Innovation, Academics, and Sustainability: An Interview With Dr. Anderson Smith

“I think this facility is an opportunity to be pioneers with the freshman and sophomore experience at a big university,” explained Dr. Anderson Smith, Georgia Tech’s Senior Vice Provost of Academic Affairs.

Back in 2001, the plan for the G. Wayne Clough Undergraduate Learning Commons was simple - to create a learning center that would be unique to Georgia Tech.

More than 10 years of planning has resulted in the creation of a facility that promises to bring a transformative change to the undergraduate experience.

Although many ideas about the building features and occupants have evolved over time, the end result still holds true to the original intent of the Clough Commons.

“We knew we wanted a learning center,” said Smith. “A place devoted to undergraduates. An academic home, but what does that mean?”

Smith served on the Clough Commons planning committee since the facility’s conception. The committee toured numerous learning centers at universities across the nation researching different models. After returning to Tech and having discussions with students, the committee decided to do something innovative by moving freshman science labs to one common building.

“That means every single student must come into this building their freshman year for at least three hours a week, but hopefully they’ll be here a lot more,” added Smith, who views Clough Commons as much more than just another academic building on campus.

As coordinator of the Clough Commons’ academic features, he has high hopes for what he describes as “a dual demonstration of academic success and sustainability at work.”

“What are those panels on the roof? What’s that big tank under the grass?” These are the types of questions we want students to have,” said Smith.

Clough Commons not only has positive implications for undergraduate education, but also opportunities for innovation in teaching among Tech faculty. The Center for the Enhancement of Teaching and Learning (CETL) also resides in Clough Commons, providing a student-focused education by offering resources, network development, and a suite of programs to continually support faculty, instructors, and teaching assistants.

“I wanted the people that are trying to promote better learning and better teaching in this building,” said Smith. “I believe that will be the innovative part of this building.”
A NOTE FROM THE DEAN

As we begin the academic year, the Library has a new expanded role on campus. Although construction fences continue to surround us, the G. Wayne Clough Undergraduate Learning Commons, the beautifully landscaped Tech Walk, and the Price Gilbert Library’s remodeled service desks are already improving campus life for students, faculty, and staff.

The process of integrating Clough Commons and the Library is ongoing. Over the past several months, Library faculty and staff enthusiastically embraced the challenge of managing the spectacular new building and facilitating collaborative services with academic units residing in Clough and throughout the campus. In addition to managing the physical facility with its classrooms and open spaces, our overarching goal is to enhance undergraduate education at Georgia Tech and connect that effort to the services and collections the Library provides. We are making every effort to ensure that Clough Commons has a transformative impact on the Institute.

At the same time, we remain deeply committed to ensuring that students and faculty have access to library collections and services commensurate with the high quality of the academic programs at Tech. In this issue of the newsletter, you will learn about our new initiatives and catch up on the latest news and ongoing projects. Please take the time to attend one of the many events and tours that will be offered in celebration of the opening of Clough Commons.

Catherine Murray-Rust
Dean and Director of Libraries

LIBRARY LAUNCHES A NEW LIBRARY GRADUATE STUDENT ADVISORY BOARD

The Georgia Tech Library is launching a new initiative to offer additional relevant services and resources for Tech graduate students. Input from the new Library Graduate Student Advisory Board (LGAB) will sharpen the focus of Library efforts to serve the evolving needs of Tech’s graduate student population by communicating the concerns of graduate students to the Library and helping to improve the Library’s communication with graduate students. LGAB will provide feedback and direction on the development and improvement of Library events, services, and resources. LGAB also will assist the Library in identifying Library-related needs of the graduate student community at Tech across all disciplines. It joins the Library Faculty Advisory Board and the Library Student Advisory Board in providing an essential venue for campus input.

Each year, the LGAB will consist of fifteen to twenty members. Membership on the LGAB Board for 2011-2012 has been filled on a volunteer basis, with each member serving a one-year, renewable, term. Volunteers were drawn from the graduate student community at large, and they include Masters and Ph.D. students, teaching assistants working in the Clough Commons, and representatives from Graduate SGA. Concerted efforts will be made to ensure consistent representation from each college, with coverage from many schools/departments, multidisciplinary areas, and locations.

