



FACULTY SENATE

Research, Scholarship & the Creative Arts Committee  
September 14, 2017  
427a Waterman 12:30-2:00

Present: Steve Budington (CAS), Chris Burns (LIB), Tammy Kolbe (CESS), Jeffrey Marshall (CEMS), David Neiweem (CAS), Beth Kirkpatrick (COM), Cathy Paris (Faculty Senate President), Jessica Sheehe (GSS), Chuck Schnitzlein (GSB), Rachelle Gould (RSENR)

Absent: Seth Fritz (CNHS), Matthew Price (CAS), Mary Tierney (CALs), Albert van der Vliet (COM)

Guests: Richard Galbraith, Brian Prindle

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Chair Chris Burns called the meeting to order at 12:32pm in 427a Waterman.

1. **Approval of the Minutes.** The minutes of May 18, 2017 were approved as written.
2. **Sponsored Programs (Richard Gailbraith).** SPA, Research Protections Office and Compliance make up the Office of Research. Brian Prindle has joined the University of Vermont as the Executive Director for Research Administration. Sonja Stern is the new director of SPA. The software used by SPA is from 2008 and doesn't work with PeopleSoft. Currently they are looking at the potential to upgrade this software with the CLICK system.
3. **CLICK (Richard Galbraith).** Click is a software system that is being considered to replace the software used currently by SPA. There is over 120 universities, hospitals and associations already using this software. This is premium software. They are working on a three way sponsorship, the UVM Medical Center / Network, The University of Vermont College of Medicine and the University Provost / Office of Research all providing a third of the cost.

Some of the questions the committee had.

- a. Would Click be available for Clinical trials?
- b. Security
- c. Training
- d. Better PeopleSoft reporting.

#### 4. Research Data Management.

FROM: David V. Rosowsky, Provost and Senior Vice President

DATE: March 24, 2017

SUBJECT: Ad Hoc Data Management Committee



At its February meeting, the Faculty Senate passed a resolution (Attachment 1) supporting the appointment of an ad hoc committee charged with developing a data management plan (DMP) for the University. I am writing to request your service on this committee which I have asked Chris Burns and Russ Tracy to co-chair.

The issue of data management is enormously complex and evolving. For this reason, I believe a plan is best developed sequentially in phases. A sequential approach will support our thoughtful consideration of the associated opportunities and challenges, and allow for the emergence of clarity regarding federal data management expectations. Therefore, the charge of this committee will be to:

- Review a recent analysis of data management plans and data management practices on campus (Attachments 2 and 3).<sup>1</sup>
- Conduct a thorough examination of data management plans in place in select peer and comparator institutions; identify common elements; broadly describe different approaches and their strengths and weaknesses.
- Develop standard (and, where appropriate, agency specific) UVM data management plan language for use by faculty members in the submission of grant applications requiring DMP statements.

I will expect the committee's report by October 1, 2017. This report will serve as the basis for defining the next phase in the development a data management plan.

### Ad Hoc Committee Members

- ▶ Mike Austin, Director of System Administration, Enterprise Technology Services
- ▶ Chris Burns, Library Associate Professor, Chair - Faculty Senate Research, Scholarship and Creative Arts Committee
- ▶ James Bagrow, Assistant Professor, Department of Mathematics & Statistics
- ▶ Lesley-Ann Dupigny-Giroux, Professor and Chair, Department of Geography
- ▶ Cindy Forehand, Dean, Graduate College
- ▶ Donna O'Malley, Library Associate Professor, Dana Medical Library
- ▶ Russ Tracy, Professor, Pathology and Laboratory Medicine

## Federal Agency Data Management Plan Requirements

- ▶ Types of data produced
- ▶ Standards for data and metadata, where there are standards
- ▶ Policies for access and sharing, including provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements.
- ▶ Policies and provisions for re-use and redistribution.
- ▶ Plans for data archiving and preservation and access

### DRAFT RECOMMENDATIONS

- ▶ Coordinate institutional information about data management and data management plans. Assign ownership for maintaining this information and promote and update it on a regular basis.



