

---

# Digital Repositories

---

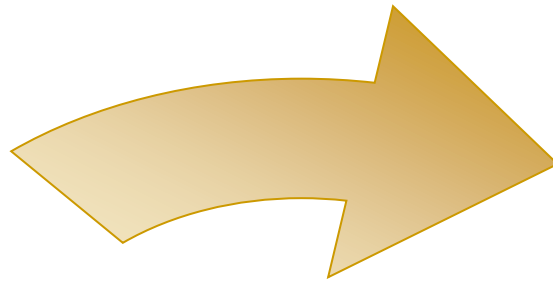
Terry M. Owen  
DRUM Coordinator  
6 December 2007



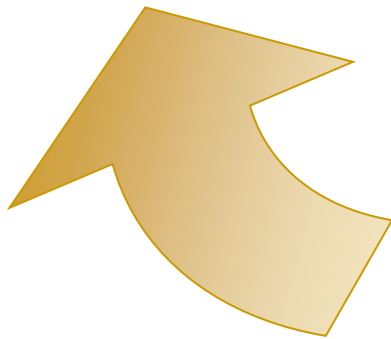
**DRUM**

---

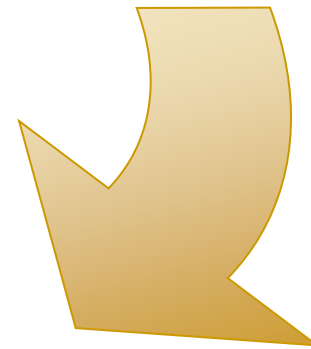
**Researcher**



**Publisher**



**Librarian**



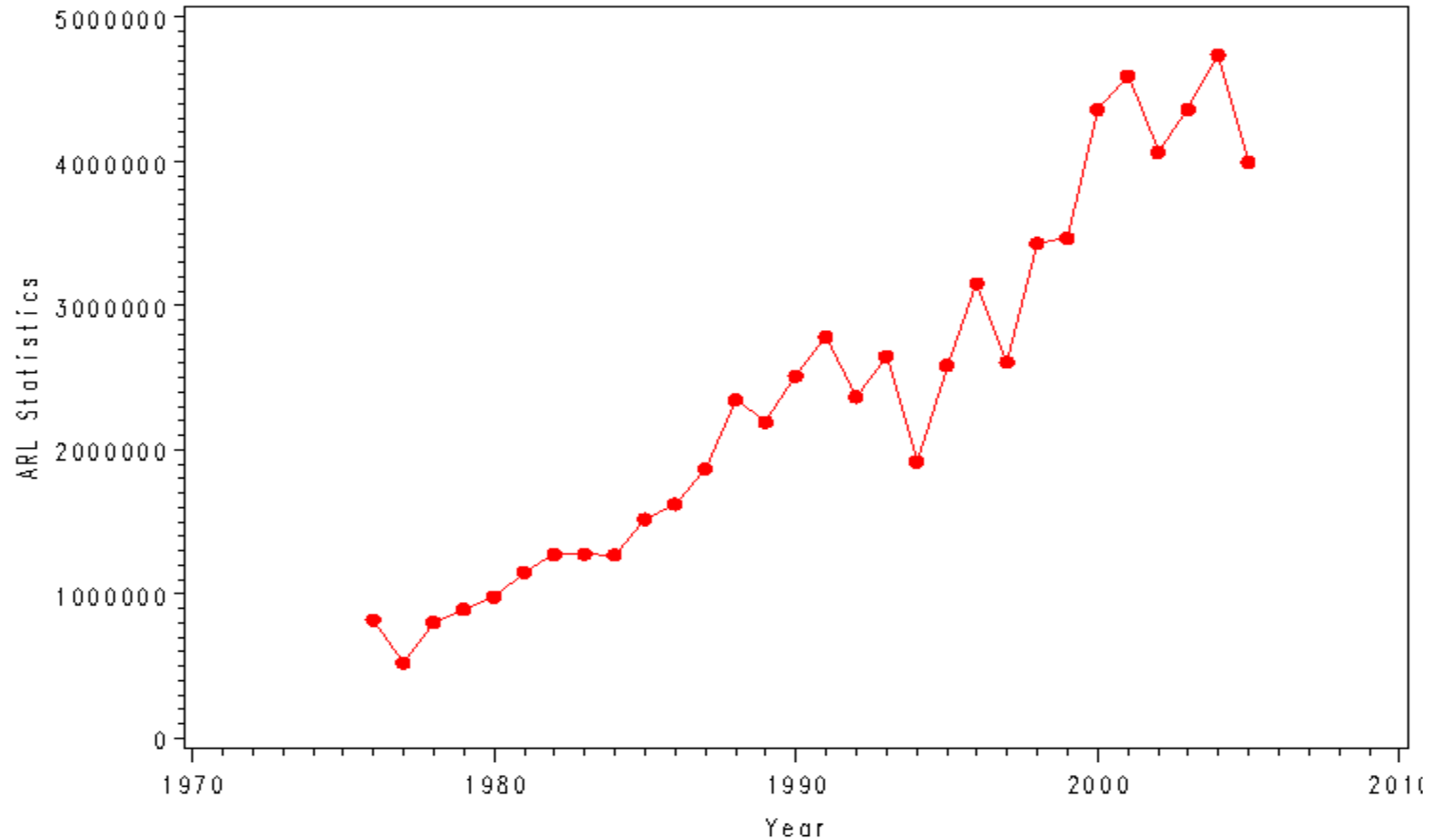
**DRUM**

# Scholarly Communication Trends

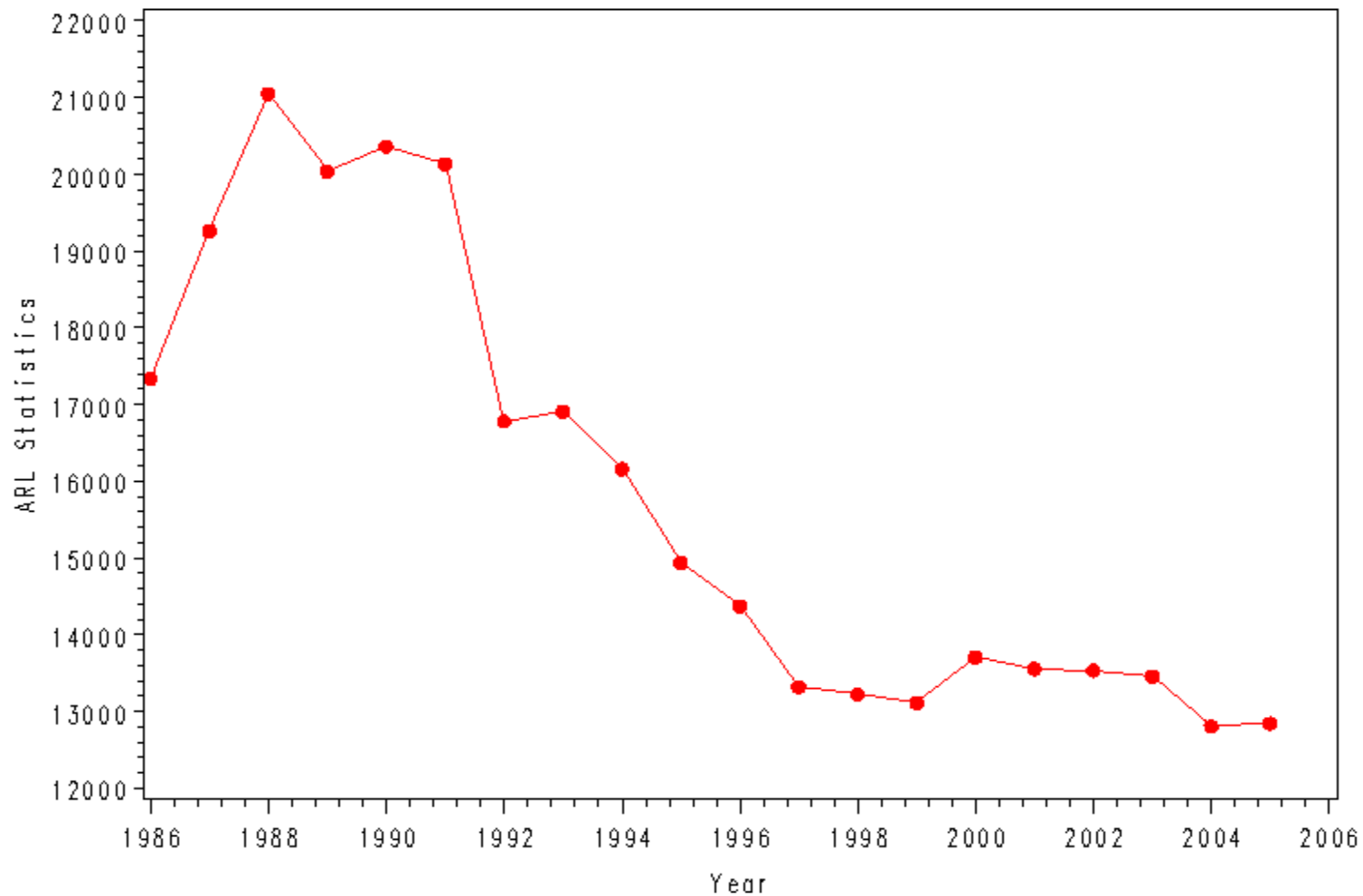
- Journal titles proliferating
- Journal prices increasing
- Library budget cuts



# UM Serials Expenditures



# UM Serials Purchased



# Periodicals Price Survey

- Increase for 2007 was just below 8% on average per title
- Highest average cost per title in 2007
  - Chemistry: \$3,429
- Lowest average cost per title in 2007
  - Art and Architecture: \$198
- Greatest price increase from 2003 to 2007
  - Library & Information Science: 57%
- Greatest price increase in 2007
  - Library & Information Science: 14%



# Open Access Developments

- Budapest Open Access Initiative
- Proliferation of Open Access journals