Three meetings are planned for the fall semester, and a similar schedule is planned for the spring. Areas of emphasis for the 2011-2012 Board will include the future development of a Graduate Commons in the Library; the development of new or improved services and activities directed at supporting the teaching, learning, and research endeavors of the Tech graduate community; feedback on available and needed resources; and identification and implementation of methods to increase effective communication with Tech graduate students.

 Comments, suggestions and recommendations for upcoming Boards are welcome. Email the LGAB Steering Committee and the 2011-2012 LGAB Facilitation Team at LGAB@library.gatech.edu.
The Library welcomed Chris Doty to the Faculty Engagement Department July 5, 2011. In his new position, Doty serves as the Subject Liaison to Physics and Material Science & Engineering. He is also a current member of the Library’s Scholarly Communication Collaborative and Research Data Project.

Doty is a recent graduate of the School of Information and Library Science at the University of North Carolina at Chapel Hill. He also holds a Ph.D. in Chemical Engineering from the University of Texas at Austin and a B.S. in Chemical Engineering from the University of Arizona.

Prior to his studies in Information Science, Doty worked as a Research Fellow in the University of Michigan’s Chemical Engineering Department and the University of Liverpool’s School of Biological Sciences and Department of Chemistry, where he investigated biological applications of metal nanoparticles. While a graduate student at UNC, Doty interned with the Chemistry Librarian at Duke University’s Perkins Library and won the 2010 Sara Aull Award from the North Carolina Chapter of the Special Libraries Association for the best student paper on special librarianship.

Larry Hansard has worked at Georgia Tech’s Library for 27 years. Back in 1984, when he first began at Tech, Hansard’s job was to make the library catalog electronically accessible, and in 1994 he was instrumental in making the Library’s catalog available on the web, even before commercial software was available. He has been a key participant in implementing and maintaining programs and software including the integrated library system, digital repository, SFX, and MetaLib.

In his current role as Technology & Systems Librarian, Hansard coordinates strategic objectives for maintaining and enhancing library technologies. He investigates and implements new technologies including commercial and open source software in order to make access to library resources more user-friendly. Hansard is responsible for the technical configuration of resources including the OpenURL link resolver, federated search software, EZProxy software, and Electronic Theses and Dissertation software. He programs using multiple programming languages and develops applications that load records into the library catalog and SMARTech, our digital repository.

Hansard is currently working on two major initiatives that will enhance library services. The first will provide users with a single search box to find both scholarly articles and items in the library catalog. The second will allow patrons to pay any library fines or fees online.

Hansard holds a Master’s in Library and Information Science from Valdosta State University and a Bachelor’s in Computer Information Systems from Georgia State University. When he’s not working he loves to travel. In summer 2011, he vacationed aboard the Trans-Siberian train from Moscow to Beijing.
Michael Nielsen, a leader in the open science movement, will be speaking with faculty at Georgia Tech about open science. According to Nielsen, “Open science is the idea that scientific knowledge of all kinds should be openly shared as early as is practical in the discovery process. The open science movement is working to make scientific research – especially publicly funded research – more transparent, freely accessible and reusable.” Nielsen is an internationally acclaimed scientist who helped pioneer the field of quantum computation and is the author of the book Reinventing Discovery.

Michael Nielsen will be speaking at Tech in the Nanotechnology Building on Monday, October 3rd, from 11:30-1pm. The Library and the School of Physics are sponsoring the lecture and faculty lunch. The lunch will start at 11:30am and the presentation begins at noon. Nielsen also will be speaking that same day from 3-4pm to a more general audience in the Nanotechnology Building.

The Tech Library advocates for Open Access (OA) publishing and research and offers a wide range of OA services, including repository and publishing services that facilitate the rapid, barrier-free dissemination of Tech-produced scholarly materials and research. SMARTech, Tech’s institutional repository and the Library’s digital publishing services help Tech researchers capture, manage, produce, store, and distribute their digital content. http://smartech.gatech.edu | http://library.gatech.edu/scds"

For more information or to RSVP to the lecture and faculty lunch: http://library.gatech.edu/openaccess/

As today’s researchers face multiple challenges with the management and preservation of data, the Georgia Tech Library’s Research Data Project Team continues to investigate new ways to support faculty research.

