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# Acquiring Content: Adding ETDs to Your Digital Repository

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Terry M. Owen  
DRUM Coordinator  
University of Maryland Libraries

ALA Annual  
30 June 2008



**DRUM**

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# 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
  - 7900+ documents as of June 2008





# DRUM

Digital Repository at the University of Maryland

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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.](#)

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- [About DRUM](#)
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## 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 \(faculty\)](#)

## NIH Public Access Policy

In early January 2008, the National Institutes of Health (NIH) announced a revision to its Public Access Policy that ensures that published results of NIH-funded research are publicly available.

Effective April 7, 2008, all peer-reviewed articles arising from NIH funds are required to be submitted to PubMed Central within 12 months of publication. Please visit the [NIH Public Access site](#) for further information.

## 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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### **UM Community-managed Collections**

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

[Center for Advanced Study of Language](#)

[Center for International and Security Studies at Maryland](#)

[Institute for Systems Research](#)

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

[Theses and Dissertations from UM](#)

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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.

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- **[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](#)



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- [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](#)**

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**○ [Materials Science & Engineering](#)**

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**○ [Mechanical Engineering](#)**

- [Mechanical Engineering Research Works](#)
- [Mechanical Engineering Theses and Dissertations](#) ←

# DRUM Content

4046	Theses & Dissertations
3487	Technical Reports
400	Faculty Contributions
<b>7933</b>	<b>TOTAL</b> (as of June 2008)



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# ETD Stakeholders

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





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# ETD Software Options

- Commercial

- ProQuest / BEPRESS

- Open Source

- ETD-db (Virginia Tech & NDLTLD)

