

VIRGINIA TECH UNIVERSITY LIBRARIES

Annual Report
2012 – 2013

“It’s not enough to preserve and provide access to data and information; people want to do things with data and information.”

Margaret Hedstrom
Professor
School of Information, University of Michigan

National Science Foundation Advisory Panel meeting, April 2012

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Note from the Dean

I am quite certain that 2012-13 has been one of the busiest years in the history of the Virginia Tech Libraries. We are constructing brand new learning spaces, integrating the latest digital information and data services, expanding new learning approaches into courses and into service and research projects, and changing the library collection into one where published electronic resources and locally-generated digital collections are ubiquitous. The Libraries also are reaching out internationally to create new partnerships and are introducing new areas of expertise into their ranks to enhance teaching, learning, research, and service at Virginia Tech.

During spring 2013, the Libraries, in partnership with the College of Science, opened Virginia Tech's latest SCALE-UP classroom. The room is a tremendous resource for the College of Science and the Libraries, facilitating new instructional approaches as well as enabling experimentation by the Libraries and our partnering academic programs. Port: Digital Research Commons was opened in Newman during the 2012 fall semester and was used 26,000 times during the year by students who utilize emerging software tools for production and analysis. The Libraries and the Institute for Creativity, Arts, and Technology (ICAT) also announced their partnership to build media studios to support academic activities in Newman in 2014. In addition, after more than a year of study, we have finalized the architectural plans for Newman's 2nd floor renovation – featuring the academic marketplace – with new, technology-rich group and individual learning spaces. First phase construction will occur during Summer 2014. Lastly, the Libraries are bringing back the Newman Café, which will be ready to go for Fall 2013.

The Virginia Tech Libraries are moving into new roles at a time when research libraries overall are shifting toward a model of intellectual partnership and collaboration in the production, use, and sustainability of digital data and information. This year we established the new Center for Digital Research and Scholarship (CDRS), a division of the Libraries that is also a college-level research center engaged in partnering with Virginia Tech researchers to solve digital data, scholarship, technology, and informatics-related challenges. At the same time, the Libraries are cultivating new learning partnerships with the university's First Year Experience program, with Undergraduate Research, and through the Center for Innovation in Learning's innovation grants to faculty. We also have been laying the groundwork for new international initiatives. We will see further development in these areas in 2014.

The core of the Libraries is its collections and they are rapidly moving into the digital realm. At the beginning of the year, the Libraries joined the HathiTrust Digital Library, which preserves over 10 million digitized volumes, including the Google Books collection, and makes publicly available over 6 million public domain volumes. There has been a lot of 'behind the scenes' work, such as moving to an online, demand-driven acquisitions system that allows users to decide which books the library will purchase and delivers them faster than ever before. We also have new consortial agreements in areas like agriculture and government information to ensure these collections' availability to Virginia Tech. The Libraries are also on top of new trends in publishing, including the Open Access model of scholarly publishing. In support of this approach, the Libraries, in partnership with the Office of the Provost and the Office of Research, created the Virginia Tech Open Access Subvention Fund to assist researchers with Open Access publishing fees.

So come see your rapidly growing Virginia Tech libraries – onsite and online – and let us know how we can work with you in your academic endeavors.

Tyler Walters

Dean, University Libraries and Professor
Virginia Tech

Mission, Vision, and Aspirational Qualities

Mission

We enable people to cultivate ideas, develop capacities, and create knowledge. Users do this through the University Libraries' provision of collections, expertise, services, and environments.

Vision

We aspire to transform the way people experience knowledge. We do this by providing new ways to discover, access, create, share, and sustain information. The Libraries aim to advance learning and research by enabling new types of questions to be asked, new forms of scholarship to be produced, and for the exploration of previously unimaginable problems or solutions.