## Data Management

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- Sharing & Preserving Data
- Data Citation
- Data Visualization

### What is Data Management?

Data management refers to the storage, access, and preservation of research data. Data management practices cover the entire lifecycle of the data, from planning the investigation to conducting it, and from backing up data as it is created and used to long term preservation of data deliverables after the research investigation has concluded.

### Why Data Management?

If you are generating and/or using data in your research, a well-thought out approach to data management will save you time and frustration, maximize the impact of your work, and is a responsible research practice. A data management plan (DMP) is a formal document describing data that have been or will be gathered in a study or project. Data management plans can help you:

- Conduct research efficiently by making your data practices explicit.
- Describe how data will be maintained and what resources will be needed to preserve it.
- Have well described and organized data to maintain data integrity and increase usability.
- Enhance data security measures and minimize risk of data loss.
- Facilitate re-use of data sets, open access, and data sharing.
- Increase the impact of your research by making your data available to other researchers.

ing data from [elsevier.com](https://www.elsevier.com/locate/S0169-7555(2016)00001-0)... arch integrity and replication.

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## Sponsored Project Administration - SPA

SPA A-to-Z topics | 217 Waterman Building | 65 South Prospect Street | Burlington, Vermont 05405 | (802) 656-3360

### UVM Data Management Information

[Click here for word version of this document.](#)

#### Introduction

The National Science Foundation (NSF), as well as many other funding agencies, frequently asks that proposals include information about how data generated from sponsored research activities will be managed, handled, and shared. Enterprise Technology Services (ETS) has prepared the following information about UVM data handling and storage to assist investigators in providing that information.

#### University of Vermont Data Management Information

ETS provides for the University a suite of central services that includes email, web publishing, traditional file and print services, and more. ETS staff have created a robust infrastructure to support physical, operational and security requirements of these critical services.

#### Infrastructure

ETS maintains two Data Centers. Our primary Data Center is located off-campus, in South Burlington. This facility provides a high level of fault tolerance, through redundant power systems, redundant cooling, and replication of selective services between this site and our backup Data Center. The primary site hosts traditional physical servers, blade-style servers, and a large part of our VMware ESX virtual environment, as well as our High Performance Computing (HPC) cluster and our Storage Area Network. Authorized staff requiring physical access to the Data Centers must swipe their UVM ID and present their hand for a biometric scan. Two redundant, high-capacity fiber optic links connect the primary Data Center to the UVM campus.

The backup Data Center, located in on-campus, hosts a smaller set of services, including redundant instances of security

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Services offered and administrated by Enterprise Technology Services (ETS)

**Research Storage**

ETS Systems Architecture and Administration department provisions storage across a range of protocols for projects with large-capacity or custom requirements at terabyte scale for SMB, HTTP, and NFS protocols. This storage creates a safe repository for data that has traditionally been kept locally due to the high cost required for central storage for the volume of data. The average cost of an implementation can be as low as \$200/TB. This cost covers your use of the storage for a 3 year period.

The storage is protected by dual-parity RAID algorithms, ensuring the data stored here is safe from hard drive failure.

This service can also provide reliable backups for research or large-scale data.

Please contact SAA at UVM for more details.

 Cornell University

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**RESEARCH DATA MANAGEMENT SERVICE GROUP**

Comprehensive Data Management Planning & Services

## About the Research Data Management Service Group

### Mission

The Research Data Management Service Group (RDMSG) is a collaborative, campus-wide organization that links Cornell University faculty, staff and students with data management services to meet their research needs. The RDMSG's broad range of science, policy, data, and information technology experts provide timely and professional assistance for the creation and implementation of data management plans, and help researchers find specialized data management services they require at any stage of the research process, including initial exploration, data gathering, analysis and description, long term preservation and access.

### People

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- ▶ Become a partner institution of the [DMPTool](#). This a low bar, **no cost** improvement. The tool provides up-to-date agency-specific templates for creating data management plans, which can be customized with UVM specific information if we are institutional partners, making the process of creating these plans easier for researchers.
- ▶ Adoption should be followed by promotion and training to ensure that faculty are aware of the tool and comfortable using it.
- ▶ The tool should be periodically assessed to ensure that it meets the needs of the University and its researchers.