  - Public Library of Science
- Directory of Open Access Journals
  - 2,900+ titles
  - 25% increase over last year
  - 200+ tracked by ISI for impact factor
- Development of Open Access policies
- Institutional repositories



---

# What is an Institutional Repository?

SPARC definition:

“A digital collection capturing and preserving the intellectual output of a single or multi-university community.”

Crow, Raym. "The Case for Institutional Repositories: A SPARC Position Paper."  
*ARL Bimonthly Report* 223 (August 2002).



**DRUM**



---

# arXiv.org

- Physics e-prints/preprints
- Developed at Los Alamos National Laboratory
- Resides at Cornell University
- Expanded to include computer science and mathematics
- Free, publicly available journal article collections



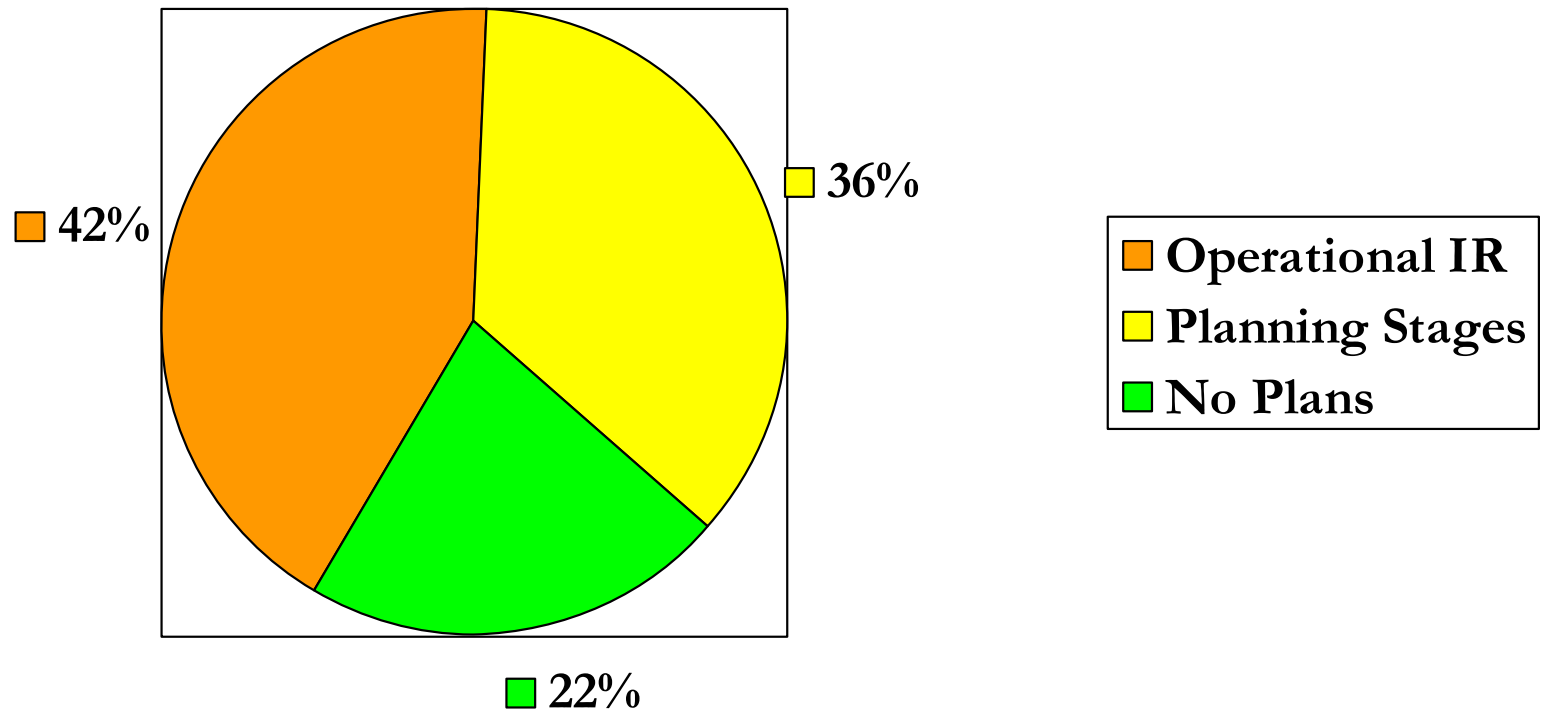
---

# DSpace at MIT

- MIT institutional repository developed in 2002
- Developed DSpace software in cooperation with HP
- DSpace - open source software
- More than 250 institutions currently using DSpace



