Introduction:

In 2006-2007 the Technology and Resource Services Division continued maturing its strategic agenda points. Among these were:

- Improve and deepen relationships with faculty and GT service units
- Complete planning for the division, including an articulation of its goals, organization, and required resources
- Build digital collections
- Collect significant archival collections for research and education purposes
- Improve e-resource management systems and library materials processes
- Continue to provide excellent service by acquiring and providing access to traditional collections
- Promote scholarly communications, digital, and archival services
- Move library materials assertively into the e-resource realm
- Keep developing the LOCKSS-based MetaArchive Preservation Network and services
- Work more with GT groups in the development and deployment of learning technologies (Sakai) and repositories for GT (including Galileo Knowledge Repository)
- Advance the vision, strategies, and philosophy of the Library’s digital programs

Excellent progress has been made in each of these areas, due to the fine efforts of many of the librarians, archivists, and staff in the division. At year’s end, we made decisions to realign the TRS division taking advantage of both staffing opportunities as well as the recently finished strategic planning to better place us in a position to succeed in the future. Next year’s report will review these changes in detail.

The following highlights some of the accomplishments for 2006-2007. For complete details, see the TRS Division individual departments’ annual reports.

International, National and State-level Consortial Activities and Partnerships

The TRS Division continues to advance the GT library’s leadership at the national and state levels with several ongoing projects that will garner our attention and energies for some time:

- NDIIP Preservation Network Partnership with the Library of Congress and the MetaArchive Consortium members -- Emory University, Georgia Tech, Virginia Tech, Florida State University, Auburn University, and the University of Louisville. This project received another $562,000 in LC NDIIPP funding, supporting the Cooperative into 2010

- Potential partnering with Emory and the UCSD Supercomputer Center in rolling out a MetaArchive-based digital preservation service to cultural institutions and begin integrating the LOCKSS technology with SDSC technologies (NARA grant proposal submitted)

- Participating in the activities of the National Science Foundation’s Office of Cyberinfrastructure, with particular attention to planning efforts to manage and curate digital research data
• Involvement with the LOCKSS Alliance several innovative LOCKSS network projects
• GT Library representation in the Coalition for Networked Information (CNI)
• Membership in the National Digital Library of Theses and Dissertations (NDLTD)
• Galileo initiatives involving Verde (e-resource management system), Metalib, the Galileo Knowledge Repository, GETSM consortial licensing, and designing new community-based Galileo user interfaces

Advancing the Library’s campus leadership role through technology-intensive projects:

• Sakai was chosen as the new GT course management software (called T-Square). A new unit, Educational Technology, was formed. Susan Coleman serves on the Education Technology Program Board. Tyler Walters services on the Education Technology Governing Board and on the search committee for Director, Education Technology

• Serving on the CTO’s (Ron Hutchins) Virtual Learning Strategy Group, which gave way to the Educational Technology Governing Board at the end of 2006

• Shifting Ross Singer’s systems analyst position to support library content and services integration with Sakai

• Provide more complete and comprehensive access to our collection using new technologies such as VUFind, MetaLib, and Verde.

• Maturing a Digital Initiatives agenda with one of the country’s largest institutional repositories - SMARTech, ETDs, sponsored project reports, technical papers, student publications, and other digital collections

• Providing technical production support for the journal, Information Technologies and International Development, co-edited by GT professor Michael Best

• Planning for the new GT undergraduate research journal titled, The Tower. This is an OJS-based application with library technical support provided to the student board. The journal will appear online as an annual during the 2007-2008 year

• Implemented the Umlaut technology (August 2006) – an enhanced OpenURL resolver that pulls in relevant web-based information from outside GT related to the resource being searched

• The Archives beta-tested the Archivists’ Toolkit (AT) and has it partially implemented. The archivists have been providing training and presentations on AT to many other archives and archivists

• Leading MetaLib pilot teams with Galileo. Elizabeth Winter and Ross Singer both are team leaders

• Implemented instant messaging software, wikis and blogs in support of chat and library collaboration
People:

New Employment:

**Acquisitions Services**
- LA III - Cynthia Collins (moved from ICM)

**Archives**
- Records Coordinator II, Mandie Mitchell

**Digital Initiatives**
- Repository and Metadata Specialist (Lib. Assoc. I), Karen Manning (from ICM)

**Systems**

Promotions:
- Isoke Ambidwile (to Library Associate I)
- Marilyn Glasper (to Library Associate I)
- Catherine Jannik (to Librarian II)
- Angie Juenemann (to Library Associate I)
- Ross Singer (to Systems Analyst IV)
- Jody Thompson (to Archivist II)
- Kent Woynowski (to Archivist II)
- Christine de Catanzaro (to Archivist II)

Retirements:
- Jean Hudgins, Head, Information Management and Control, May 2007

Managing Print and Electronic Information Resources

Quote from the 2005-2006 TRS annual report:

“Today our vision for this phase of an e-resource management infrastructure building has been realized with Jeff and Elizabeth’s arrivals. We have spent much of the year arranging training and further preparing people for the even more robust e-resource management paradigm that lies ahead. Jeff Carrico, Nancy Simons, Bonnie Tijerina, and Elizabeth Winter are now working closely together in managing much of the e-resource processes and involving the SFX/Vendor Products work group.” This has been a year of marked progress in honing processes and moving to an e-resource management paradigm.”