Led by Susan Parham Tech’s Research Data Librarian, the team implemented a campus-wide survey in late 2010, to discover types of data assets created and held by researchers; how data is managed, stored, shared, and reused; and researchers’ attitudes toward data creation, sharing, and preservation.

Sixty-three faculty and researchers from all seven Tech colleges and multiple research centers responded to the survey. The respondents provided information about a wide cross-section of Tech research.

Follow-up interviews with survey participants are underway, according to Parham.

“Our goal with the interview process is to gather in-depth information about the data curation needs of researchers by understanding the lifecycle of data throughout the research process,” Parham said. “In turn, these interview results will inform the development of services to provide for the long-term access and preservation of Georgia Tech research data.”

Parham urges Tech researchers to continue taking advantage of the services and resources made available through the Library.

Currently, her office provides consultation services to researchers developing data management plans, such as the two-page data plan required with all grant proposals submitted to the National Science Foundation (NSF). In addition, her office provides guidance on data management best practices and data stewardship. Subject librarians help identify data sets in a researcher’s particular field of study. The Library also maintains up-to-date information about additional sponsor or publisher policies regarding research data.

“The inclusion of your research data in widely searched data repositories will increase the visibility of your research, demonstrate its relevance, and encourage further scholarly inquiry,” said Parham. “Research datasets which meet specific criteria may be preserved in SMARTech, Tech Library’s trusted digital repository for providing access and preservation of scholarly content. “

Researchers can also receive help with depositing research data into external, domain-specific repositories such as Dryad, a repository of data underlying peer-reviewed articles in the biosciences. Such repositories are possible solutions for satisfying the sharing and archiving requirements of funding agencies.

Data curation is fast becoming a trending topic at research institutions across the nation. Parham recently attended a NSF workshop hosted by Columbia University on research data lifecycle management.

The workshop brought together researchers, campus information technology (IT) leaders, and library/archive specialists to discuss the topic of data lifecycle management specifically as it relates to computational science and engineering research data.

“It was exciting to connect with colleagues from peer research institutions with similar interests – we’re all working to bridge communities of expertise within our own universities in support of research data stewardship,” Parham said.

The workshop helped to cultivate partnerships between these communities and to foster continued developments in the preservation and sharing of research data.

“Here at Tech, representatives from a number of campus units are working together to improve the quality of data stewardship in support of Georgia Tech’s strategic plan.”

Faculty members who are interested in participating in the development of research data curation services or consultation in developing a data management plan should contact Susan Parham at 404-894-4522.
**GSU COPYRIGHT LAWSUIT**

A lawsuit alleging copyright infringement by Georgia State University (Cambridge University Press et al. v. Patton et al.), initially filed in April 2008, went to trial this May and wrapped up at the beginning of June. Both sides are now awaiting a decision from federal Judge Orinda Evans.

The initial suit alleged wide-scale copyright infringement in GSU’s electronic reserves service and its online course management system. The publishers maintained that they tried to work with GSU to come to an agreement regarding permissions and use but were ignored.

Although copyright is a federal law, the sovereign immunity principle detailed in the 11th Amendment protects GSU from prosecution or monetary damages in federal court. Therefore, the publishers named specific administrators at GSU in their suit and are limited to only injunctive relief. The injunction requested by the plaintiffs would allow permission-free copies of prose works equaling 10% or 1000 words, whichever is less. This injunction would apply to faculty and students and includes a “cumulative effect” limitation (limiting the “total number of excerpts that can be made without permission”) for a work across the entire institution (Defendants’ Responses and Objections to Plaintiffs’ Proposed Findings of Fact and Conclusions of Law). Official court documents from the case can be found at http://dockets.justia.com/docket/georgia/gandce/1:2008cv01425/150651/

Since the lawsuit was originally filed, GSU has changed some policies regarding their e-reserves services, including updating their copyright policy, creating a fair use checklist for professors, and password protection for items posted electronically. Despite these changes, the publishers maintained that systemic copyright infringements continued.