# ARL Statistics



---

# Top Reasons for Starting an IR

- Increase global visibility of, preserve, and provide free access to the institution's scholarship
- Desire to collect and organize the institution's scholarship in a single system
- Responding to requests from faculty and students
- Change scholarly communication by demonstrating alternative mechanisms



---

# DRUM Background

- Initial proposal to Provost from ULC May 2003
- Mission: store, index, distribute, and preserve the research works of UM faculty
- Developed using DSpace
  - open source
  - active user community
  - out-of-the-box implementation
- Launched in August 2004
  - 1,100 documents
  - 7,150+ documents as of November 2007



# DRUM Content

3476	Theses & Dissertations
3354	Computer Science Technical Reports
325	Faculty Contributions
<b>7155</b>	<b>TOTAL</b>



## Welcome to the repository for University of Maryland research.

Any UM Faculty member can make digital works permanently accessible and available across the Internet with DRUM. [Find out more about depositing your work.](#)

Learn more:

- [About DRUM](#)
- [About Institutional Repositories](#)

### The following communities of digital works are available:

#### Collections Organized by Department

[A. James Clark School of Engineering](#)

[College of Agriculture & Natural Resources](#)

[College of Architecture, Planning, & Preservation](#)

[College of Arts & Humanities](#)

[College of Behavioral & Social Sciences](#)

[College of Chemical & Life Sciences](#)

[College of Computer, Mathematical & Physical Sciences](#)

[College of Education](#)

[College of Information Studies](#)

[Philip Merrill College of Journalism](#)

[Robert H. Smith School of Business](#)

[School of Public Health](#)

[School of Public Policy](#)

[University Libraries \(faculty\)](#)

#### UM Community-managed Collections

[Center for Food, Nutrition, and Agriculture Policy](#)

[Institute for Systems Research](#)

[Tech Reports in Computer Science and Engineering](#)

[Theses and Dissertations from UM](#)

[Home](#)

#### Browse

[Communities & Collections](#)

[Titles](#)

[Authors](#)

[By Date](#)

#### My DRUM:

[Login](#) for

Submissions

Subscriptions

Profile

[Help](#)

[About DRUM](#)

[About Download Statistics](#)

Senators Cornyn (R-TX), Lieberman (D-CT) and Sessions (R-AL) have introduced legislation that would require federal agencies with research portfolios of \$100 million or more to make resulting peer-reviewed articles publicly available online within 6 months of publication. Research results would need to be preserved and made available via a stable, open access digital repository like PubMed Central or DRUM. Read more about this legislation on the [SPARC Resources](#) web site. The text and current status of the bill can be accessed through THOMAS at [S.2695](#). Watch this space for further developments!

#### NIH Public Access Policy

In 2005, NIH announced a policy for grantees asking them to deposit articles based on funded research into PubMed Central. To learn about the policy and how it relates to DRUM, check out our [Answers to Common Questions](#) page.

In addition, read the [Memo to Campus Faculty](#) from Dean Charles Lowry discussing the new policy and outlining what funded researchers can do to prepare their works for deposit.

#### Thesis/Dissertation Deposit Timeline

New submissions to the thesis/dissertation collections are added automatically as they are received from the Graduate School. Currently, the Graduate School deposits all theses and dissertations from a given semester after the official graduation date. This means that there may be up to a 4 month delay in the appearance of a given thesis/dissertation in DRUM.

## Welcome to the repository for University of Maryland research.

Any UM Faculty member can make digital works permanently accessible and available across the Internet with DRUM. [Find out more about depositing your work.](#)

Learn more:

- [About DRUM](#)
- [About Institutional Repositories](#)

### The following communities of digital works are available:

#### Collections Organized by Department

[A. James Clark School of Engineering](#)

[College of Agriculture & Natural Resources](#)

[College of Architecture, Planning, & Preservation](#)

[College of Arts & Humanities](#)

[College of Behavioral & Social Sciences](#)

[College of Chemical & Life Sciences](#)

[College of Computer, Mathematical & Physical Sciences](#)

[College of Education](#)

[College of Information Studies](#)

[Philip Merrill College of Journalism](#)

[Robert H. Smith School of Business](#)

[School of Public Health](#)

[School of Public Policy](#)

[University Libraries \(faculty\)](#)

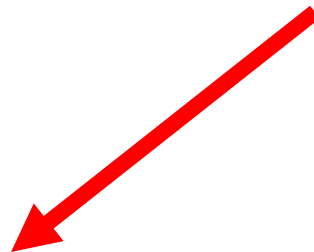
#### UM Community-managed Collections

[Center for Food, Nutrition, and Agriculture Policy](#)

[Institute for Systems Research](#)

[Tech Reports in Computer Science and Engineering](#)

[Theses and Dissertations from UM](#)



Senators Cornyn (R-TX), Lieberman (D-CT) and Sessions (R-AL) have introduced legislation that would require federal agencies with research portfolios of \$100 million or more to make resulting peer-reviewed articles publicly available online within 6 months of publication. Research results would need to be preserved and made available via a stable, open access digital repository like PubMed Central or DRUM. Read more about this legislation on the [SPARC Resources](#) web site. The text and current status of the bill can be accessed through THOMAS at [S.2695](#). Watch this space for further developments!

#### NIH Public Access Policy

In 2005, NIH announced a policy for grantees asking them to deposit articles based on funded research into PubMed Central. To learn about the policy and how it relates to DRUM, check out our [Answers to Common Questions](#) page.

In addition, read the [Memo to Campus Faculty](#) from Dean Charles Lowry discussing the new policy and outlining what funded researchers can do to prepare their works for deposit.

#### Thesis/Dissertation Deposit Timeline

New submissions to the thesis/dissertation collections are added automatically as they are received from the Graduate School. Currently, the Graduate School deposits all theses and dissertations from a given semester after the official graduation date. This means that there may be up to a 4 month delay in the appearance of a given thesis/dissertation in DRUM.