Aspirational Qualities

- Catalyst
- Community
- Curation
- Create
- Knowledge
- Openness

Summary of University Libraries Strategic Plan

The University Libraries engaged in a strategic planning process over Summer 2012. This process involved every department and included conversations with students, faculty, and university partners. The effort strived to align library endeavors with the University's Long Range Plan, as well as to provide vision for library employees on new strategic directions.

Here is a brief summary of the overarching themes:

Learning Spaces

Knowledge, technology, and the social aspects of learning come together at the library. We provide technology-rich inspiring and aesthetically pleasing spaces that cultivate learning, collaboration, and research.

Research & Curation

The Virginia Tech Libraries support all aspects of research augmented by information technologies, at any scale, regardless of domain; we curate the products of all research and scholarship. Exchanging ideas and data helps to advance discoveries and inspire creativity.

Teaching, Learning, & Literacies

We prepare Virginia Tech students to work, live, and be part of a global community. The Libraries enhance teaching and learning by exposing students to practical skills, theory, and experiences resulting in competitive advantages in the job market, greater civic engagement, and cultural enrichment.

Collection Access

The Virginia Tech Libraries are dedicated to making our collections electronically accessible for local and global usage and to enabling open access to locally produced scholarship. We are committed to making the discovery and use of information efficient, quick, and seamless to our users.

Significant Strategic Accomplishments, 2012 - 2013

While the University Libraries continue to deliver effective core services, this year the organization introduced many new initiatives. In order to accommodate the growing changes in user preferences, publishing, pedagogy, and research practices, the University Libraries are working rapidly to adapt and reinvent themselves for emerging demands.

This section highlights many of the libraries' strategic accomplishments from July 2012 – June 2013.

Theme One: Learning Spaces

The University Libraries have seen a tremendous surge in visitors. Upgrades to technology, changes to policies, and recent renovations have led to a more student-centered environment. Over the last year, 1.3 million students, faculty, staff, researchers, and community members visited Newman Library and its branches. This is a 90% increase over the past five years. The libraries are used more today than ever before.

Renovations have been a top priority, and during the 2012-2013 fiscal year, much time was spent on planning and design. The fall semester (2012) involved conducting focus groups and observation studies, as well as working with student leaders to understand needs. Throughout the spring semester (2013), we focused on talking with library stakeholders and drafting a working schema for the departments to consider. The libraries provided presentations to numerous campus commissions and hosted information sessions throughout the year.

It is important to note that this effort is more than just an upgrade of existing areas; it is a reprogramming of library spaces. The intention is to add capabilities that were previously unavailable in an effort to accommodate the growing and changing demands of students and scholars. The University Libraries invested money from the Parents Fund and a private donor on new technologies and collaborative furniture, which helped showcase the direction the libraries are heading. The funds and new additions have also enabled testing and rapid experimentation in terms of learning space design.

The University Libraries worked with the renovations department of University Design & Construction and hired an architectural firm (Lord, Aeck & Sargent) to engage in schematic designs for the second floor. This programmatic review was funded via one-time money from the Provost's Office. The process included several meetings and design exercises with library personnel and campus groups. A critical component was the conceptual formation of the Academic Marketplace, bringing together the Writing Center, CommLab, Innovation Space, and related student service units. The architects also documented facilities and infrastructure conditions, as well as IT and related technology needs. This information is vital as we plan the next phases.

As the University Libraries considered the future strategic renovations of Newman Library, several large-scale tactical projects became necessary. One critical objective was clearing the entire second floor in order to transform it into collaborative space for students, rather than housing less frequently used print volumes. This involved removing, reviewing,

processing, and shifting over 107,000 volumes – a tremendous effort that was handled effectively. 75,000 volumes remain on the floor, and removing them is a top priority as we move forward.

While much of the learning spaces effort this year involved research and planning for the second floor renovation, two new locations were launched:

- PORT: a digital research commons offering software and consulting related to geospatial projects, statistics, visualization, text analysis, and other research tools.
- SCALE-UP Classroom: In partnership with the College of Science, the University Libraries designed a networked classroom that encourages collaborative and social learning. During the evenings and weekends it is open as general workspace for students.

