
ETDs: A Logical Addition to Your Digital Repository?

Terry M. Owen
DRUM Coordinator

NISO Forum
3 December 2007



DRUM

DRUM Background

- Initial proposal to Provost - 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
 - 1100 documents
 - 7100+ documents as of November 2007



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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](#)

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[College of Information Studies](#)

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[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

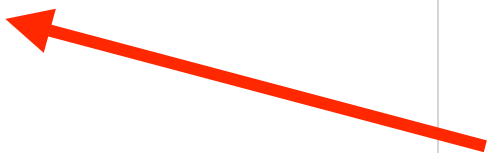
New submissions to the thesis/dissertation collections are added automatically as they are received from the Graduate School. Currently, the Graduate School deposits all theses and dissertations from a given semester after the official graduation date. This means that there may be up to a 4 month delay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

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

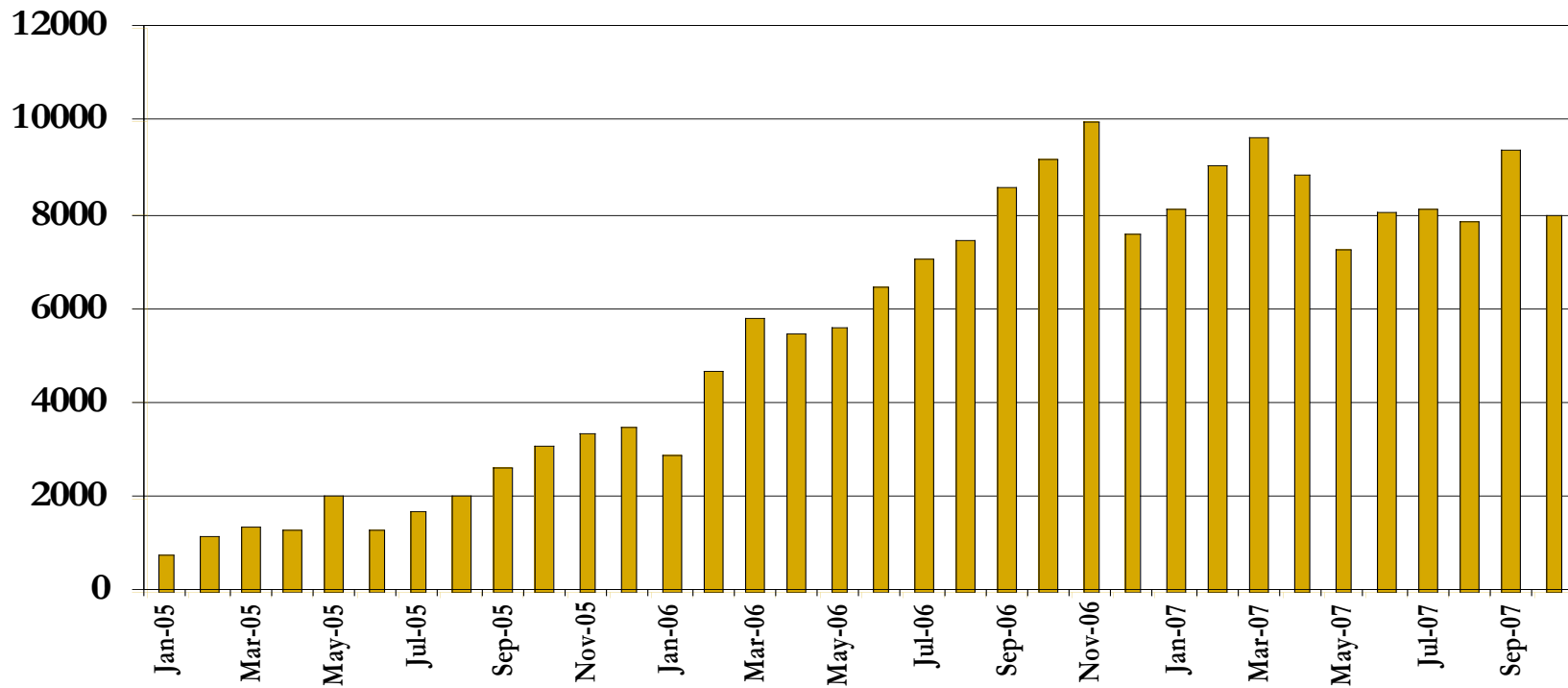
DRUM Content

3476	Theses & Dissertations
3354	Technical Reports
325	Faculty Contributions
7155	TOTAL (as of October 2007)



DRUM Statistics

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



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ETD Stakeholders

- Students
- Faculty Advisors
- Graduate School
- Library
- IT Department



ETD Software Options

- Commercial

- ProQuest / BEPRESS

- Open Source

- ETD-db (Virginia Tech & NDLTD)