→ [Home](#)

#### Browse

→ [Communities & Collections](#)

→ [Titles](#)

→ [Authors](#)

→ [By Date](#)

#### My DRUM:

→ [Login](#) for  
Submissions  
Subscriptions  
Profile

→ [Help](#)

→ [About DRUM](#)

→ [About Download Statistics](#)



[Home](#)

## Browse

[Communities & Collections](#)

[Titles](#)

[Authors](#)

[By Date](#)

## My DRUM:

[Login for](#)

[Submissions](#)

[Subscriptions](#)

[Profile](#)

[Help](#)

[About DRUM](#)

[About Download Statistics](#)

Shown below is a list of communities and the collections and sub-communities within them. Click on a name to view that community or collection home page.

## Collections Organized by Department

- **[A. James Clark School of Engineering](#)**
  - **[Aerospace Engineering](#)**
    - [Aerospace Engineering Research Works](#)
    - [Aerospace Engineering Theses and Dissertations](#)
  - **[Chemical & Biomolecular Engineering](#)**
    - [Chemical and Biomolecular Engineering Research Works](#)
    - [Chemical and Biomolecular Engineering Theses and Dissertations](#)
  - **[Civil & Environmental Engineering](#)**
    - [Civil & Environmental Engineering Research Works](#)
    - [Civil & Environmental Engineering Theses and Dissertations](#)
  - **[Electrical & Computer Engineering](#)**
    - [Electrical & Computer Engineering Research Works](#)
    - [Electrical & Computer Engineering Theses and Dissertations](#)
  - **[Fire Protection Engineering](#)**
    - [Fire Protection Engineering Research Works](#)
    - [Fire Protection Engineering Theses and Dissertations](#)
  - **[Fischell Department of Bioengineering](#)**
    - [Fischell Department of Bioengineering Research Works](#)
    - [Fischell Department of Bioengineering Theses and Dissertations](#)
  - **[Materials Science & Engineering](#)**
    - [Materials Science & Engineering Research Works](#)
    - [Materials Science & Engineering Theses and Dissertations](#)
  - **[Mechanical Engineering](#)**
    - [Mechanical Engineering Research Works](#)
    - [Mechanical Engineering Theses and Dissertations](#)

Home

## Browse

Communities  
& Collections

Titles

Authors

By Date

## My DRUM:

Login for  
Submissions  
Subscriptions  
Profile


Help

About DRUM

About Download  
Statistics

Shown below is a list of communities and the collections and sub-communities within them. Click on a name to view that community or collection home page.


## Collections Organized by Department

- **A. James Clark School of Engineering**
  - **Aerospace Engineering**
    - Aerospace Engineering Research Works
    - Aerospace Engineering Theses and Dissertations
  - **Chemical & Biomolecular Engineering**
    - Chemical and Biomolecular Engineering Research Works
    - Chemical and Biomolecular Engineering Theses and Dissertations
  - **Civil & Environmental Engineering** 
    - Civil & Environmental Engineering Research Works
    - Civil & Environmental Engineering Theses and Dissertations
  - **Electrical & Computer Engineering**
    - Electrical & Computer Engineering Research Works
    - Electrical & Computer Engineering Theses and Dissertations
  - **Fire Protection Engineering**
    - Fire Protection Engineering Research Works
    - Fire Protection Engineering Theses and Dissertations
  - **Fischell Department of Bioengineering**
    - Fischell Department of Bioengineering Research Works
    - Fischell Department of Bioengineering Theses and Dissertations
  - **Materials Science & Engineering**
    - Materials Science & Engineering Research Works
    - Materials Science & Engineering Theses and Dissertations
  - **Mechanical Engineering**
    - Mechanical Engineering Research Works
    - Mechanical Engineering Theses and Dissertations

[Home](#)**Browse**[Communities & Collections](#)[Titles](#)[Authors](#)[By Date](#)**My DRUM:**[Login for](#)[Submissions](#)[Subscriptions](#)[Profile](#)[Help](#)[About DRUM](#)[About Download Statistics](#)

Shown below is a list of communities and the collections and sub-communities within them. Click on a name to view that community or collection home page.

**Collections Organized by Department**

- **[A. James Clark School of Engineering](#)**
  - **[Aerospace Engineering](#)**
    - [Aerospace Engineering Research Works](#)
    - [Aerospace Engineering Theses and Dissertations](#)
  - **[Chemical & Biomolecular Engineering](#)**
    - [Chemical and Biomolecular Engineering Research Works](#)
    - [Chemical and Biomolecular Engineering Theses and Dissertations](#)
  - **[Civil & Environmental Engineering](#)**
    - [Civil & Environmental Engineering Research Works](#)
    - [Civil & Environmental Engineering Theses and Dissertations](#)
  - **[Electrical & Computer Engineering](#)**
    - [Electrical & Computer Engineering Research Works](#)
    - [Electrical & Computer Engineering Theses and Dissertations](#)
  - **[Fire Protection Engineering](#)**
    - [Fire Protection Engineering Research Works](#)
    - [Fire Protection Engineering Theses and Dissertations](#)
  - **[Fischell Department of Bioengineering](#)**
    - [Fischell Department of Bioengineering Research Works](#)
    - [Fischell Department of Bioengineering Theses and Dissertations](#)
  - **[Materials Science & Engineering](#)**
    - [Materials Science & Engineering Research Works](#)
    - [Materials Science & Engineering Theses and Dissertations](#)
  - **[Mechanical Engineering](#)** 
    - [Mechanical Engineering Research Works](#)
    - [Mechanical Engineering Theses and Dissertations](#)



# DRUM

Digital Repository at the University of Maryland

**Search DRUM:**  
   
[Advanced Search](#)

- [Home](#)
- Browse**
- [Communities & Collections](#)
- [Titles](#)
- [Authors](#)
- [By Date](#)

- My DRUM:**
- [Login](#) for Submissions Subscriptions Profile
  - [Help](#)
  - [About DRUM](#)
  - [About Download Statistics](#)



DRUM >

## Welcome to the repository for University of Maryland research.

**Any UM Faculty member can make digital works permanently accessible and available across the Internet with DRUM.** [Find out more about depositing your work.](#)

Learn more:

- [About DRUM](#)
- [About Institutional Repositories](#)

## The following communities of digital works are available:

### Collections Organized by Department

- [A. James Clark School of Engineering](#)
- [College of Agriculture & Natural Resources](#)
- [College of Architecture, Planning, & Preservation](#)
- [College of Arts & Humanities](#)
- [College of Behavioral & Social Sciences](#)
- [College of Chemical & Life Sciences](#)
- [College of Computer, Mathematical & Physical Sciences](#)

## Federal Research Public Access Act of 2006

Senators Cornyn (R-TX), Lieberman (D-CT) and Sessions (R-AL) have introduced legislation that would require federal agencies with research portfolios of \$100 million or more to make resulting peer-reviewed articles publicly available online within 6 months of publication. Research results would need to be preserved and made available via a stable, open access digital repository like PubMed Central or DRUM. Read more about this legislation on the [SPARC Resources](#) web site. The text and current status of the bill can be accessed through THOMAS at [S.2695](#). Watch this space for further developments!