Toward these ends, some of the activities in 2006-2007 have included:

- Created an E-Books Resources Group
- Created the “gtjournals” wiki for inter-departmental communication and decision-making
- Made significant progress on processing the backlog of license agreements
- Investigated and chose the Verde system for e-resource management; now implementing as a consortial project via Galileo
- Completed EDI (Electronic Data Interchange) work for Voyager, including book ordering
- Took initial steps to integrate with the Information Control and Management Dept.
Managing Library Collections - Cataloging

At the end of May, long-time Head of ICM, Jean Hudgins, retired after a distinguished career in the GT Library. Afterward, plans commenced for merging ICM and the Acquisitions Services departments. This combined department will support the merging of acquisition and cataloging routines in the digital work environment and lays the groundwork for gains in processing efficiencies by automating work, using vendor services, and cross training staff for multiple assignments. This strategic initiative will be discussed more in the 2007-2008 annual report.

Notable achievements in collections management and cataloging include:

- Purchased 7,975 books at a cost of $635,233.79. This is about 40% higher than in 2005-2006 when the Library purchased 5,702 books at a cost of $508,210.82
- Completing the retrospective conversion of 45,000 electronic Government Printing Office titles this year
- Adding a total of 118,952 items to the catalog:
  - Cataloging 40,447 microforms (35%)
  - Cataloging 39,540 print copy materials (33%)
  - Cataloging 37,284 internet-based electronic resources (31%)

Archival Collections, Digital Collections, and SMARTech Highlights

- Archives acquired 109 collections, including the Murray Mill records and the College of Architecture’s Heffernan House Design Archives. Both are extremely large and significant collections
- SMARTech grew dramatically during 2006/07, adding 4,406 items. Seventy-three new collections and 20 new communities/subcommunities were created. SMARTech continues to be top DSpace repository in size, according to the Directory of Open Access Repositories, http://www.opendoar.org
- SMARTech had 1,407,041 item records viewed and 1,698,792 items downloaded, with 261,464 searches performed. These numbers reflect a growth of over 40% in items viewed, over 345% in items downloaded, and about 520% in searches performed
- One hundred and twenty one (121) OSP reports were added to SMARTech
- Archives/Systems/Digital Initiatives completed work with the Technique and OIT to host the Technique on a Library server and store it via SMARTech
- Digital Initiatives and the Thesis Office added 556 electronic theses and dissertations to SMARTech. Retrospectively converted theses and dissertations totaled 2,347
- The Undergraduate Research Option thesis program got underway. This is a major new initiative between the Library and the office of Undergraduate Research. Fourteen UG theses were submitted in this first year of the program
• Archives is scanning Civil and Environmental Engineering sponsored project reports and is assisting the Alumni Association with their scanning of *The Blueprint*, GT’s student yearbook

• Archives, with the assistance of Systems, has implemented Aardvark, a dark digital repository based on DSpace. It is being used to manage the department’s digital assets and currently holds 641 gigabytes and over 2,000 items records

**Digital Preservation**

The NDIIP-supported MetaArchive Preservation Network project with the Library of Congress neared completion of its 3-year founding project period. The non-profit entity, the Educopia Institute, has been formed and is now operational. The four-member board manages the operations of the MetaArchive Cooperative and is planning future projects currently. The extension with LC/NDIPP was granted for $562,000, funding the Cooperative’s core projects into 2008. The Cooperative also has reached membership status with the original six founding university libraries contributing financially to membership and thus sustaining the Cooperative.

Another grant was submitted to the National Archives, who solicited a proposal from the MetaArchive Cooperative, to create an ongoing digital preservation service to cultural institutions holding archives and records.

**Library Web Site Design**

One of the most important Library responsibilities we have is the effective and efficient design, architecture and navigation of the Library web site. This year, the Library web site was released with a major redesign with many added features.

Web Services Manager, Heather King, developed a new Web Communication Plan to increase library participation in the decision making about the web site’s design and management. A new Web Steering Committee with sub-groups was initiated as part of this plan. This step has increased participation in the web site's management.

**New Department: Technology Development and Research**

In June, the decision was made to form a new department – Technology Research and Development. It will engage technology, information architecture, and application development activities for resource discovery and access, campus – library technology integration, repositories, digital collections, localization / personalization, and other library services, utilizing emerging technologies and engaging in applied research to meet Library goals. More news on the department’s progress will be reported next year.