- NDLTLD

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

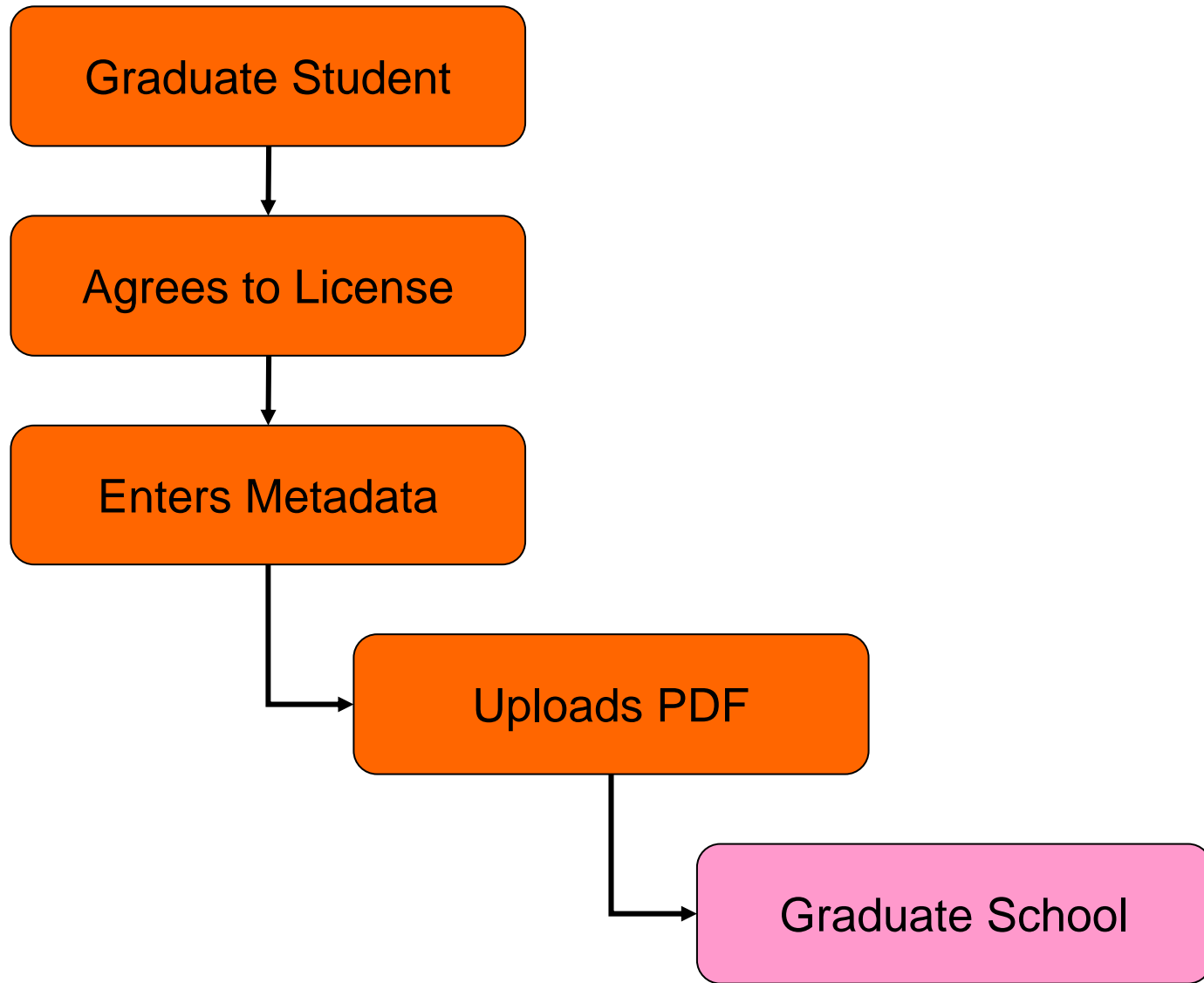