## NIH Public Access Policy

In 2005, NIH announced a policy for grantees asking them to deposit articles based on funded research into PubMed Central. To learn about the policy and how it relates to DRUM, check out our [Answers to Common Questions](#) page.

In addition, read the [Memo to Campus Faculty](#) from Dean Charles Lowry discussing the new policy and outlining what funded researchers



# DRUM

Digital Repository at the University of Maryland

**Search DRUM:**



[Advanced Search](#)

DRUM >

[Home](#)

### Browse

- [Communities & Collections](#)
- [Titles](#)
- [Authors](#)
- [By Date](#)

### My DRUM:

- [Login](#) for Submissions
- [Subscriptions](#)
- [Profile](#)

- [Help](#)
- [About DRUM](#)
- [About Download Statistics](#)

**Search:** All of DRUM

Search type: Search for:

Keyword

AND Keyword

AND Keyword

Search  Clear

- Keyword
- Author
- Advisor
- Title
- Subject
- Abstract
- Series
- Sponsor
- Identifier

DRUM is brought to you by the [University of Maryland Libraries](#)  
 University of Maryland, College Park, MD 20742-7011 (301)314-1328.  
 Please send us your [comments](#).  
[All Contents](#)



# DRUM

Digital Repository at the University of Maryland

**Search DRUM:**  
   
[Advanced Search](#)

[Home](#)

**Browse**

- [Communities & Collections](#)
- [Titles](#)
- [Authors](#)
- [By Date](#)



**My DRUM:**

- [Login](#) for Submissions
- Subscriptions
- Profile

- [Help](#)
- [About DRUM](#)
- [About Download Statistics](#)

DRUM >

## Welcome to the repository for University of Maryland research.

**Any UM Faculty member can make digital works permanently accessible and available across the Internet with DRUM.** [Find out more about depositing your work.](#)

Learn more:

- ◆ [About DRUM](#)
- ◆ [About Institutional Repositories](#)

## The following communities of digital works are available:

### Collections Organized by Department

- [A. James Clark School of Engineering](#)
- [College of Agriculture & Natural Resources](#)
- [College of Architecture, Planning, & Preservation](#)
- [College of Arts & Humanities](#)
- [College of Behavioral & Social Sciences](#)
- [College of Chemical & Life Sciences](#)
- [College of Computer, Mathematical & Physical Sciences](#)

## Federal Research Public Access Act of 2006

Senators Cornyn (R-TX), Lieberman (D-CT) and Sessions (R-AL) have introduced legislation that would require federal agencies with research portfolios of \$100 million or more to make resulting peer-reviewed articles publicly available online within 6 months of publication. Research results would need to be preserved and made available via a stable, open access digital repository like PubMed Central or DRUM. Read more about this legislation on the [SPARC Resources](#) web site. The text and current status of the bill can be accessed through THOMAS at [S.2695](#). Watch this space for further developments!

## NIH Public Access Policy

In 2005, NIH announced a policy for grantees asking them to deposit articles based on funded research into PubMed Central. To learn about the policy and how it relates to DRUM, check out our [Answers to Common Questions](#) page.

In addition, read the [Memo to Campus Faculty](#) from Dean Charles Lowry discussing the new policy and outlining what funded researchers



# DRUM

Digital Repository at the University of Maryland

**Search DRUM:**  
   
[Advanced Search](#)

- [Home](#)
- Browse**
  - [Communities & Collections](#)
  - [Titles](#)
  - [Authors](#)
  - [By Date](#)

- My DRUM:**
- [Login for Submissions](#)
  - [Subscriptions](#)
  - [Profile](#)

- [Help](#)
- [About DRUM](#)
- [About Download Statistics](#)

DRUM >

## Welcome to the repository for University of Maryland research.

**Any UM Faculty member can make digital works permanently accessible and available across the Internet with DRUM.** [Find out more about depositing your work.](#)

Learn more:

- [About DRUM](#)
- [About Institutional Repositories](#)

## The following communities of digital works are available:

### Collections Organized by Department

- [A. James Clark School of Engineering](#)
- [College of Agriculture & Natural Resources](#)
- [College of Architecture, Planning, & Preservation](#)
- [College of Arts & Humanities](#)
- [College of Behavioral & Social Sciences](#)
- [College of Chemical & Life Sciences](#)
- [College of Computer, Mathematical & Physical Sciences](#)

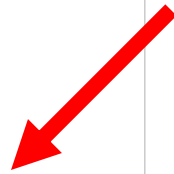
## Federal Research Public Access Act of 2006

Senators Cornyn (R-TX), Lieberman (D-CT) and Sessions (R-AL) have introduced legislation that would require federal agencies with research portfolios of \$100 million or more to make resulting peer-reviewed articles publicly available online within 6 months of publication. Research results would need to be preserved and made available via a stable, open access digital repository like PubMed Central or DRUM. Read more about this legislation on the [SPARC Resources](#) web site. The text and current status of the bill can be accessed through THOMAS at [S.2695](#). Watch this space for further developments!

## NIH Public Access Policy

In 2005, NIH announced a policy for grantees asking them to deposit articles based on funded research into PubMed Central. To learn about the policy and how it relates to DRUM, check out our [Answers to Common Questions](#) page.

In addition, read the [Memo to Campus Faculty](#) from Dean Charles Lowry discussing the new policy and outlining what funded researchers





# DRUM

Digital Repository at the University of Maryland

## Log In to DRUM

[Help...](#)

### UM user

Please enter your campus directory id and password into the form below.

**Directory ID:**

**Directory Password:**

### Non UM user

**New user? [Click here to register.](#)**

Please enter your e-mail address and password into the form below.

**E-mail Address:**

**Password:**

Have you [forgotten your password?](#)

DRUM is brought to you by the [University of Maryland Libraries](#)  
University of Maryland, College Park, MD 20742-7011 (301)314-1328.

[Privacy Policy](#)

Please send us your [comments](#).