**Selected High-level Goals for 2007-2008 (in addition to TRS departmental goals):**

• Lead the TRS Division through the strategic realignments underway, which include:
  o Creating the Collection Acquisitions and Management Dept. via its merger
  o Focusing the Scholarly Communication and Digital Services Dept. on promotion, outreach, and services
  o Creating the Technology Development and Research Dept.
  o Encouraging all departments to work in collaborative, synergistic ways
• Complete several searches:
  o Head, Scholarly Communication and Digital Services (*Julie Speer hired*)
  o Head, Technology Research and Development
  o Systems Analyst IV
  o Systems Analyst II (*Bill Anderson hired*)
  o Visual and Digital Materials Archivist
  o Systems Support Specialist I
  o Library Associate I (CAM Dept.)
  o Digital Initiatives Librarian

• Grow the Scholarly Communications program

• Continue developing our sponsored project grants and gifts program

• Increase research, analysis, and surveying of libraries’ digital library programs and of Georgia Tech’s faculty with regard to scholarly communication and digital research activity

• Pursue specific partnerships with GT Educational Technology, DLPE, OIT, GT academic units such as the CoE Dean’s office, CoA, and the libraries of the MetaArchive Cooperative

• Conduct other special projects as opportunities arise, such as the Information Assurance Information Analysis Center with GTRI and CoC

**Professional Activities:**

**Tyler O. Walters, Associate Director for Technology and Resource Services**

**Articles, Papers, Chapters authored:**


**Paper presentations:**


“Collaborating with Campus IT and Faculty to Build the Institutional Repository of Tomorrow,” ACRL National Conference, March 2007


“Organizational Challenges and Approaches to Sustaining Distributed Digital Preservation Networks,” International Conference on the Preservation of Digital Objects, Cornell University, October 2006 (with Robert McDonald)

“Digital Sustainability: Weaving a Tapestry of Interdependency to Advance Digital Programs,” Sustaining Digital Libraries Conference, Emory University (invited speaker), October 2006

Session Chair, Commentator, Poster Sessions:


“Institutional Repositories and the Need for "Value-added" Services: Perspectives from Two Universities,” poster session by Tyler Walters and Eric Lease Morgan, The 2nd International Conference on Open Repositories, January 2007

“Distributed Digital Preservation for NSDL Collections,” poster session, National Science Digital Library Annual Conference, October 2006

“Embracing Emerging Technologies: Combining Tools and People to Create New Services,” Chairperson (Cathy Carpenter, Brian Mathews, Sarah Steiner, speakers). GOLD/Galileo Annual Conference, August 2006

Public grants:

National Archives and Records Administration. “MetaArchive: A Sustainable Digital Preservation Service for Cultural and Historical Records.” Tyler Walters, Project Director, with Emory University and the UC San Diego Supercomputer Center. $700,000. Submitted, June 1, 2007. Awaiting decision

Institute of Museum and Library Services. “Metropolitan Atlanta Collaborative Digitization Initiative.” Jody Thompson and Tyler Walters, Co-Principal Investigators, with Emory University and nine other institutions. $700,000. Submitted, March 1, 2007. Awaiting decision


**Private Gifts/Grants:**


**Grant Reviewing:**

*Louisiana Board of Regents*
Traditional and Undergraduate Enhancements Program, Grant Reviewer, 2007
Topic: High Performance Computing – Louisiana Coastal Restoration Program

*National Science Foundation*
Office of Cyberinfrastructure
Grant Reviewer, Strategic Technologies for Cyberinfrastructure Program, 2007

**Teaching Activities:**


**Committees / Representations / Work Groups / Consortial Project Membership, etc.:**

American Library Association, Office of Accreditation
External Review Panel member, San Jose State University, 2006-2007

Association of College and Research Libraries
Research Committee, 2006-2008

Association of Research Libraries and the National Science Foundation

Coalition for Networked Information (CNI)
Representative, Georgia Tech Library and Information Center, 2002-present

Georgia Institute of Technology
Provost’s Task Force on Defining and Supporting Interdisciplinarity, Internal Research Programs subgroup, 2007-present
Educational Technology Governing Board, 2006-present
GT Journal of Undergraduate Research Faculty Advisory Committee, 2006-present
Director of Educational Technology Search Committee, 2006-2007
Virtual Learning Study Group, 2006

Library of Congress - National Digital Information Infrastructure and Preservation Program
Sustainability for Digital Preservation Strategic Working Group, 2006-present

International Conference on Open Repositories 2007
Chair, DSpace Users Group Program Committee, 2006-2007

National Science Foundation / National Science Digital Library
Sustainability Committee, 2006-present

Awards:

Georgia Institute of Technology Library and Information Center. Winner, ACRL Excellence in Libraries Award, University Library category, 2007. (The Award is “a national tribute to a library and its staff for the outstanding services, programs and leadership they provide to their students, administrators, faculty and community.”) Co-author of the application document

New Initiatives:

Educopia Institute
Founding Board Member and Treasurer, 2006-present
- Addresses sustaining educational cyberinfrastructure advancement through projects and partnerships. Initial funding provided by the Library of Congress NDIIP Program