There are also numerous learning environments currently in the works. The past year was spent designing spaces, forming partnerships, and developing protocols for the following locations:

First Floor Corridor: this casual study space hosts 55 students. The University Libraries used Parents Fund monies to upgrade the area with new furnishings and aesthetics. (Estimated completion: September 2013)

Multipurpose Room: this room will be able to host lectures and other campus events, as well as special meetings, events, and digital galleries. (Estimated completion: December 2013)

Study Café: University Libraries contracted with Express Oasis to offer food and beverage services in the library. (Estimated completion: August 2013)

VetMed Library: the University Libraries are working with the College of Veterinary Medicine to reimagine this branch library. The stacks are being reduced and a learning commons environment is under development. (Estimated completion: August 2014)

ICAT Studios: working with the Institute for Creativity, Arts, and Technology (ICAT), the University Libraries are developing three studio spaces to support teaching and learning related to animation, cinema, and sound. (Estimated completion: August 2014)

Other notes:

- A library fee was endorsed by the Board of Visitors in April 2013. This will aid the development of additional learning spaces and services.
- The University Libraries partnered with the Computer-Integrated Learning Spaces (CILS) to transfer the management of public computers in Newman Library. This provides greater efficiency and a more streamlined experience for students.
- As an attempt to position the library as a cultural, intellectual, and social hub on campus, the University Library hosted or co-hosted over fifty events, lectures, or exhibits. This is a huge increase from previous years. See Appendix 1 for a full list of library events.

Theme Two: Research & Curation

One of the most significant strategic advancements for the library was the establishment of the Center for Digital Research and Scholarship (CDRS). Designed as a platform for digital collaborations with Virginia Tech researchers, the goals of the college-level research center are to advance research in information science and to offer library-managed tools and services to address a variety of digital data and scholarship needs.

The center offers faculty and students programs, services, training, and consulting in digital curation and eResearch to support data-intensive research. The center balances support to address both the lifecycle of digital research and scholarship and the disciplinary/domain contexts in which materials are produced.

The center is comprised of four programmatic areas:

- Technology development: partnerships on projects that apply information science principles (data collection, organization, management, preservation, dissemination, integration, use/reuse, and visualization) to solve academic problems.
- Digital services: to address researchers' information/data management and publishing needs, including a digital research data and scholarship repository, web-based publishing platforms, and an Open Access publishing subvention fund.
- Consulting: on author/creator rights, copyright, creating data management plans, data management implementation, and digital curation processes; training on resources, tools, and services that support the lifecycle of digital datasets and scholarship.
- Outreach: to raise awareness of open movements and the immediate and long-term benefits of sharing and preserving digital research and scholarship, including ways the academy can begin to transform research and scholarly environments.

In addition to establishing the Center for Digital Research and Scholarship, the Libraries' efforts this year to augment digital research involved developing a content cyberinfrastructure framework. Three library departments worked closely to create a Fedora-based scalable and sustainable repository agenda that aligns and maximizes the Libraries' technology resource investments and reinforces essential data curation infrastructures. (note: Fedora is a repository system suitable for complex digital objects such as scientific datasets).

As further demonstration of our commitment to Fedora and to open-source and community-driven software architecture and tools, we joined the Fedora Futures Project and became a Hydra partner institution. (note: Hydra is a widely adopted Fedora repository interface framework). Our formal and active involvement in these repository technology communities guarantees cutting-edge curation infrastructures for Virginia Tech researchers. The libraries also partnered with the Office of the Vice President for Information Technology to join the Digital Preservation Network (DPN) as a member institution, an important partnership and exploration of an emerging distributed preservation strategy for federated digital repositories.