[All Contents](#)





# DRUM

Digital Repository at the University of Maryland

**Search DRUM:**  
   
[Advanced Search](#)

- † [Home](#)
- Browse**
- † [Communities & Collections](#)
- † [Titles](#)
- † [Authors](#)
- † [By Date](#)

- My DRUM:**
- † [Login](#) for Submissions Subscriptions Profile
  - † [Help](#)
  - † [About DRUM](#)
  - † [About Download Statistics](#)



DRUM >

## Welcome to the repository for University of Maryland research.

**Any UM Faculty member can make digital works permanently accessible and available across the Internet with DRUM.** [Find out more about depositing your work.](#)

Learn more:

- [About DRUM](#)
- [About Institutional Repositories](#)

## The following communities of digital works are available:

### Collections Organized by Department

- [A. James Clark School of Engineering](#)
- [College of Agriculture & Natural Resources](#)
- [College of Architecture, Planning, & Preservation](#)
- [College of Arts & Humanities](#)
- [College of Behavioral & Social Sciences](#)
- [College of Chemical & Life Sciences](#)
- [College of Computer, Mathematical & Physical Sciences](#)

## Federal Research Public Access Act of 2006

Senators Cornyn (R-TX), Lieberman (D-CT) and Sessions (R-AL) have introduced legislation that would require federal agencies with research portfolios of \$100 million or more to make resulting peer-reviewed articles publicly available online within 6 months of publication. Research results would need to be preserved and made available via a stable, open access digital repository like PubMed Central or DRUM. Read more about this legislation on the [SPARC Resources](#) web site. The text and current status of the bill can be accessed through THOMAS at [S.2695](#). Watch this space for further developments!

## NIH Public Access Policy

In 2005, NIH announced a policy for grantees asking them to deposit articles based on funded research into PubMed Central. To learn about the policy and how it relates to DRUM, check out our [Answers to Common Questions](#) page.

In addition, read the [Memo to Campus Faculty](#) from Dean Charles Lowry discussing the new policy and outlining what funded researchers

---

# DRUM Policies

- Depositor must be a UM faculty member
- Depositor must have the ability to assign needed rights to UM
- Deposits must be substantive works of scholarship
- Deposits must be complete and able to stand alone as a work or collection (no notes, etc.)
- No restrictions on file formats



---

# How Does DRUM Work?

- UM faculty members deposit their work in DRUM
- Paper is uploaded and bibliographic record is created
- Full text of the submitted work is indexed via Google and other search engines



[Web](#) [Images](#) [Video](#) [News](#) [Maps](#) [more »](#)

etsd university of maryland

Search

[Advanced Search](#)  
[Preferences](#)

Web

Results 1 - 10 of about 17,600 for **etsd** [university](#) of [maryland](#). (0.06 seconds)[DRUM: Item 1903/3996](#) 

Title:, **ETDs** and Digital Repositories--a Disciplinary Challenge to Open Access? ... DRUM is brought to you by the **University of Maryland** Libraries ...

<https://drum.umd.edu/dspace/handle/1903/3996> - 11k - [Cached](#) - [Similar pages](#)

[DRUM: Item 1903/3996](#)

subject, **University of Maryland**, en. subject, Libraries, en. subject, Library, en. subject, Institutional Repository, en. title, **ETDs** and Digital ...

<https://drum.umd.edu/dspace/handle/1903/3996?mode=full> - 14k - [Cached](#) - [Similar pages](#)

[directory of ETDs currently in progress](#)

Directory of **ETDs** Currently in Progress. All of the works listed below exist ... **University of Maryland** at College Park (Ph.D. dissertation). Salo, Merja. ...

[etext.virginia.edu/ETD/directory/browse.html](http://etext.virginia.edu/ETD/directory/browse.html) - 12k - [Cached](#) - [Similar pages](#)

[Charles B. Lowry - Editorial: ETDs and Digital Repositories--a ...](#)

**ETDs** and Digital Repositories—a Disciplinary Challenge to Open Access? Charles B. Lowry. The **University of Maryland** Libraries have managed a repository ...

[muse.jhu.edu/journals/portal\\_libraries\\_and\\_the\\_academy/v006/6.4lowry02.html](http://muse.jhu.edu/journals/portal_libraries_and_the_academy/v006/6.4lowry02.html) - [Similar pages](#)

[Yale Fineman - Electronic Theses and Dissertations - portal ...](#)

This essay focuses on access and technology issues concerning **ETDs**: on the nature ... at the Michelle Smith Performing Arts Library, **University of Maryland**; ...

[muse.jhu.edu/journals/portal\\_libraries\\_and\\_the\\_academy/v003/3.2fineman.html](http://muse.jhu.edu/journals/portal_libraries_and_the_academy/v003/3.2fineman.html) - [Similar pages](#)

[ [More results from muse.jhu.edu](#) ]

[The Graduate School - University of Maryland](#)

Schedule of Training Sessions | Formatting Requirements for **ETDs** | Special Cases

Search DRUM:  (go)   
 [Advanced Search](#)

[DRUM >](#)  
[College of Information Studies >](#)  
[Information Studies >](#)  
[Information Studies Research Works >](#)

[Home](#)

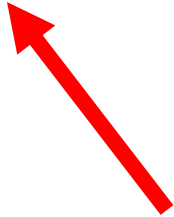
**Browse**  
[Communities & Collections](#)  
[Titles](#)  
[Authors](#)  
[By Date](#)

**My DRUM:**  
[Login for Submissions](#)  
[Subscriptions](#)  
[Profile](#)

[Help](#)  
[About DRUM](#)  
[About Download Statistics](#)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/1903/3996>

**Title:** ETDs and Digital Repositories--a Disciplinary Challenge to Open Access?  
**Authors:** Lowry, Charles B.  
**Type:** Article  
**Keywords:** Digital Repository at the University of Maryland  
ETD  
Theses  
Dissertations  
DSpace  
Intellectual Property  
University of Maryland  
Libraries  
Library  
Institutional Repository  
**Issue Date:** Oct-2006  
**Publisher:** Johns Hopkins University Press  
**Citation:** Lowry, Charles B., "ETDs and Digital Repositories--a Disciplinary Challenge to Open Access?" portal: Libraries and the Academy vol.6, no.4 (2006): 387-393.  
**Abstract:** The University of Maryland Libraries have managed a repository using D-Space software for over two years, providing faculty a service for posting their research work and a foundation for moving the labor intensive management of paper dissertations and theses to the digital environment. Close cooperation with the Graduate School has been an essential feature of moving to a uniform requirement that theses and dissertations be presented in PDF format and posted in the Digital Repository at University of Maryland (DRUM). At an early stage, intellectual property issues began to emerge as an important policy dimension of managing DRUM—as they have for virtually any institution that gets into the digital repository business.  
**URI:** <http://hdl.handle.net/1903/3996>  
**Appears in Collections:** [Information Studies Research Works](#)  
[Library Faculty Research Works](#)



**Files in This Item:**

File	Description	Size	Format	No. of Downloads	
Portal.6.4.pdf		194Kb	Adobe PDF	10	<a href="#">View/Open</a>

[Show full item record](#)

All items in DRUM are protected by copyright, with all rights reserved.