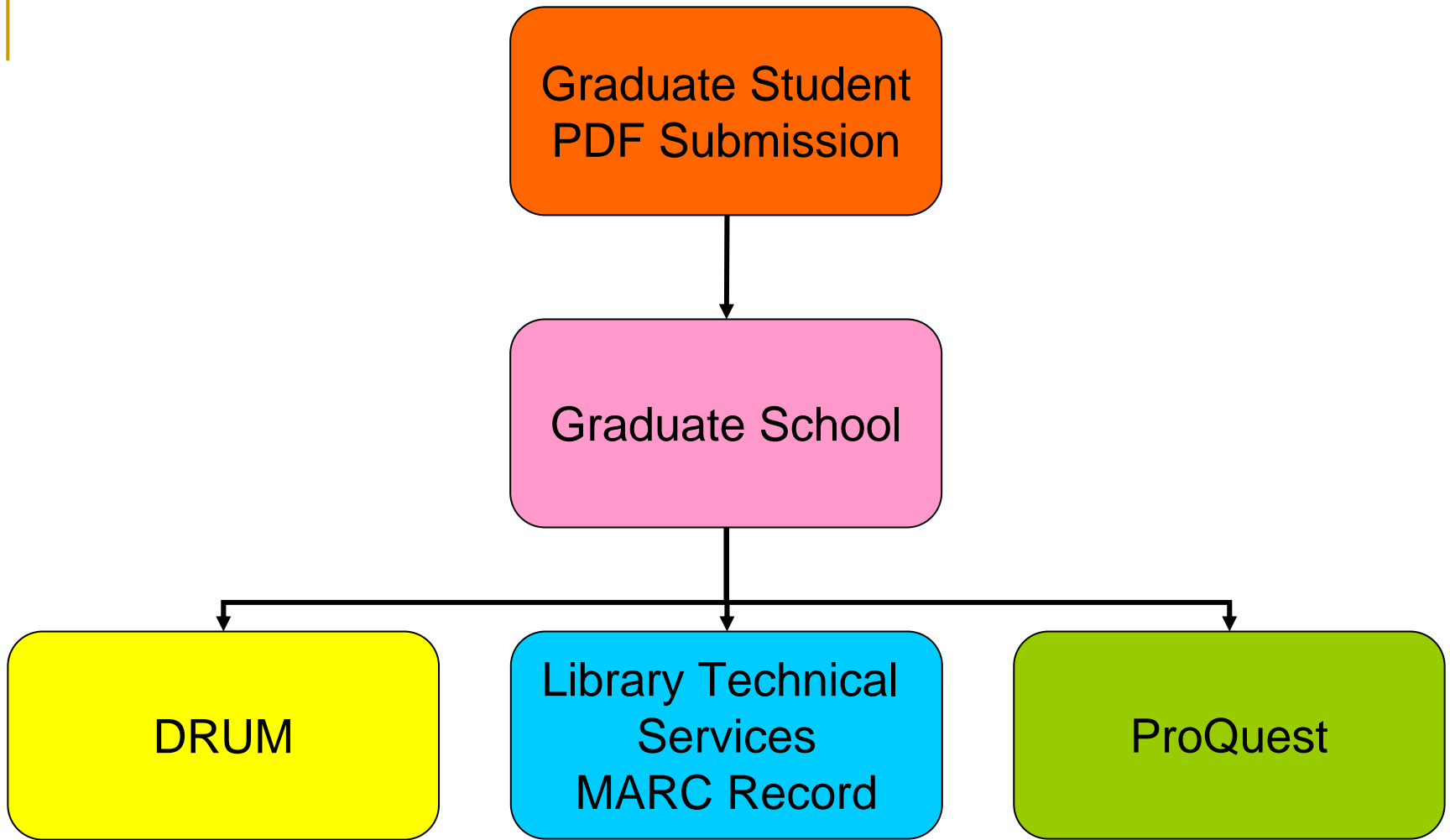