- NDLTD

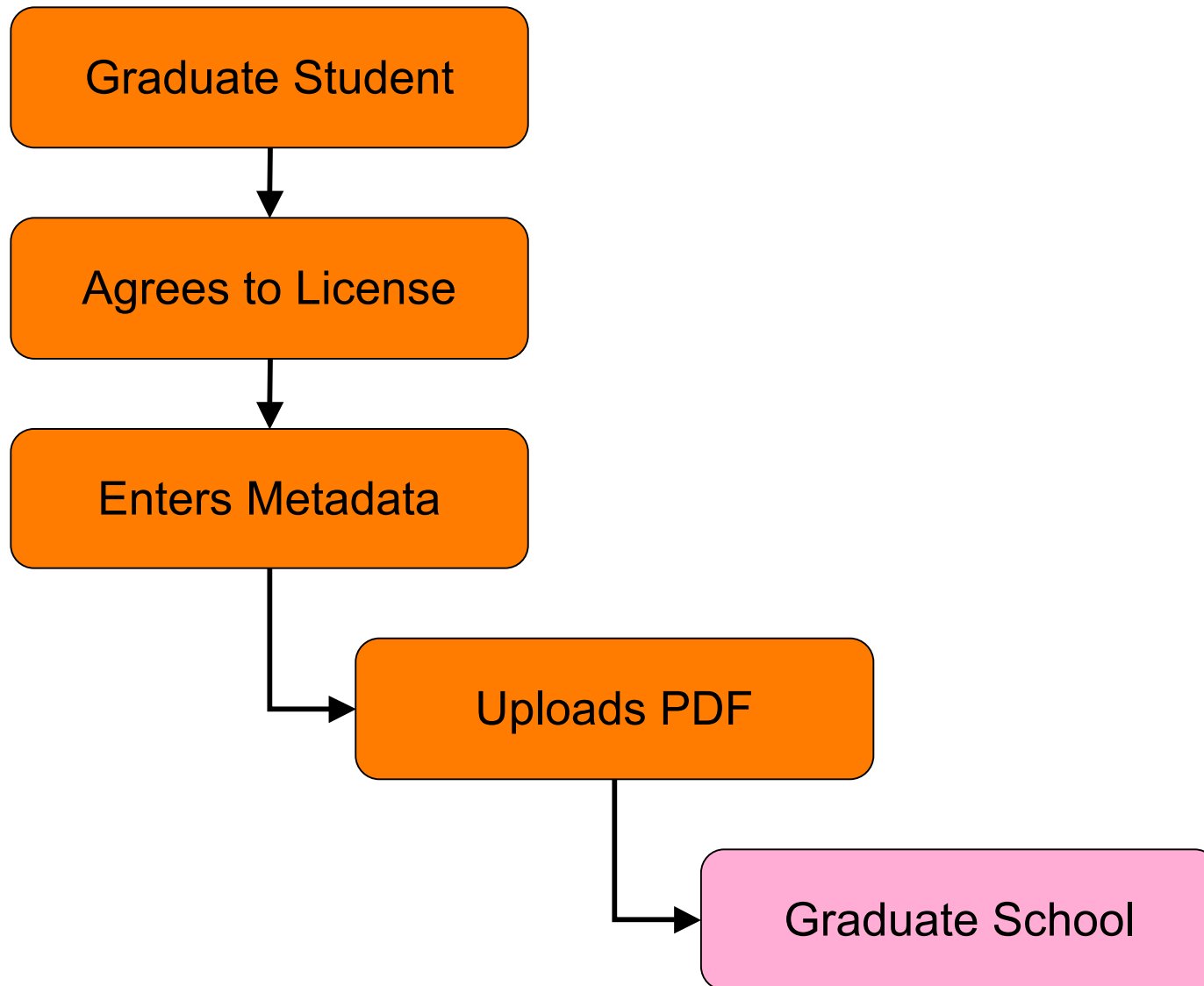
- Networked Digital Library of Theses and Dissertations
- <http://www.ndltd.org/>