Search DRUM:  (go)   
 [Advanced Search](#)

- [DRUM >](#)
- [College of Information Studies >](#)
- [Information Studies >](#)
- [Information Studies Research Works >](#)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/1903/3996>

[Home](#)

**Browse**

- [Communities & Collections](#)
- [Titles](#)
- [Authors](#)
- [By Date](#)

**My DRUM:**

- [Login for Submissions](#)
- [Subscriptions](#)
- [Profile](#)

- [Help](#)
- [About DRUM](#)
- [About Download Statistics](#)

**Title:** ETDs and Digital Repositories--a Disciplinary Challenge to Open Access?

**Authors:** Lowry, Charles B.

**Type:** Article

**Keywords:** Digital Repository at the University of Maryland

- ETD
- Theses
- Dissertations
- DSpace
- Intellectual Property
- University of Maryland
- Libraries
- Library
- Institutional Repository

**Issue Date:** Oct-2006

**Publisher:** Johns Hopkins University Press

**Citation:** Lowry, Charles B., "ETDs and Digital Repositories--a Disciplinary Challenge to Open Access?" portal: Libraries and the Academy vol.6, no.4 (2006): 387-393.

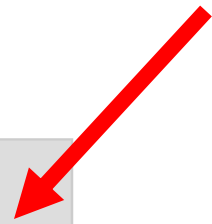
**Abstract:** The University of Maryland Libraries have managed a repository using D-Space software for over two years, providing faculty a service for posting their research work and a foundation for moving the labor intensive management of paper dissertations and theses to the digital environment. Close cooperation with the Graduate School has been an essential feature of moving to a uniform requirement that theses and dissertations be presented in PDF format and posted in the Digital Repository at University of Maryland (DRUM). At an early stage, intellectual property issues began to emerge as an important policy dimension of managing DRUM—as they have for virtually any institution that gets into the digital repository business.

**URI:** <http://hdl.handle.net/1903/3996>

**Appears in Collections:** [Information Studies Research Works](#)  
[Library Faculty Research Works](#)

**Files in This Item:**

File	Description	Size	Format	No. of Downloads	
Portal.6.4.pdf		194Kb	Adobe PDF	10	<a href="#">View/Open</a>



[Show full item record](#)

All items in DRUM are protected by copyright, with all rights reserved.

# ETDs and Digital Repositories— a Disciplinary Challenge to Open Access?

---

Charles B. Lowry

The University of Maryland Libraries have managed a repository using D-Space software for over two years, providing faculty a service for posting their research work and a foundation for moving the labor intensive management of paper dissertations and theses to the digital environment. Close cooperation with the Graduate School has been an essential feature of moving to a uniform requirement that theses and dissertations be presented in PDF format and posted in the Digital Repository at University of Maryland (DRUM). At an early stage, intellectual property issues began to emerge as an important policy dimension of managing DRUM—as they have for virtually any institution that gets into the digital reposi-

---

**I believe that these issues are indicative of some of the essential differences in the nature of information exchange among the disciplines and shape their reaction to open access.**

---

---

# Why Deposit in DRUM?

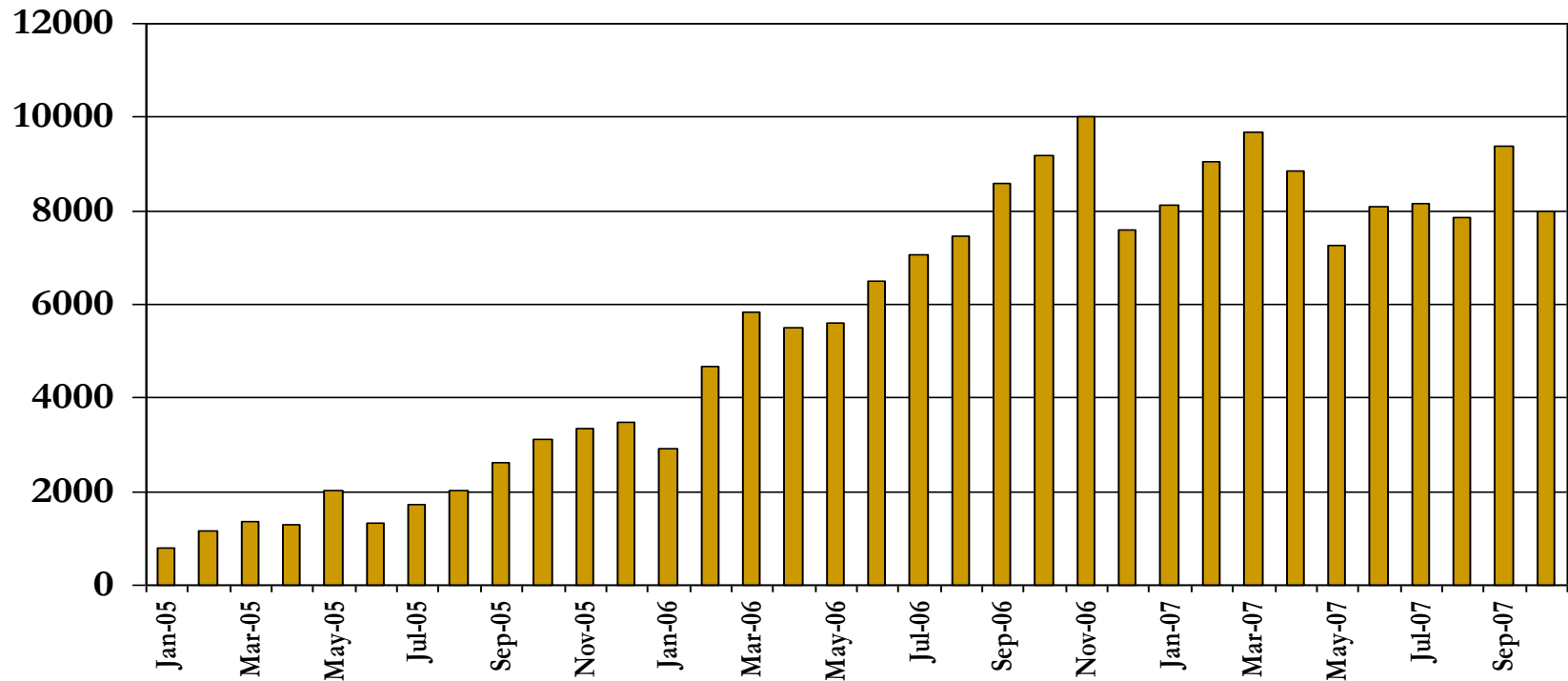
- 1) Research can be found, read, and used by a global audience
- 2) Greatly increases the chances of the research being cited
- 3) Access is maintained with a permanent URL
- 4) Able to link to the permanent URL from any web page; no need to maintain files or changing URLs on personal web sites
- 5) Easy to deposit works along with associated content
- 6) Allows any researcher to locate documents of interest quickly and easily from any computer at any location
- 7) Download statistics available for each record





# DRUM Statistics

- Searches per month
  - avg 2025 per month in 2005
  - avg 6700+ per month in 2006
  - avg 8400+ per month this year