The Libraries' expanded support for interdisciplinary research involved a collaboration with the Office of the Vice President for Information Technology, Office of the Senior Vice President and Provost, and Office of the Vice President for Research to join the DuraSpace VIVO Incubator Project as a founding institution. The four partners initiated an exploratory VIVO pilot project. (note: VIVO is a semantic-web based researcher networking platform that creates public researcher profiles from verified campus and external data sources).

The Libraries also engaged in inter-institutional collaborations with Purdue University Libraries, University of North Texas Libraries, and the Educopia Institute to initiate the national Library Publishing Coalition (LPC) project. The goals of the project are to design a coalition that enables the library publishing community to share best practices for publishing, conduct new research, stay abreast of trends, and connect with others in the field.

A position was also developed in partnership with the College of Engineering to support engineering data curation and informatics projects. Such partnerships enable us to fully embed library expertise into the research enterprise, augmenting digital research practices and processes and enhancing the visibility and discoverability of Virginia Tech's scholarship and innovations.

The Libraries expanded the suite of digital services to further augment digital research. Services include:

- Open publishing services that allow researchers to produce and disseminate articles and conference proceedings as widely as possible. We began supporting the first Open Journal Systems (OJS)-based electronic journal, *Journal of Research in Music Performance*. (note: OJS is a web-based journal publishing platform with embedded editorial workflows).
- Obtaining and maintaining Digital Object Identifiers (DOIs) for items archived in VTechWorks based on the Libraries' license with the California Digital Library's EZID Service.

The Libraries expanded digital curation consulting support through:

- Data Science and Data Management Initiatives: The Libraries partnered with the Graduate School, Office of the Vice President for Research, and the University of Virginia's Data Management Consulting Group to offer graduate students a two-day intensive data management boot camp. An outgrowth of the boot camp was the py4grads consulting program that offers graduate students assistance with scripting and programming for handling and manipulating data. The Libraries also recently established a Data Literacy Advisory Team to help shape the development of a comprehensive data literacy program for students and faculty.
- Digital Curation Consulting: The Libraries offered important digital curation and eResearch sessions throughout the year and via the Faculty Development Institute, including 14 instructional sessions on open access and copyright, digital humanities,

developing data management plans for research grants, implementing data management plans, and the university's VTechWorks institutional repository.

- Data Management Plan Support: In addition to the data management plan FDI sessions, the Libraries responded to eleven requests for in-depth data management plan assistance. The Libraries also configured Shibboleth authentication and the overall interface for a Virginia Tech DMPTool. (note: DMPTool is a web-based tool hosted by the California Digital Library that helps researchers generate data management plans that comply with specific funding agency requirements). The VT DMPTool launched in August 2012.

The Libraries made advancements related to open and public access:

- In partnership with the Graduate School, the Libraries hosted an Open Access Week event October 15-19, which included panel discussions, workshops, knowledge drives, and a keynote lecture by Cameron Neylon (Public Library of Science – PLoS).
- Subvention Fund: the Libraries, in partnership with the Office of the Senior Vice President and Provost and the Office of the Vice President for Research, launched an open access subvention fund to subsidize article processing fees for scholarly peer-reviewed articles accepted for publication in open access or hybrid OA journals. In the first year, over 50 faculty and graduate students used the funds to publish and subsidize the article processing fees for over 20 peer-reviewed open access articles.
- With the support of the Office of the Senior Vice President and Provost and the Office of the Vice President for Research, the Libraries also took the lead on behalf of the university in responding to the Association of Public and Land Grant Universities' (APLU) request for comment on the White House Office of Science and Technology Policy (OSTP) public access directive, supporting the SHARE proposal (SHared Access Research Ecosystem).
- Dean Tyler Walters co-chaired the coordinating committee of the National Digital Stewardship Alliance (NDSA), an organization of the Library of Congress. Dean Walters also was one of several co-authors who produced the *National Agenda for Digital Stewardship, 2014, which was produced this year by the NDSA.*

Dean Walters was asked to co-chair the AAU / APLU / ARL-sponsored SHARE Proposal Steering Group, which will submit a plan to the White House OSTP for preserving and providing access to the research publications and data sponsored by the grants and contracts of major United States federal agencies through the universities' digital repository and preservation infrastructures.