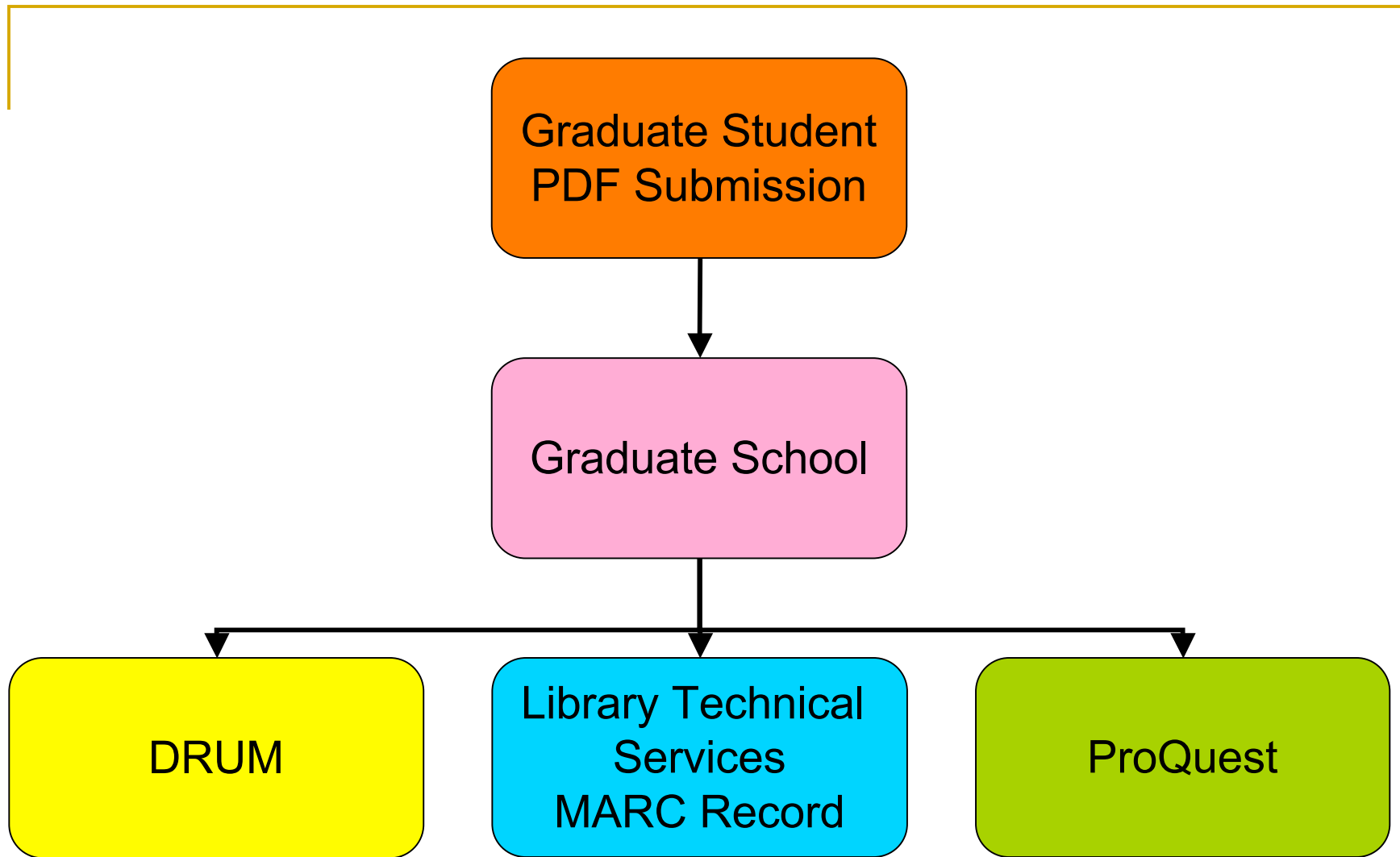


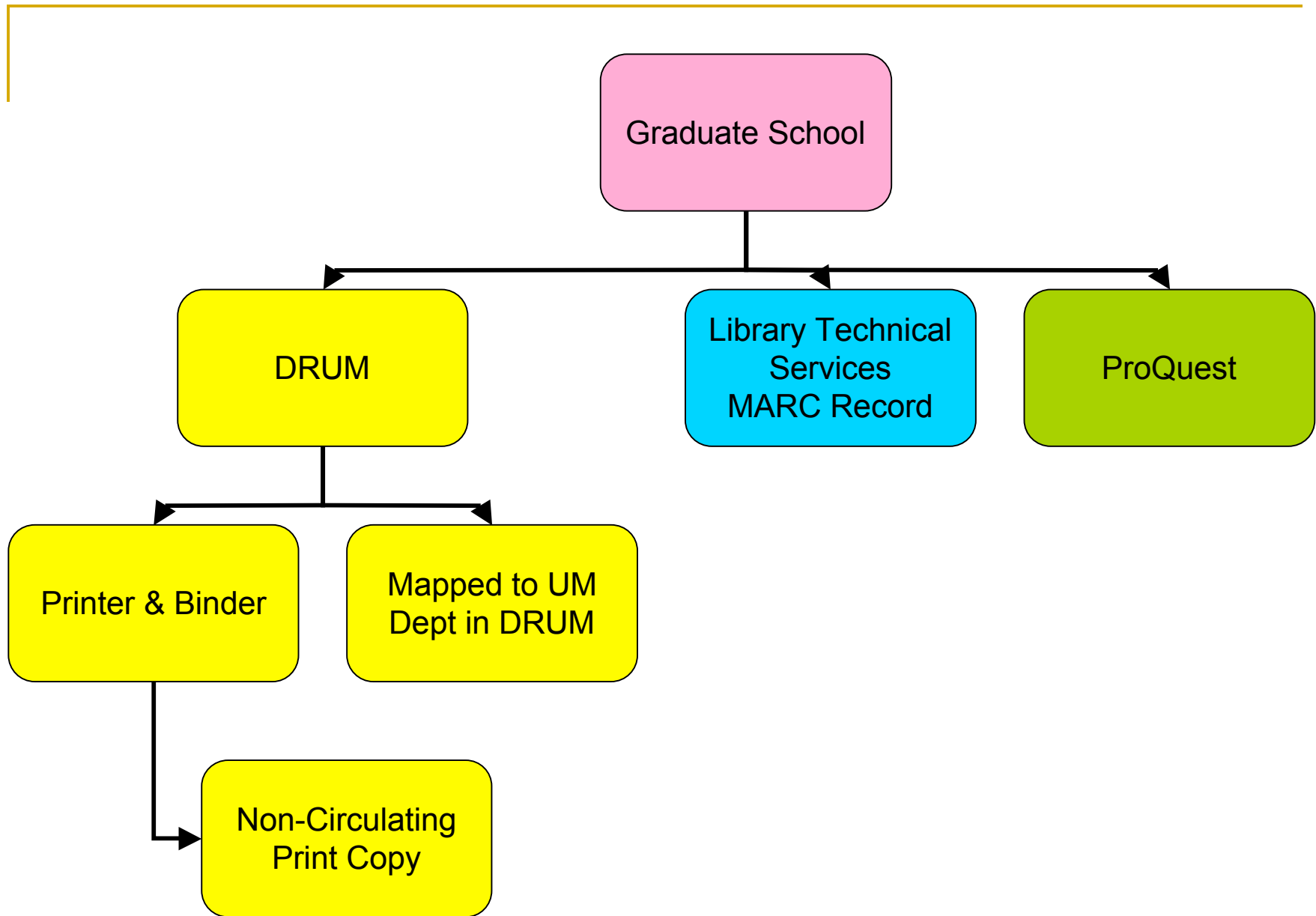
ETD Benefits

- 1) Research can be found, read, and used by a global audience
- 2) Greatly increases the chances of the research being cited
- 3) Lower printing and copying costs
- 4) Allows students to interact more efficiently with faculty
- 5) Students can be more creative
- 6) Easy to deposit works along with associated content
- 7) Educates students on electronic publishing
- 8) Showcases an institution's research