**DRUM**

---

# Author Rights

- DRUM only asks for **non-exclusive** rights to keep the work, preserve it, and make it available on the web.
- For works already published, consult the publisher agreement to see if you retained sufficient rights to deposit the work in DRUM.
- Even if you have given all rights to the publisher, contact them and request permission to deposit in DRUM



---

# DRUM Marketing Goals

- To educate UM faculty members about DRUM and open access issues
- To inspire UM faculty members to deposit their works in DRUM
- To increase awareness of DRUM



---

# Faculty Needs and Desires

- Work with co-authors
- Keep track of different versions of the same document
- Work from different computers and locations
- Make their own work available to others
- Have easy access to other people's work
- Keep up in their fields
- Organize their materials according to their own scheme

*<http://www.dlib.org/dlib/january05/foster/01foster.html>*



**DRUM**

# Faculty Needs and Desires (cont)

- Control ownership, security, and access
- Ensure that documents are persistently viewable or usable
- Have someone else take responsibility for servers & digital tools
- Be sure not to violate copyright issues
- Keep everything related to computers easy & flawless
- Reduce chaos or at least not add to it
- Not be any busier



---

# Faculty Outreach

- New Faculty Orientation every August
- Letter and email campaign to UM faculty maintaining links to papers from personal web pages
  - Offer to deposit on their behalf
  - Check publisher permissions
  - 350 faculty members contacted
  - 54 responded



# Outreach to Departments

- UM departments with collections of research papers
  - Computer Science and UMIACS technical reports
  - ISR (Institute for Systems Research)
  - CFNAP (Center for Food, Nutrition, and Agriculture Policy)
  - CISSM (Center for International Security Studies at Maryland)
  - CIRCLE (Center for Information & Research on Civic Learning & Engagement)



---

# Communications / Collateral

- Faculty email messages
- Develop brochure or factsheet outlining benefits of DRUM
- Press release / articles in the media
- Postcard mailings
- Establish regular newsletter or email updates
- Advertise regular DRUM training workshops





---

# Marketing Strategies

- Highlight and promote recent submissions
- Showcase the work of individual faculty members
- Publicize statistics (top 10 accessed, etc.) to confirm value
- Obtain testimonials (names featured in publicity & promotional materials)
- Find champions of the service and have them promote DRUM
- Utilize library subject specialists/faculty liaisons



---

# ETDs – Electronic Theses and Dissertations

- Mandatory since September 2003
- Submitted via the Web in PDF form
- Students give UM non-exclusive rights
- Automatically deposited in DRUM
- Also available via ProQuest's *Digital Dissertations*



---

# ETD Concerns

- Will journal publishers still accept my article if it is available electronically?
- What if I want to submit a patent based on my research?
- What if I want to write a book related to my thesis or dissertation?
- Won't it be easier for someone to plagiarize my research if it is freely available online?



---

# ETD Embargo Options

- Restrict access for one year
- Restrict access for six years
- Restrict access indefinitely
  - Requires written approval by the Dean of the Graduate School
- Non-circulating copy still available in the Maryland Room at Hornbake



---

# Why Embargo?

- For 1-year embargoes
  - Seek patent protection for material in the thesis or dissertation
  - Publish in a journal that has restrictions for depositing in an open access repository
- For 6-year embargoes
  - Publish a book based on your dissertation



- [Login for Submissions](#)
- [Subscriptions](#)
- [Profile](#)
- [Help](#)
- [About DRUM](#)
- [About Download Statistics](#)

quantum computing; superconducting qubit; Josephson junction; SQUID; decoherence

**Issue Date:** 17-Sep-2007

**Abstract:** I report measurements of energy relaxation and quantum coherence times in an aluminum dc SQUID phase qubit and a niobium dc SQUID phase qubit at 80 mK. In a dc SQUID phase qubit, the energy levels of one Josephson junction are used as qubit states and the rest of the SQUID forms an inductive network to isolate the qubit junction. Noise current from the SQUID's current bias leads is filtered by the network, with the amount of filtering depending on the ratio of the loop inductance to the Josephson inductance of the isolation junction. The isolation unction inductance can be tuned by adjusting the current, and this allows the isolation to be varied in situ. I quantify the isolation by the isolation factor  $r_I$  which is the ratio of the current noise power in the qubit junction to the total noise current power on its bias leads. I measured the energy relaxation time  $T_1$ , the spectroscopic coherence time  $T_2^*$  and the decay time constant  $T'$  of Rabi oscillations in the Al dc SQUID phase qubit A...

**URI:** <http://hdl.handle.net/1903/7469>

**Appears in Collections:** [UM Theses and Dissertations](#)  
[Physics Theses and Dissertations](#)

**Files in This Item:**

File	Description	Size	Format	No. of Downloads	
umi-umd-4862.pdf	RESTRICTED ACCESS	33808Kb	Adobe PDF	0	<a href="#">View/Open</a>

[Show full item record](#)

All items in DRUM are protected by copyright, with all rights reserved.



# DRUM

Digital Repository at the University of Maryland

## Search DRUM:



[Advanced Search](#)

[Home](#)

## Browse

[Communities  
& Collections](#)

[Titles](#)

[Authors](#)

[By Date](#)

## My DRUM:

[Login](#) for

Submissions

Subscriptions

Profile

[Help](#)

[DRUM](#) >

## Restricted Access

At the request of the author, this file is not available online until September 01, 2008. For more information on the availability of this file, please contact DRUM Help at [drum-help@umd.edu](mailto:drum-help@umd.edu) or +1 301 314-1328.

# UM Embargo Statistics

	Degrees Awarded	1-year	6-year	Total	Percent
<b>Fall 2006</b>	266	47	23	70	<b>26%</b>
<b>Spring 2007</b>	398	79	46	125	<b>31%</b>
<b>Summer 2007</b>	291	53	26	79	<b>27%</b>
<b>TOTALS</b>	955	179	95	274	<b>29%</b>





# Embargoes by College

	Degrees	1-yr	6-yr	Total	Percent
Engineering	265	46	12	58	22%
Ag & Natural Res	37	8	7	15	41%
Architecture	23	0	3	3	13%
Arts & Humanities	120	10	35	46	38%
Behavioral & Soc Sci	119	14	9	23	19%
Chem & Life Sci	97	41	4	46	47%
Comp, Math & Phy Sci	128	24	3	27	21%
Education	90	21	11	32	36%
Journalism	4	0	0	0	0%
Business	24	8	4	12	50%
Public Health	35	4	5	9	26%
Public Policy	11	2	1	3	27%



---

# Future Challenges

- Persuading faculty to deposit
- Versioning
- Open embargoes to UM campus
- Undergraduate research
- Preservation



---

# Questions?

Terry Owen  
DRUM Coordinator  
towel@umd.edu



**DRUM**