To meet our objective to build the libraries' capacity to support faculty and students engaging in eResearch, the libraries launched an eResearch Hub. Throughout the year, members of the hub participated in individual or team projects to gain a deeper understanding of eResearch issues and to explore emerging roles and new initiatives. Outcomes include the development of a series of informational sessions on digital research technologies and issues aimed at creating eResearch learning opportunities for the Libraries. Among the session

topics were data visualization, data management, digital humanities, eScience, scripting and programming, and Application Programming Interfaces (APIs). Hub teams also explored developing outreach and data management resources and internal digital archiving workflows.

Six other noteworthy research achievements:

- Among the Libraries' technology development innovations were search and discovery layer developments for CDRS collections, VTechWorks enhancements to support closed caption, inline video playing and video playback on mobile devices, and new information modules for the FishTraits database, a project exploring expansion of VTechWorks as an access and storage solution for live data management.
- In partnership with the College of Liberal Arts and Human Sciences, we hosted a National Endowment for the Humanities Digging into Data virtual brown bag series. The libraries also evaluated collections for the Center for Applied Technologies in the Humanities (CATH) for sustainability planning purposes and partnered with CATH to bring Dr. Andrew Stauffer, Director of NINES (Networked Infrastructure for 19th Century eScholarship) to Virginia Tech for campus discussions and a public lecture.
- The libraries contributed to early discussions and requirements gathering for Electronic Faculty Activity Reporting System product evaluations with the Office of the Senior Vice President and Provost and the Office of the Vice President for Research.
- The libraries partnered with the University of Virginia's Data Management Consulting Group to offer a research data management virtual brown bag series in the Torgersen telepresence room. The OSTP directive and altmetrics for research data were among the topics discussed.
- In spring 2013, the libraries acquired equipment and developed service plans for an event video capture service involving recording and live streaming campus scholarly lectures and events and archiving those videos and supplemental materials in VTechWorks.
- Capacity building efforts include five new positions to support informatics collaborations and campus-wide digital curation and data services: Data Science and Informatics Librarian, Research Environments Librarian, eResearch Projects Coordinator, and Software Engineer (2). Two library faculty were also selected to participate in the Office of the Vice President for Research Proposal Development Institute and five library faculty were awarded mentoring grants through the Office of the Senior Vice President and Provost.

Theme Three: Teaching, Learning, & Literacies

The University Libraries have a long history in providing instructional support. Last year, over 10,000 reference questions were answered and librarians taught 670 instructional sessions and hosted over 1,000 tours. The Libraries have become deeply embedded within the First-

Year Experience (FYE) program and taught 34 FYE sessions. Librarians are also deeply involved with composition courses and reached over 120 different course sessions. While teaching students is a driving mission of the Libraries, librarians also provided professional development for the Virginia Tech faculty by leading 18 FDI sessions.

While the demand continues for reference and instruction sessions, the University Libraries also recognize that in a quickly changing information environment, the needs and preferences of our students change as well. To meet some of these new and arising demands, the University Libraries created a Learning Hub that focused on curriculum visualization. The intention of this working group was to understand how different disciplines use information and related skills, practices, and literacies throughout the course of a student's entire experience in a declared major. This dataset will enable the library to become more attuned to the lifecycle of student assignments and to better target instructional efforts to this geography of learning encounters.

The Libraries also advanced the teaching and learning agenda by partnering with Learning Technologies, Undergraduate Education, and the Graduate School to relaunch the Center for Innovation and Learning. Much of the initial year was spent designing the "innovation grant" program that funded five faculty members practicing experimental pedagogy. The CIL also launched the Distinguished Innovator in Residence Program, bringing innovative thinkers to campus for several days in order to participate in classes and meet various groups. This group has included: Jon Udell (Microsoft), Cameron Neylon (PLoS), and Janet Murray (Georgia Tech).