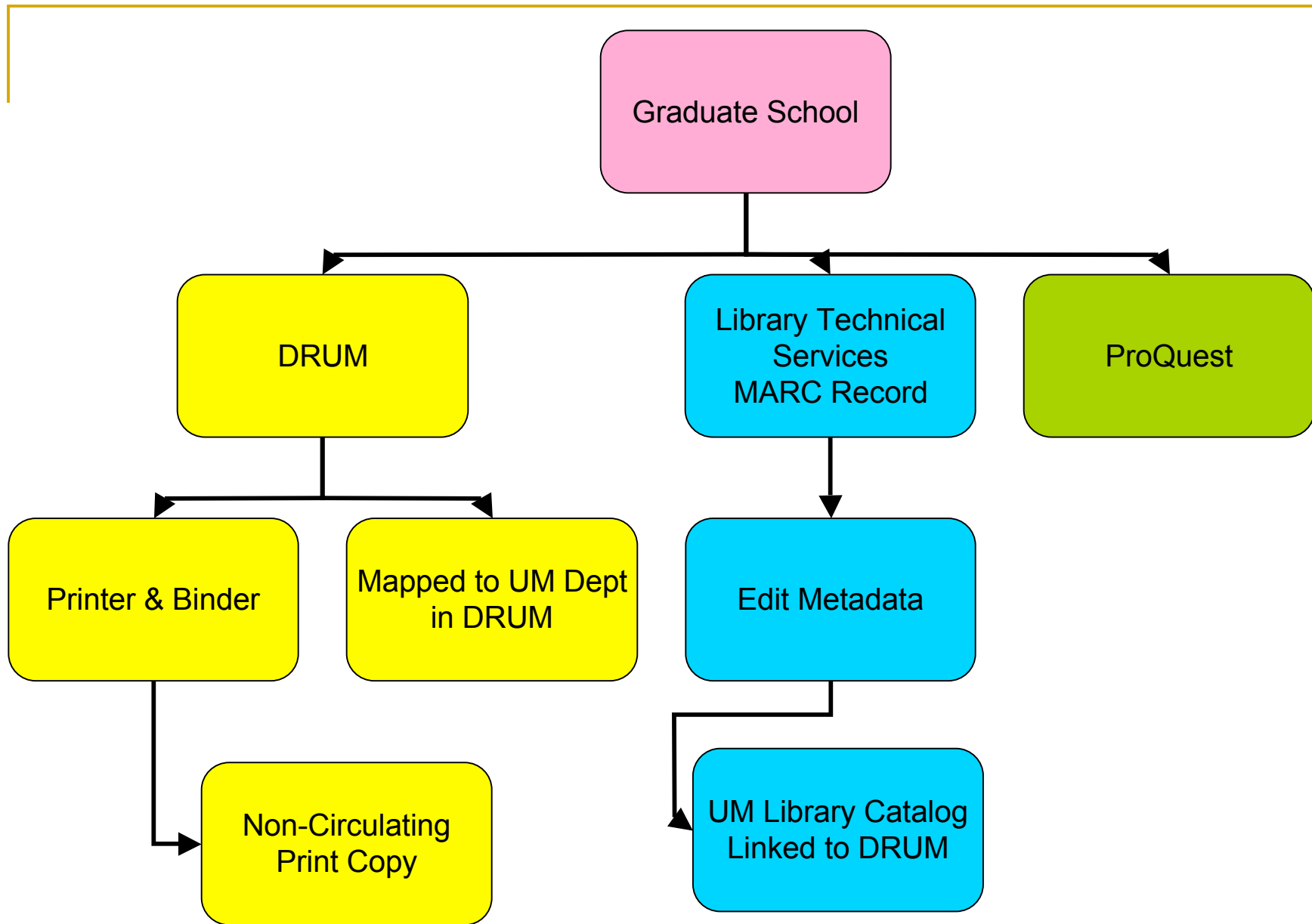




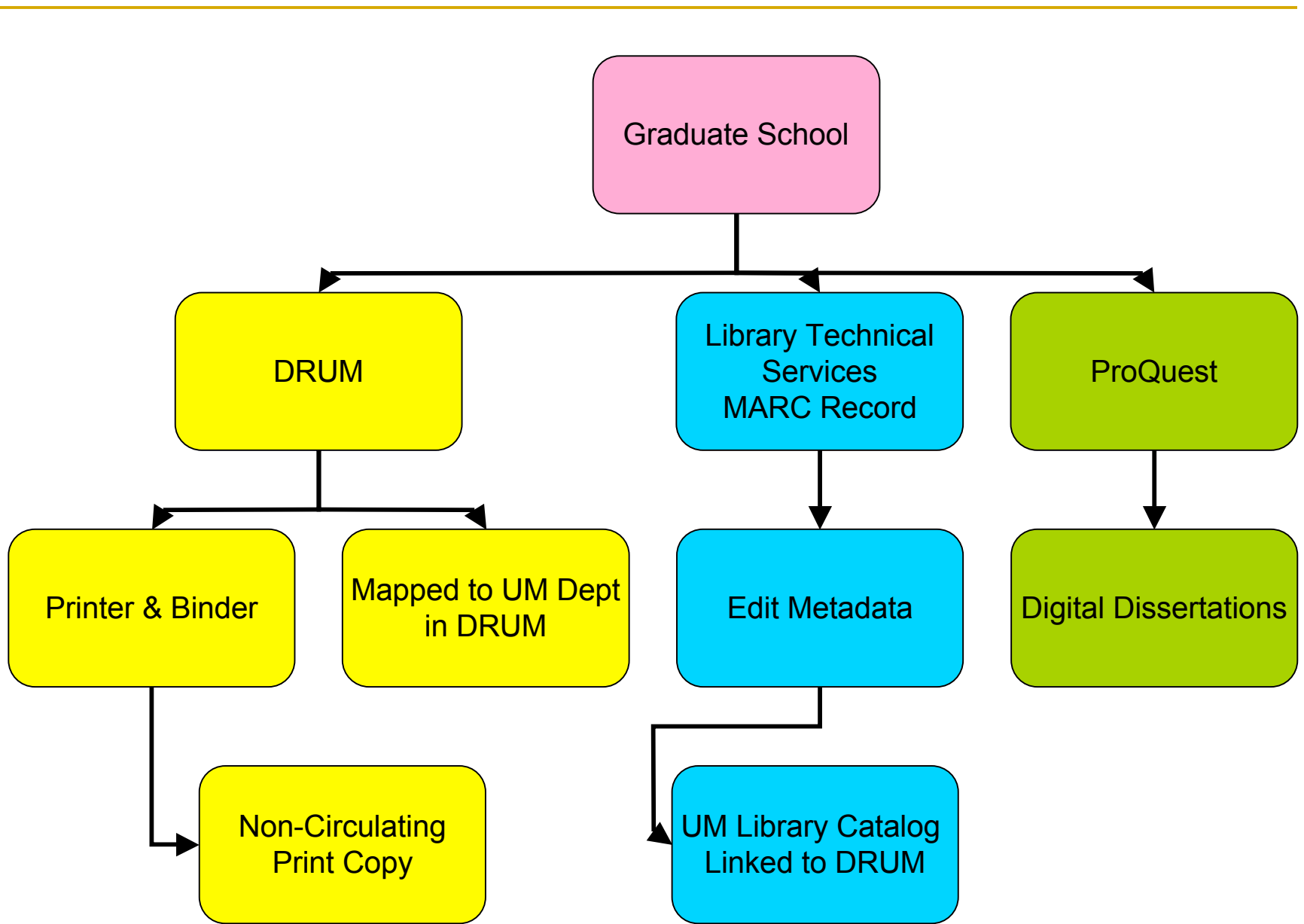




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ETD Concerns

- 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?



UM 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 library





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



DSpace Embargo Options

-  Withhold entire record and PDF from the digital repository
-  Create “open” and “closed” collections



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Cornell University Graduate School

Community home page

The **Cornell University Graduate School** has 93 major fields and 14 minor fields of study. For more information about the **Cornell University Graduate School** go to its [Home Page](#).