The updated copyright policy at GSU is the same copyright policy used by Georgia Tech. It was formulated by the Board of Regents and adopted by the University System of Georgia in 2009.

However, in addition to the USG copyright policy, Tech Library’s Reserves Services maintains good policies regarding use, fair use, and copyright. Tech’s Reserves provides the following guidelines for placing materials on reserves or electronic reserves:

- Each use of a copyrighted item must be analyzed using the four factors of fair use. Uses not meeting the four factors may require obtaining publisher’s permission.
- Generally, no more than one book chapter, a journal article, a poem, etc. may be taken from any one source and placed on reserves.
- Readings submitted for electronic reserves that are available through the Library’s subscription databases will have a link posted rather than being scanned.
- Items submitted in printed format are scanned and saved as PDF documents for one semester only.
- Articles previously on reserves cannot be placed on reserves for a second semester unless permission from the publisher is obtained—Reserves does provide this service.
- Course packs for which royalties have been paid cannot be placed on reserves unless the proper documentation is submitted with the reserves request. Provided permissions have been secured for each copyrighted article for the current semester, course packs may be placed on reserves—permissions must be included in the bound copy.
- Passwords are provided for each electronic reserves course page to insure that only enrolled students and the instructor for that course have access to the material. The Georgia Tech Electronic Library System verifies current enrollment with Registrar office data during each log in.

More information on Reserves at the Tech Library can be found here: http://www.library.gatech.edu/services/reserves/index.php

**JSTOR AND MORE:**

**ADDITIONS TO THE LIBRARY DATABASES AND E-JOURNALS**

The Library is very pleased to announce the addition of several new databases and electronic journals to its collections, thanks to additional funding provided by the Provost to address long-standing faculty requests. New acquisitions include:

- *The Chronicle of Higher Education*, a key resource for the Georgia Tech community
- *Oxford Dictionary of National Biography*, which includes more than 57,000 biographies of Britain’s historical figures
- *Oxford History of Western Music*, an account of the evolution of Western classical music by musicologist Richard Taruskin
- *Oxford Music Online*, which includes *The Oxford Dictionary of Music*, *Grove Music Online*, and *The Oxford Companion to Music*
- *Philosopher’s Index*, a thorough bibliographic database for articles on philosophy published since 1940 in more than 680 journals
- *Web of Science* enhancements (now includes the Conference Proceedings Citation Index for Science and Social Science & Humanities)

In addition, five new JSTOR Collections provide electronic access to essential journals in several expanding and thriving fields at Georgia Tech, including music, architecture, language and literature, health sciences, and many more subject areas. JSTOR titles may be accessed by searching the JSTOR database or the Library’s eJournals list. The Library is in the process of adding records for each title to the GT Catalog. Newly added JSTOR Collections include:

- Arts & Sciences III – 151 titles with a focus on language and literature. This collection also includes essential journals in music, film studies, folklore, performing arts, religion, art, architecture, and women’s studies.
- Arts & Sciences IV – 112 titles with a focus on business, education, law, psychology, and public policy.
- Arts & Sciences VI – 112 titles with a focus on the social sciences, especially economics and political science as well as education, linguistics, and area studies.
- Arts & Sciences VII – 183 titles with a broad focus in the arts, humanities and social sciences, emphasizing especially history, political science, sociology, art and art history, and language and literature.
- Life Sciences – 161 titles with a focus on field and health sciences, including aquatic science, botany, developmental and cell biology, ecology, paleontology, and zoology.
The self-proclaimed cranky contrarian of Georgia Tech, Dr. Hugh Crawford, has made quite a name for himself amongst students, faculty and staff alike. From his unusual class projects to his insatiable appetite for building things, Crawford continues to push his English classes to take a more creative and innovative approach to research. His most recent project was a Maple tree house constructed by his students. The tree house and supplemental materials were showcased in the Library's Neely Room last semester. Involving the Library in his class projects has become a routine part of Crawford's unorthodox pedagogical methods.