There are two other significant areas regarding the strategic advancement of learning efforts:

- As online learning plays an increasingly significant role in our students' academic experience – for both traditional students and fully online students – the University Libraries are filling an immediate need for increased demand for proctoring services. The library has become a major provider for proctoring, supporting over 2,000 sessions last year. As more on-campus students take online classes, this demand will only increase.
- Over the course of the spring semester (2013), the University Libraries began planning for a robust online learning platform. After working with an IT consultant to develop ideas, we will implement this platform across several phases. Initially, the platform will be a database of open educational resources to support information literacy instruction. Librarians and instructional faculty will use these tutorials to help students with research needs, and students can use them independently for self-guided learning. Ultimately, this platform will include assessment and user certification as well, and the program will allow for more active learning, particularly using the SCALE-UP classroom or "flipped" teaching methodology.

Theme Four: Collection Access

This has been a transformative year for library collections. The University Libraries continue to purchase fewer print volumes and have instituted e-preferred practices. Over the last year, online subscriptions continued to see increased use with over 2,483,295 items downloaded. This is up dramatically from 1.8 million recorded two years ago. An effort was made this year

to increase STEM holdings which saw the addition of backfile packages including: Biological Abstracts, Journal of the American Medical Association, Optical Society of America, Wiley Veterinary Medicine journals, and ASTM Standards & Engineering Digital Library. The Libraries also added Mango, an online language learning system featuring instructional content in 49 languages. A full list of resources added is available in Appendix 2.

Renovations on the first and second floors of Newman Library, as well as at the VetMed branch, require the shrinking of print collections. This has accelerated the shift to digital platforms, but requires additional offsite storage as well as enormous processing efforts. Over the past year, 125,425 volumes were removed. This included 8,700 linear feet of print materials, 20 cabinets of microfilm, and 60% of the atlases and maps collection.

One of the most substantial evolutions is a service shift toward on-demand materials. This year the Libraries established demand-driven acquisitions, enabling access to a wider scope of materials; the Libraries only purchase items that are used. Another new initiative was the implementation of on-demand ordering for specialty items, including articles, books, news clips, and technical specifications. Along with improvements to desktop delivery and on-campus delivery, students and faculty now have more ways to access library information than ever before.

In addition to new practices of purchasing or acquiring information, the Libraries advanced their own digitalization efforts. Special Collections outfitted a digitizing studio and launched several pilot projects. 112,372 pages of content were scanned, including seven complete civil war diaries. The objective this year was to establish these production workflows, paving the way for increased creation of digitized content.

This year, the libraries archived 3,763 items in the VTechWorks repository, and during this time over 1,140,000 items in the repository were accessed and downloaded. Noteworthy achievements include the integration of over 1,000 Computer Science technical reports and 1,500 electronic theses, dissertations, and journal articles into VTechWorks.

There are three other significant areas to note regarding the strategic advancement of collections:

- In October 2012, the university transferred Records Management Services to the University Libraries. Because of the nature of materials and the close alliance between records managers and archivists, the unit was placed within Special Collections. In spring 2013, the internal audit office conducted the first ever audit of the unit. Their suggestions are shaping the future policies and procedures of Records Management, which will be focusing more on campus outreach and education in the coming year.
- The Libraries began offering textbook borrowing service on reserve. This service led to over 40,000 loans across two semesters, indicating an area of high demand and student interest
- As the Libraries prepare for new directions regarding collections and information access, a strategic plan hub was formed. This cross-departmental group began exploring and planning new services and practices regarding collections, and propelled collaboration for new thinking about how collections are used, provided, and defined.