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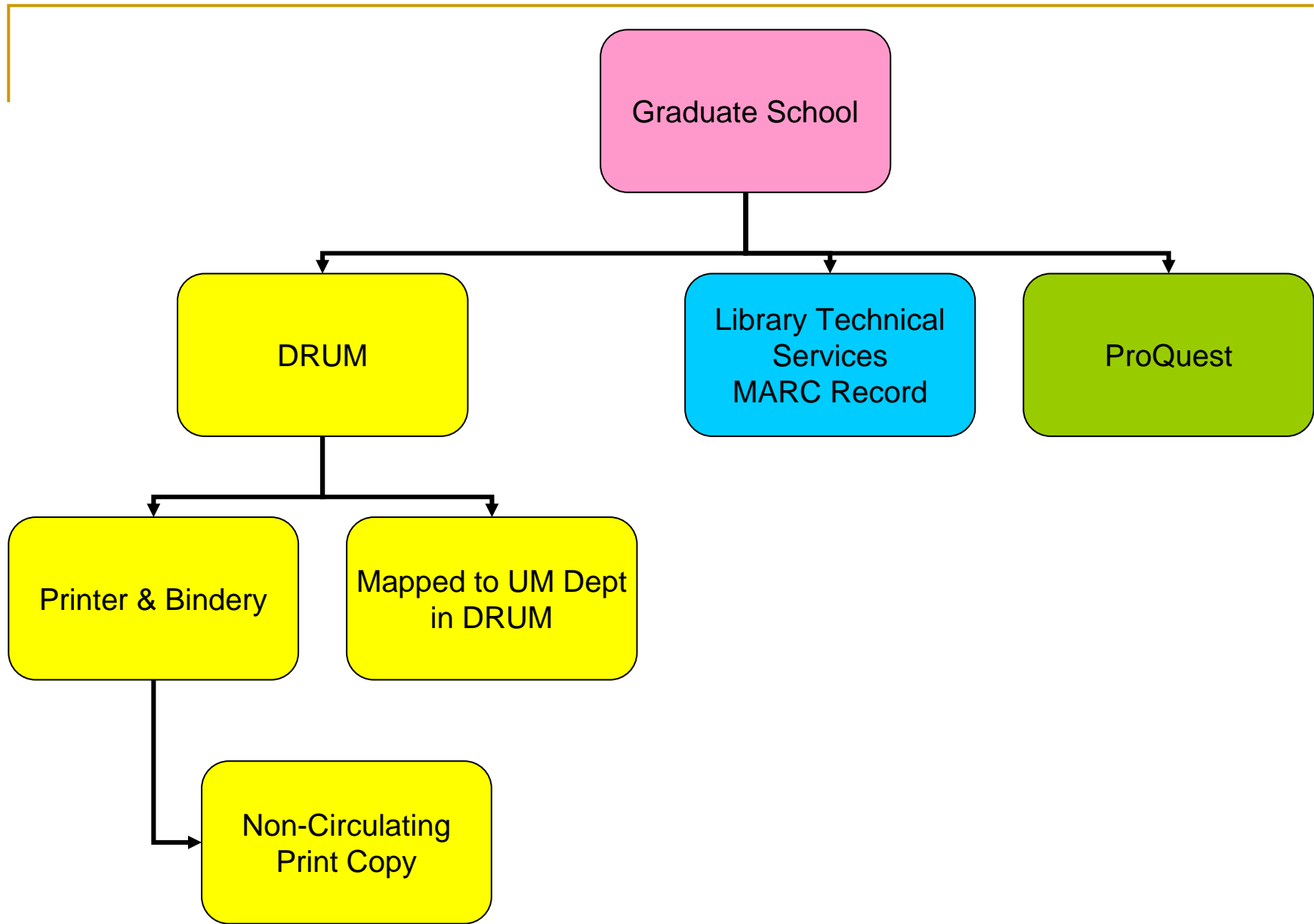
# ETD Benefits