In:

Search for

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Collections in this community

- [Theses and Dissertations \(CLOSED\)](#)
- [Theses and Dissertations \(OPEN\)](#)

RECENT SUBMISSIONS

[Analysis of Entrainment and Clamping Loss in an Optically Actuated MEMS](#)




[The Constellational Diaspora: Filipino Literature and Late Twentieth Century Imperialism](#)

[The Elongator Complex Negatively Regulates Polarized Secretion](#)

[Using Data Envelopment Analysis to Evaluate the Performance of Post-Hurricane Electric Power Restoration Activities](#)

[The Conjunctive Account of Knowing](#)

DSpace Embargo Options

-  Withhold entire record and PDF from the digital repository
-  Create “open” and “closed” collections
-  **Create non-printable PDFs for viewing**



DSpace at MIT: Life cycle evolution and systematics of Campanulariid hydrozoans - Mozilla Firefox

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http://dspace.mit.edu/handle/1721.1/39414

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Technology, Dept. of Biology; and, the Woods Hole Oceanographic Institution), 2004.
Includes bibliographical references.

URI: <http://hdl.handle.net/1721.1/39414>

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Keywords: 0548 Engineering, Mechanical convection; flow boiling; FC-72; microgap; foam

Issue Date: 5-Oct-2007

Abstract: An open and foam-filled microgap cooler, providing direct liquid cooling for a simulated electronic/photonics component and which eliminates the problematic thermal resistance of the commonly-used thermal interface material (TIM), is examined. The single phase heat transfer and pressure drop results of water are used to validate a detailed numerical model and, together with the convective FC-72 data, establish a baseline for microgap cooler performance. The two-phase heat transfer characteristics of FC-72 are examined at various microgap dimensions, heat fluxes, and mass fluxes and the results are projected onto a flow regime map. Infrared (IR) thermography is used to explore the two-phase characteristic of FC-72 inside the channel instantaneously. Also the single and two-phase heat transfer and pressure drop of porous metal foam which can enhance the cooling capability of low conductive fluid are studied and compared with the performance of the open channel microgap cooler in terms...

URI: <http://hdl.handle.net/1903/7446>

Appears in Collections: [UM Theses and Dissertations](#)
[Mechanical Engineering Theses and Dissertations](#)

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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>

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Restricted Access

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Embargo Process

- Form submitted to Grad School
- Four options
 - allow immediate access
 - 1-year embargo
 - 6-year embargo
 - permanent embargo
- Must be signed by faculty advisor
- Supplemented by 2-page info sheet

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Title of Thesis / Dissertation			
Advisor	Advisor Signature		
I acknowledge that I have reviewed the options for making my thesis or dissertation available on DRUM and I have discussed the options with my advisor.			
Signature	Date		



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UM Embargo Statistics

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



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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	25	3	28	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%



ILL Requests

- Embargoed ETDs available via ILL
- But **NOT** the electronic version
- Developed new process to print and mail documents
- Nine requests from Sept-Nov

FUTURE:

- ILL electronic copy
- Allow campus access to embargoed ETDs



Special Cases – Copyrighted Works

- Works of visual or theatrical art, dance or music performances
- Art or architectural images
- Complete document must be submitted in print or on CD / DVD
- Redacted version submitted electronically for inclusion in DRUM
- Student adds “disclaimer” to front matter
- Note added to DRUM record that the complete version is available in the library



DRUM

Preservation

- Nightly incremental backups, multiple sites
- UM print copy is current archive copy
- Move to archive digital format only

Issues to address:

- Preferred formats / migration plans
- Develop levels of support for formats
- Have hardware and software systems in place to support plan



In Summary...

- ETDs require regular attention
- Build a good relationship with the Graduate School
- Important to educate faculty advisors and students about open access issues
- Be prepared to implement embargoes
- Link ETDs to library catalog
- Keep your cataloging department informed
- Have plans in place for special cases (copyrighted works)
- Establish preservation policies and procedures
- Efficient and capable IT department



Questions?

Terry Owen
DRUM Coordinator
towel@umd.edu



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