Diversity-Related Accomplishments

Diversity chairs Ross Edmonds and Jennifer Nardine collaborated with Dean Tyler Walters to decommission the standing volunteer-based library diversity committee. The chairs wrote and instituted a new diversity charter, and assembled a diversity council consisting of members assigned to service by the library departments. The diversity chairs also proposed, wrote up, and had approved a new, library-wide diversity award, the first recipient of which will be selected in 2013-14. The diversity council, with the support of Dean Walters, negotiated an upcoming in-house presentation by consultant Jamie Washington, who regularly presents at DDI. This training will ensure the Diversity Council is operating with a common vocabulary and focus as it grows in future semesters.

In addition to the Diversity Council, the University Libraries recognized a service need for a diverse set of students, and created a position focused on that unique population. The Assistant Director for International Outreach Initiatives works to connect international students with library services, create programming opportunities and exhibits for international students, and address other related opportunities. Due to the Assistant Director's skill set, the University Libraries are also incorporating multicultural sensitivity into the larger instructional program.

Summary of Personnel Updates

Faculty

Over the past year, the University Libraries hired seven A/P faculty positions; five are continued appointment track. The filled positions have the following diversity:

6 women (of which 1 Black, 1 Asian)

Staff

The Libraries also hired five staff positions. The filled positions have the following diversity:

3 men (of which 1 Asian)

2 women

Retirements

The Libraries saw four A/P faculty and nine staff members retire in June 2013.

AdQI and WEAVE

Please see attached supplemental file:

VT_Libraries_Annual_Report_2013_WEAVE.pdf

University Plan: Crosswalk from University Libraries

Please see attached supplemental file:

VT_Libraries_Annual_Report_2013_Crosswalk.xlsx

Goals and Outcomes: 2013 – 2014

1. Learning Spaces: Student Collaboration Capabilities

<i>Goal:</i>	Provide enhanced spaces for group work and collaboration
<i>Outcome:</i>	Convert schematic design of Group Commons into construction drawings and implement Phase One of Newman Library Second Floor renovation
<i>Measure:</i>	Movement of the project through the facilities / renovation bid/RFP process
<i>Target:</i>	Bid/RFP goes out in March 2014 and construction begins May 2014
<i>Documentation:</i>	Construction drawings and awarded contract

2. Research & Curation: Data Services

<i>Goal:</i>	Advancing research data consulting, services, and initiatives
<i>Outcome:</i>	Reach established project milestones for data audit and VIVO pilot. Explore campus data services partnerships. Further develop and refine research data services, resources, and underlying technologies.
<i>Measure:</i>	Audit responses inform service and technology development; increased awareness of the VTechWorks repository and research data services and consulting; discussions with potential campus partners underway
<i>Target:</i>	Audit responses influence Fedora/Hydra repository technology research and development; 20 new VTechWorks users; 30 data management plan consultations; three new eResearch topic guides; partnership discussions influence service development
<i>Documentation:</i>	CDRS and Libraries websites, VIVO profiles, audit report, web guides, VTechWorks repository

3. Teaching, Learning, and Literacies: Prototyping New Literacies & Pedagogies

Goal: Consult, support, facilitate, and advocate for the implementation of new literacies and learning experiences

Outcome: Encourage and experiment new learning practices and environments with an emphasis on visual literacy, service learning, social learning / scale-up model, and tangible scholarship (artifact creation or interactive exhibits)

Measure: Number of courses participating and qualitative responses from students and faculty participants

Target: 20 courses will participate over the next year; responses will indicate positive learning encounters

Documentation: Visual literacy program report; learning hub annual report on pedagogical experiments; bi-weekly meeting updates with learning environments team; qualitative responses from instructors and students

4. Collections Access: Print Collection Management

Goal: To transition print and other low-use analog materials to an off-campus storage facility

Outcome: Establish new storage location and the related retrieval practices, protocols, and workflows

Measure: The amount of warehouse space filled with library materials

Target: 75% of the warehouse will be filled with library materials within the next twelve months.

