Institutional Repositories and the Need for "Value-added" Services

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What is SMARTech?

SMARTech, or Scholarly Materials And Research @ Georgia Tech, is a repository for the capture of the intellectual output of the Institute in support of its teaching and research missions. SMARTech connects stockpiles of digital materials currently in existence throughout campus to create a cohesive, useful, sustainable repository available to Georgia Tech and the world.”

- Public opening: August 1, 2004 with 3,000 objects
- DSpace on Sun Solaris / UNIX (moving to Linux)
- 7,000 objects (03/06, doubled in 17 months)
- ca. 5th largest DSpace, 40+ subcommunities, 70+ colls.
- 190,000 object views / 21,000 searches (past 10 months)
SMARTech: Our Approach

- **Why?**
  Because despite users telling us they would like to have an IR, they really didn’t know how they will interact with it

- **Response to this dilemma?**
  We built a “pilot” IR asap to observe users’ interaction with it and gain their feedback re: their needs
SMARTech

So where are we today?

- Interviews / Feedback from Faculty
- Determine “value-added” services to develop for faculty, “interweaving IR into GT “information fabric”
- Marketing and Collecting Plans
- Library organizational maturity to support IR services
- Digital Preservation: MetaArchive Preservation Network ASERL LOCKSS - ETD Initiative
Interviews & Feedback

- Faculty on related committees
  - Academic Technologies Advisory Committee
  - Campus Portal Steering Committee
  - Virtual Learning Strategy Group
  - Tegrity Pilot Project Team

- Faculty contributors

- IT staff in the colleges, schools
SMARTech “The Future”
and value-added developments

Services being developed in SMARTech:

- “My DigitalStuff:” Researcher pages
- Syndication of content to portals, dept. web sites
- Levels of Restricted access
  - Managing proprietary and embargoed information
- Document output for P/T, faculty annual profile, CVs
- Co-submission of sponsored research reports
- More software integration, WebCT, EndNote, UPortal
- Improved searching / federated searching
- Citation analysis

Current projects:
1. College of Architecture
2. School of Civil and Environmental Engineering
College of Architecture Project

The CoA Faculty/Staff Digest has been designed to help our faculty and staff record their activities and to inform others of activities occurring in the college. This system utilizes the college's R & T document for the structure of the digest information.

Here are a few of the benefits of entering your information into our database:

- Your colleagues can view your current activities
- Communications 'point-people' will be automatically notified about your current activities for potential use in the CoA Newsletter, press releases by Institute Communications, and on the College website.
- Through the advanced search interface, digest entries can be filtered and gathered for specific reports.

Recent Digest Entries...

Welcome
Select the type of activity you would like to enter:

Mac users, click here first!!

Teaching Activity
[continuing ed. class taught, teaching award/recognition, student award, authorship of instructional material, invited lecturer/semimare]

Research, Scholarship/ 
Creative Activity
[funded, non-funded, pending proposal, written scholarship, lecture, presentation, award, exhibition, competition, performance, etc.]

Service Activity
[professional activity, outreach, public service, interdisciplinary activity]
Research, Scholarship/Creative Activity
Select which type of activity you would like to enter:

- **Research Activity**
  - [funded, non-funded, pending proposals]

- **Written Work**
  - [written scholarship]

- **Other Creative Activities**
  - [lecture, presentation, award, exhibition, design, competition, performance, musical compositions, etc.]
John D. Leonard

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Research Interests


Bio

Dr. John D. Leonard is Associate Chair of the School of Civil and Environmental Engineering and a tenured Associate Professor of Civil Engineering specializing in transportation and traffic engineering. From March 2002 to July 2004, Dr. Leonard served in various senior management roles within the State Road and Tollway Authority of Georgia. In February 2003, Dr. Leonard was appointed Executive Director (Interim) by Governor Sonny Perdue. During his tenure at the Tollway Authority, Dr. Leonard oversaw daily operations, human resource management, financial management, process management, information systems, and strategic planning.

Through his leadership, SRPA achieved continuous quality improvement and business process engineering concepts into ongoing SRPA programs and processes. Dr. Leonard has published over 30 papers, book chapters, and reports and is a nationally recognized expert in the analysis and design of Intelligent Transportation Systems (ITS) and in the analysis and design of coordinated traffic signal systems. Dr. Leonard's research has focused on constrained traffic operations and related roadway design issues.

Dr. Leonard received a Bachelor of Science in Mathematics and a Doctor of Philosophy in Engineering in 1981, 1983, and 1984, respectively, from the University of California, Irvine.

Degrees

Ph.D., Engineering, University of California at Irvine, 1984.
M.S., Engineering, University of California at Irvine, 1983.
B.S., Engineering, University of California at Irvine, 1981.

Honors

DwightD. Eisenhower Faculty Fellowship, Federal Highway Administration, 1997.
Civil Engineer of the Year, American Association of State Highway and Transportation Officials, 1994.

Books


Reports


Additional publications and papers are available on the author's professional website.
Other Guiding Thoughts...

- Think about the information in the IR and apply to other uses
- Document outputs and academic business processes that use this information:
  - P/T document
  - Annual faculty profile update
  - CVs
- Look for more existing applications that use faculty information
Thoughts on IR Goals:

- Development of IRs is moving into a new phase beyond the initial model of store / organize / access

- We need to integrate IRs into the “information fabric” of our campuses’ academic and business processes

- If so, then we must not develop them in library terms, but rather develop the IR in terms of university goals and faculty needs

- “Growth industry” for IRs may be around identifying and implementing constructive ways to use the scholarly information they contain