- 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

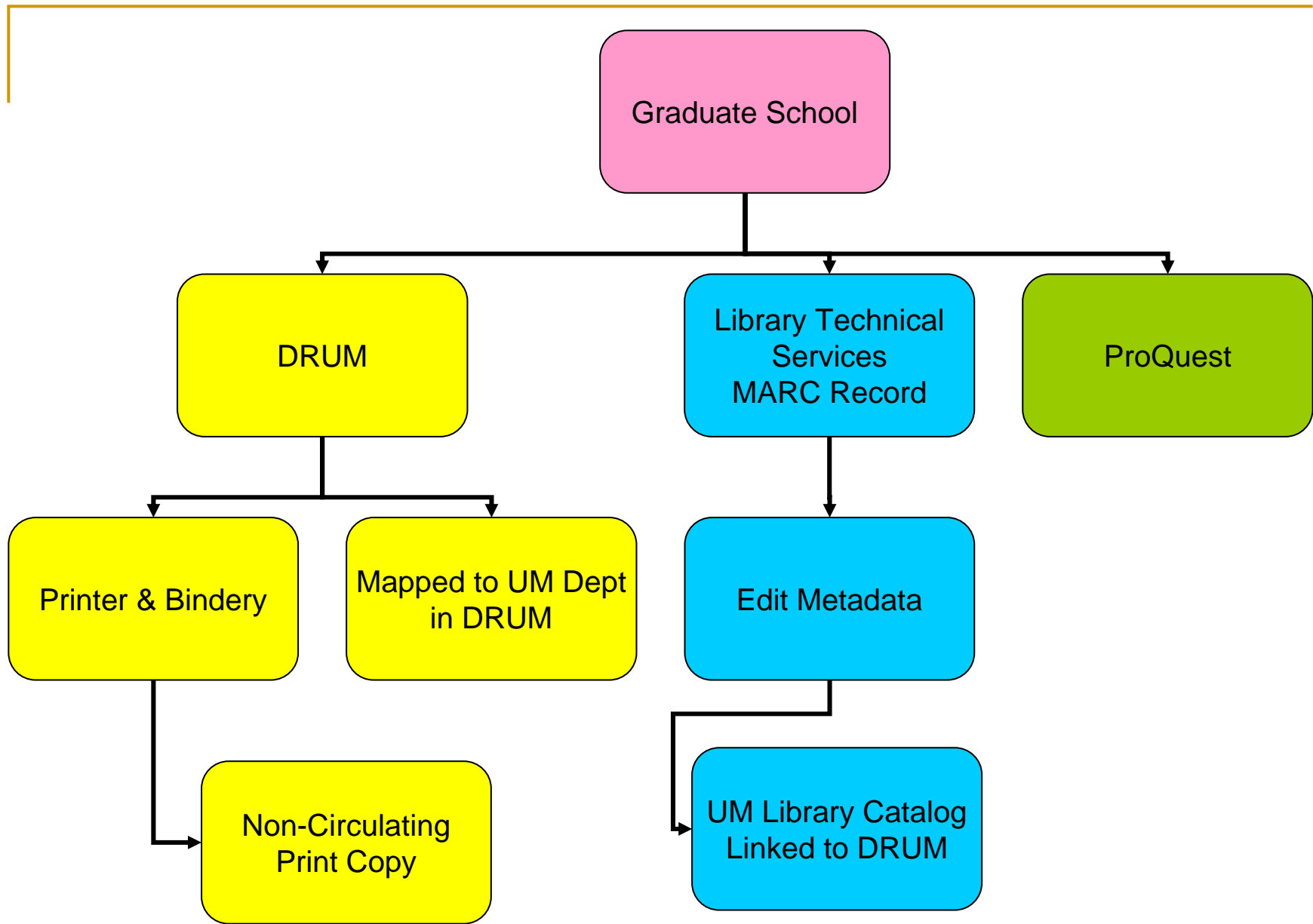















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jump to rec#

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- 1  [Dynamics and aeroelasticity of hover-capable flapping wings \[electronic resource\] : experiments and analysis / by Beerinder Singh.](#)   
**author** Singh, Beerinder.  
**published** 2007  
**format** Theses/Dissertations  
Book  
Electronic Resources (all)  
Electronic Resources (online)  
**location** [UMCP Online Resources\( 1/ 0\)](#)  
[UMCP HBK Maryland Room\( 1/ 0\)](#)  
**internet link** <http://hdl.handle.net/1903/6663>
- 2  [Beamforming algorithms for information relaying in dense wireless networks \[electronic resource\] / by Mohamed Abdallah.](#)   
**author** Abdallah, Mohamed Mahmoud.  
**published** 2006  
**format** Theses/Dissertations  
Book  
Electronic Resources (all)  
Electronic Resources (online)  
**location** [UMCP Online Resources\( 1/ 0\)](#)  
[UMCP HBK Maryland Room\( 1/ 0\)](#)  
**internet link** <http://hdl.handle.net/1903/3424>
- 3  [Mindful use as a link between social capital and organizational learning \[electronic resource\] : an empirical test of the antecedents and consequences of two new constructs / by Heather Lynn Adams.](#)   
**author** Adams, Heather L.  
**published** 2006  
**format** Theses/Dissertations  
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[UMCP HBK Maryland Room\( 1/ 0\)](#)  
**internet link** <http://hdl.handle.net/1903/3424>
  
- 3  [Mindful use as a link between social capital and organizational learning \[electronic resource\] : an empirical test of the antecedents and consequences of two new constructs / by Heather Lynn Adams.](#) 

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in dense wireless networks [electronic resource] / by Mohamed

**author** Adams, Mohamed Hamed

**published** 2006

**format** Theses/Dissertations  
Book  
Electronic Resources (all)  
Electronic Resources (online)

**location** UMCP Online Resources( 1/ 0)  
UMCP HBK Maryland Room( 1/ 0)

**internet link** http://hdl.handle.net/1903/3424

3  Mindful use as a link between social capital and organizational learning [electronic resource] : an empirical test of the antecedents and consequences of two new constructs / by Heather Lynn Adams. find it

