – matched to DOE Office of Science suggested elements, worked with Princeton OIT to provide information about Princeton’s DataSpace Institutional Repository
- Worked with PPPL committee members, DataSpace repository architect and programmer to determine ideal metadata and configuration
- Recommended documentation in the form of readme files be deposited with data
- Data management best practices libguide linked from internal PPPL Author’s information page http://libguides.princeton.edu/rdm

Princeton OIT DataSpace Repository Assistance
- Provided information on use of DataSpace for DMP
- Consulted on use of ARKs, configuration, and metadata
- Set up and configured PPPL DataSpace Community based on consultations with key stakeholders

PPPL Response
- Developed Data Management Plan
- Set up community in DataSpace for data underlying publications
- Each department has its own sub-community and workflow for depositing. Some departmental managers perform the deposit, others leave it to individual researchers
- Linking between data and publications is provided where possible

Conclusions
Princeton University’s DataSpace Repository provided an ideal solution to DOE Public Access data requirements. A core plasma physics journal recently partnered with Zenodo as an option for depositing data underlying publications, however PPPL prefers the DataSpace option.

Librarian consultation and facilitation helped inform the development of the repository community and provide data management best practices. Librarians can also play a key role in helping researchers comply with funder requirements even when local resources aren’t used. Princeton librarians provided information on open access and publisher policies and continue to be a resource for PPPL’s Communications department.

Acknowledgements
Mark Ratliff, Senior Architect, Cloud Infrastructure Services and Digital Repositories and Monika Mevenkamp, Digital Repository Infrastructure Developer, in Princeton’s Office of Information Technology did the hard work of creating the ideal DataSpace community to meet PPPL’s needs.

Yuan Li, Scholarly Communications Librarian provided Open Access consultation to PPPL and reviewed this poster.

Jim Graham, Head of Best Practices at PPPL coordinated PPPL, OIT, and Library collaboration.

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