Documentation: Lease contract for the warehouse; planning documentation for moving library materials; updated bibliographic records in the catalog; retrieval process for requested materials

Appendix 1: List of Library Events, 2012 - 2013

1. Fall, Game Night
2. Fall, Scavenger Hunt
3. Fall, Gobblerfest
4. Fall, Vintage Films (multiple sessions)
5. Fall, Food Drive
6. Fall, Voter Registration
7. Fall and Spring, Research On The Edge Lecture Series (multiple sessions)
8. Fall, Tea Exchange
9. Fall, Banned Books Week Events and Exhibit
10. Fall, OA Week Events (multiple sessions)
11. Fall, Hispanic Music Performance
12. Fall, Hispanic Art Exhibit
13. Fall, Hispanic GANAS
14. Fall, Hispanic Faculty/Student Panel Discussion
15. Fall, Native American Book Display
16. Fall, Lincoln Exhibit
17. Fall and Spring, Distinguished Innovator in Residence Program and Keynote
18. Fall and Spring, Visible Scholarship Program (multiple sessions)
19. Fall and Spring, VT Paws (multiple sessions)
20. Fall and Spring, Career Services Resume Event
21. Fall and Spring, Exam Week Outreach (grilled cheese)
22. Fall and Spring, Citizen Science Challenge
23. Fall and Spring, Research On The Edge Lecture Series (multiple sessions)
24. Spring, Engineering Week Exhibit
25. Spring, Poetry Day Reading
26. Spring, Fakes, reading by Matthew Volmer
27. Spring, First Year Experience Poster Session Exhibit
28. Spring, Andrew Stauffer, Digital Humanities Exhibit
29. Spring, Black History Month: Exhibit, Speakers, Films, Read-a-thon
30. Spring Jewish Student Association Film
31. Spring, Appalache
32. Spring, Health Booth
33. Spring Adult literacy Volunteers (ESOL sessions held weekly)
34. Spring, Filipino Student Group - Language Competition
35. Spring, Students Helping Haiti Event
36. Spring, LGBTQA Display
37. Spring, Graduate Student Week Event
38. Spring, ASPECT reading sessions
39. Spring, 4/16 Exhibit
40. Spring, Edible Book Contest
41. Spring, Montgomery County Museum Event
42. Spring, Common Book Unveiling & Reception
43. Spring, Architectural Display - The Upper [Cadet] Quad Renderings
44. Spring, Cadet Museum Project
45. Spring, International Street Fair
46. Spring, VT Authors Reception
47. Spring, Data Management Boot Camp for Graduate Students
48. Spring, Veterans Studies Conference Displays and Film

Appendix 2: List of New Library Resources, 2012-2013

- Apidologie
- ASTM Standards and Engineering Digital Library
- Biological Abstracts backfile 1926-
- Fusion Science and Technology
- Gale Nineteenth Century Collections Online Modules 5-8
- Journal for Specialists in Group Work
- Journal of African American History
- Journal of GLBT Family Studies
- Journal of Global Scholars of Marketing Science
- Journal of Planning History
- Journal of the American Medical Association backfile
- JSTOR Arts & Sciences IX
- JSTOR Arts & Sciences X
- Lake and Reservoir Management
- Mango Languages
- Mary Ann Liebert journals
- Mergent D&B Country Risk Reports
- Mergent Events Data
- Mergent Intellect
- Nuclear Science and Engineering
- Optical Society of America Archives
- Oxford Journals Humanities Archive
- Philosophy in the Contemporary World
- Royal Society of Chemistry Ebook package
- Springer Protocols
- Sage Humanities Social Sciences Journal Archive
- Taylor & Francis Journal Archives
(Behavioral Sciences, Chemistry, Education, Engineering, Computing, & Technology,
Environment & Agriculture, Mathematics & Statistics)
- Wharton Datasets, including CRSP, Eventus, I/B/E/S Database, Computstat
Execucomp, and Institutional Shareholders Services
- Wiley Veterinary Medicine journals backfile