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**published** 2006

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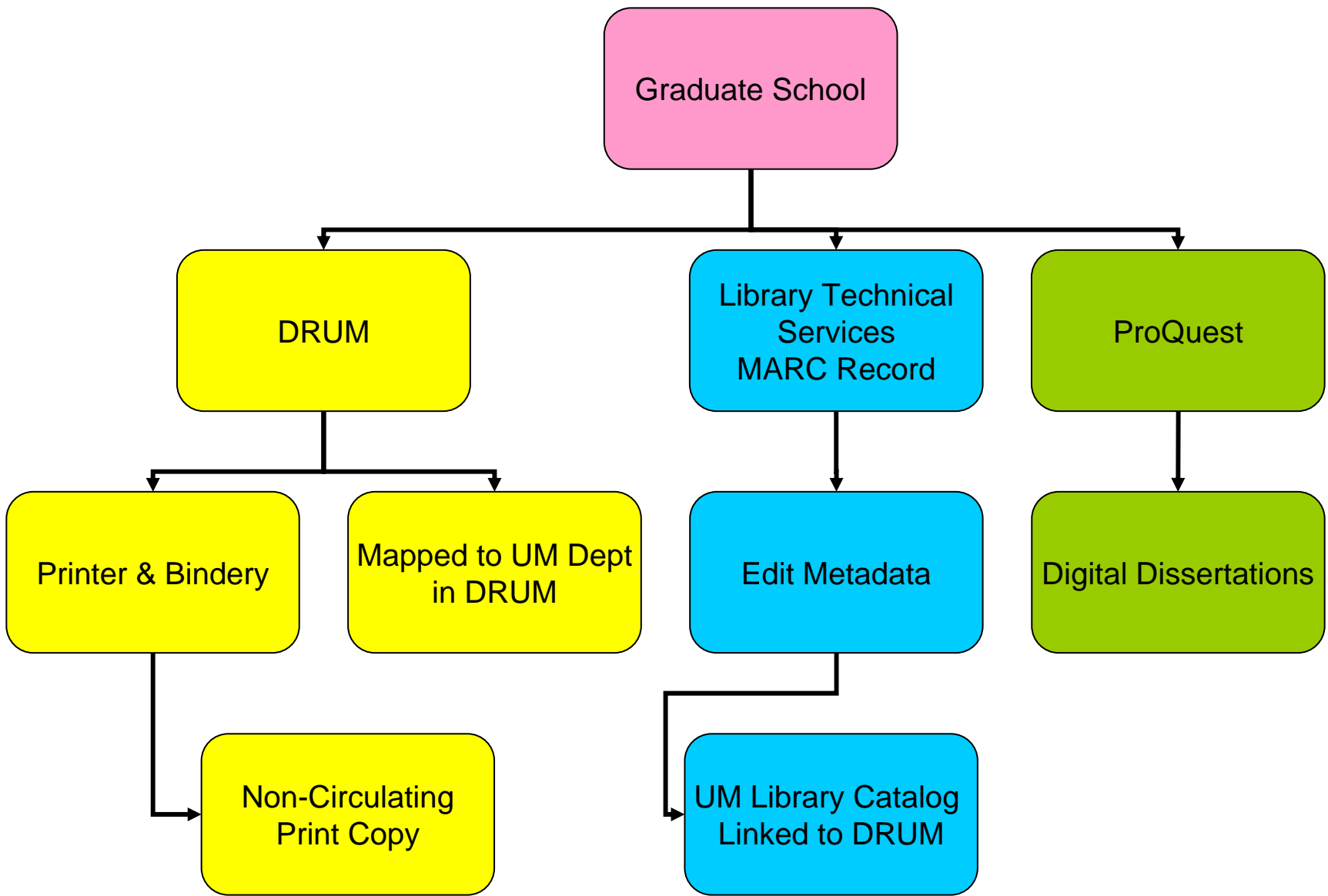
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Statistics](#)[DRUM >](#)[Theses and Dissertations from UM >](#)[UM Theses and Dissertations >](#)**Please use this identifier to cite or link to this item:** <http://hdl.handle.net/1903/6808>**Title:** Leadership and Safety Climate in High-Risk Military Organizations**Authors:** Adamshick, Mark Henry**Advisors:** Gansler, Jacques S**Department/Program:** Public Policy**Type:** Dissertation**Sponsors:** Digital Repository at the University of Maryland  
University of Maryland (College Park, Md.)**Keywords:** Political Science, Public Administration (0617)  
Sociology, Organizational (0703)  
Psychology, Behavioral (0384)  
Leadership, Safety, Climate, Military, Accidents, Behavior**Issue Date:** 25-Apr-2007**Abstract:** Preventable accidents and mishaps continue to degrade the readiness of U.S. military forces. In 2006, the National Safety Council reported an annual rate of over 30 accidental fatalities per 100,000 Department of Defense members and estimated that preventable injuries and illnesses cost the department approximately \$21 billion per year. Reducing these occurrences was the policy mandate of the Secretary of Defense in 2003. He challenged the military service secretaries to reduce their mishap rates by 50 percent over a two-year period ending September 30, 2005. While each of the military services formulated its own compliance strategy, none of them met the reduction goal. In some cases, the mishap rate actually increased. The purpose of this dissertation is to evaluate the Department of the Navy's (DON) policy compliance strategy and to assess its shortcomings and areas for future improvements. The Navy focused their efforts on leadership-intervention best practices designed to el...**URI:** <http://hdl.handle.net/1903/6808>**Appears in Collections:** [Public Policy Theses and Dissertations](#)  
[UM Theses and Dissertations](#)**Files in This Item:**