"In my department, there's this whole rhetoric about not doing traditional research, but making something tangible. An archive if you will," said Crawford. "If I have an interesting class, I meet with Charlie (Bennett) and say how can we make this public? How can we make this something that's not just taking place in a classroom, but showcased in some way," he added.

Charlie Bennett, Undergraduate Programming & Engagement Librarian, is a long time friend and former student of Crawford’s. The two began collaborating after one of Crawford’s students wrote an essay on the newly opened Library East Commons. The essay sparked a video project about the library’s newest creation at the time. Last spring, Crawford taught a course called “The Natural History of Wood,” which presented the perfect opportunity to collaborate with the Library once again. After spending a semester focused on understanding trees and wood, sustainable building practices and cultural implications, Crawford’s students were ready to put hammer to nail and do what his classes have become known for - building.

"We wanted to create an artifact at the end of the project to sum up everything we were talking about," said Sarah Alder, a senior from Valdosta. Alder was one of 16 seniors enrolled in Crawford’s course at the time. "We talked about adult private spaces, looked at some adults who have tree houses in Atlanta, analyzed fantasy novels like Harry Potter and Lord of the Rings, she added.

Determined to maintain the sustainable construction of this project, Crawford and his students searched high and low throughout the metro area for abandoned materials. They rescued pallets from behind buildings and searched dumpsters for any materials they could repurpose for the tree house. Crawford managed to rescue the tree itself from the roadside one day while in his pick-up truck. After a brief construction period in his backyard, the tree house was moved to the Neely Room. After a few weeks on display, the tree house was removed from the Neely Room and donated to an Atlanta area childcare group who will auction it off as a fundraiser for their projects.

Over the summer months, he was busy crafting the early stages of a new cross-disciplinary project. “My plan is to figure out a way to build a structure, a real structure, not a demo,” Crawford explained. “This would also be a service project given to the community at large. I’m still in the preliminary planning stages, but it’ll be fun to see how we can involve the Library in this.”

Hugh Crawford was chosen as one of three University System of Georgia faculty members to receive the 2010 Board of Regents’ Award for Excellence in Teaching. His nomination noted him as “gifted in the way he designs his courses to adapt to the students at Georgia Tech.”
The Library's Faculty Engagement Department (FED) has developed several initiatives designed to support and enrich the lives of Georgia Tech faculty and students. FED began the semester’s events on September 1st, with a book signing and talk by Anthony Francis, Ph.D. graduate from Tech. For the remainder of the semester, the Blended Research @ the Library program offers the opportunity for faculty and graduate students from various disciplines to present their research on a common topic. Designed to present multidisciplinary perspectives for everyone, the Blended Research panels for the fall are “Advances in Neuroscience” in September and the “Future of Nuclear Power” in November.

On October 27th, the department will host a Graduate Poster Session Event, “Chemistry Woven through Our Lives: Celebrating the International Year of Chemistry.” This event is an opportunity for graduate students to present how chemistry influences their research. The event will also allow graduate students to gain experience in the process of participating in a juried poster session, and to compete for cash prizes. Monetary awards of $750, $500, and $250 will be given for 1st, 2nd, and 3rd place. All graduate students are encouraged to participate.

For further details on the Blended Research Series and the Graduate Poster session, see the Library’s Blended Research Guide: http://libguides.gatech.edu/blended

Launched last year, the popular Graduate Library User Education (GLUE) program has added a number of new library workshops to the Fall Schedule. Several technical software sessions are being offered:

- InDesign-to create posters
- PowerPoint and Prezi-to enhance professional presentations
- Data visualization products-to create effective charts & graphs.

In order to help graduate students develop professional skills, GLUE is offering sessions focused on getting articles published in professional journals, using citation searching to deepen research, and managing personal online professional identity. In addition, Endnote, LaTeX, Writing a Literature Review and Essential Databases classes will also be offered. Full descriptions and scheduled times of all Library workshops can be found on the library calendar (http://www.library.gatech.edu/calendar/libcalendar.php).