**DMPTool**

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# Data Management Planning Tool

Create, review, and share data management plans that meet institutional and funder requirements.

[Get Started](#)

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PUBLIC DMPs	DMPTOOL NEWS	DMPTOOL HELP
List of sample data management plans provided by DMPTool users.	Latest information about data management and the DMPTool.	Overview of how to use the tool, plus resources and guidance on data management.
<ul style="list-style-type: none"> <li>- UNDERSTANDING THE ROLE OF PHYSICIAN INTEGRATION WITHIN NURSING HOMES IN POST-ACUTE CARE OUTCOMES</li> </ul>	<ul style="list-style-type: none"> <li>- NSF EAGER Grant for Actionable DMPs</li> <li>- DMPloadmap summer camp news</li> </ul>	<ul style="list-style-type: none"> <li>- Frequently Asked Questions</li> <li>- Create a DMP</li> <li>- Administer the DMPTool</li> </ul>

**DMPTool**

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**PARTNER INSTITUTIONS**

Partner institutions can configure the tool to point to their resources and services, provide customized help, and provide suggested answers to the questions asked by funding agencies. DMPTool users affiliated with partner institutions can login with their own institutional accounts. For more information see About Partners.

Use the A-Z links below to narrow down the list by institution or use the search box to search for specific institutions.

A - F G - L M - S T - Z All  Search

Name	Shibboleth enabled?	DMPTool Customized?
Alfred P. Sloan Foundation		
American University	✓	✓
Appalachian State University		✓
Arizona State University	✓	
Augusta University	✓	
Auraria Library (UCD, MBU Denver, CCD)		✓
Baylor University	✓	✓
Binghamton University	✓	
Boise State University	✓	✓
Boston College	✓	
Boston University	✓	✓

- ▶ Assess further faculty data management needs in relation to data management plans, and data storage, preservation, and sharing.
- ▶ Review current UVM policies related to research data and identify any policy gaps.

Chris will present this report to the full Faculty Senate at its September 18, 2017 meeting.

### **RSCA Overview.**

*CHARGE OF THE RSCA*

*This committee is responsible for matters relating to research activities, scholarly work, and creative and performing arts carried out at the University, including graduate education and items referred to in Sections 1.1c, 1.2b, 1.2g, and 1.2k in the Faculty Senate bylaws. The RSCA reviews, recommends, and participates in the formulation of policy with respect to resources related to these activities, including physical facilities and allocation of appurtenant space, library resources and resources for graduate programs, and makes recommendations to assure effective use of these resources. The RSCA serves as liaison between the Senate and the administration on such matters as, but not limited to: the broad role of the University in advancing knowledge through research, scholarship, and the performing arts; external and internal support for encouraging these activities, including graduate and undergraduate research; intellectual property, and technology transfer; ethical issues and issues affecting the academic environment as these arise in research or scholarly work. The RSCA consults frequently with other University and collegiate committees that are charged to initiate, maintain, and monitor institutional support programs for research, scholarship, the creative arts, and graduate education, as well as maintains close liaison with appropriate administrative offices in its areas of responsibility.*

RSCA Responsibilities include:

- Spring and fall Burack Lecturers review
- University Distinguished Professors Awards

Frequent guests include:

- Richard Galbraith, V.P of Research
- Mara Saule, Dean of libraries and Chief communications officer
- Cindy Forehand, Dean of the Graduate College

Topics the RSCA would like to work on this year?

- Gund Institute for the Environment. (Inviting the interim director)
- Overview of undergraduate Research (Richard G, Honors College)
- SPA Proposal Routing (Brian Prindle)
- Creative Arts / Humanities

The discussion of added topics for the 2017 / 2018 academic year will be added to the October agenda.

**5. New Business.** There was no new business at this time.

**The meeting was adjourned at 2:11pm**

**The next meeting of the RSCA is scheduled for Thursday, October 12, 2017 from 12:30 – 2:00 in 427a Waterman.**