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umi-umd-4294.pdf		1441Kb	Adobe PDF	549	<a href="#">View/Open</a>

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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?



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# 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



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# DSpace Embargo Options

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







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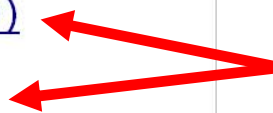
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[Molecular phylogenetic analysis of the hawkmoths \(Lepidoptera: Bombycoidea: Sphingidae\) and the evolution of the sphingid proboscis](#)

[Norie \(Game\)](#)

[Modeling Multi-Band Effects of Hot-Electron Transport in Simulation of Small Silicon Devices by a Deterministic Solution of the Boltzmann Transport Equation Using Spherical Harmonic Expansion](#)

[STRUCTURE, LOCALIZATION AND FUNCTION OF MOUSE MYOSIN XVA IN THE INNER EAR](#)

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## Biology

### Community home page

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- [Biology Theses and Dissertations \(CLOSED\)](#)
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[STRUCTURE, LOCALIZATION AND FUNCTION OF MOUSE MYOSIN XVA IN THE INNER EAR](#)

[Sources of PCBs to Maryland Fish](#)

[Molecular Systematics of Nightjars and Nighthawks \(Caprimulgidae\)](#)

[The effects of low dissolved oxygen on predation interactions between \*Mnemiopsis leidyi\* ctenophores and larval fish in the Chesapeake Bay ecosystem](#)

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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...

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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 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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[Physics Theses and Dissertations](#)

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# Embargo Process

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

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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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	Degrees Awarded	1-year	6-year	Total	Percent
<b>Fall 2006</b>	266	47	25	72	<b>27%</b>
<b>Spring 2007</b>	398	79	47	126	<b>32%</b>
<b>Summer 2007</b>	293	55	26	81	<b>28%</b>
<b>Fall 2007</b>	300	71	33	104	<b>35%</b>
<b>Spring 2008</b>	266	51	40	91	<b>34%</b>
<b>TOTALS</b>	<b>1523</b>	<b>303</b>	<b>171</b>	<b>474</b>	<b>31%</b>



**DRUM**



# Embargoes by College

	Degrees	1-yr	6-yr	Total	Percent
Engineering	389	85	27	112	29%
Ag & Natural Res	61	14	14	28	46%
Architecture	44	1	3	4	9%
Arts & Humanities	214	20	63	83	39%
Behavioral & Soc Sci	179	24	16	40	22%
Chem & Life Sci	163	74	12	86	53%
Comp, Math & Phy Sci	208	41	7	48	23%
Education	162	30	15	45	28%
Journalism	11	0	2	2	18%
Business	27	8	6	14	52%
Public Health	47	4	5	9	19%
Public Policy	14	2	1	3	21%



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# ILL Requests

- Embargoed ETDs available via ILL
- But **NOT** the electronic version
- Developed new process to print and mail documents
- 45 requests since Sept 2007

## **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



# 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
- Have plans in place for special cases (copyrighted works)
- Efficient and capable IT department



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# Questions?

Terry Owen  
DRUM Coordinator  
towen@umd.edu



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