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NOTE FROM THE DEAN



Many faculty, staff, and students have noticed changes in the Libraries this past year as we continue to advance rapidly toward reaching our strategic goals by 2018. The conversion of shelving spaces into learner-optimized spaces has begun in earnest. Based on our architectural plan created with Lord, Aeck, and Sargent, we initiated the 2nd floor renovations of Newman Library. At nearly 30,000 square feet, this floor will become a major high tech "hands on / minds on" location and service point for VT students. Other learning-centered renovations are underway, including the Newman Lobby, two group commons areas, ICAT multimedia studios, and the Veterinary Medicine Library. This year also saw the completion of our Multipurpose room and the first full year of the SCALE-UP classroom in operation. Our new café partner – EspressOasis – also finished its first year in Newman and with much success. The university's leasing of a 15,000 square foot storage warehouse enables all this work. Access to print materials has also improved with 24-hour delivery to academic departments from all Libraries locations in Blacksburg.

The Libraries experienced amazing development in Digital Research support. We are becoming a leading base for research consulting, technology, and services. One example is the Open Access Subvention Fund, which grew from a pilot project into a program. Almost 100 articles were supported by the Fund during the pilot. The Libraries are also managing new systems for VT's faculty-related data and Internet-based faculty profiles through a partnership with the Office of Research, the Vice President for Information Technology's Office, and the Provost's Office. In addition, we have joined with many other leading universities to build new digital repository infrastructures through the Hydra and Fedora projects as well as the researcher profile system VIVO. Other examples include cutting edge projects with the College of Engineering such as the Signature Engineering Building vibration analysis research, in which the Libraries are building an information system for research data leveraging Cloud services. There is also the new position of Data and Informatics Consultant, which supports College of Engineering researchers with data analytics, research data management, and technology tools and platforms.

The Libraries' collections continue to grow at a rapid pace and are being managed and delivered in new ways. This past year saw the Libraries initiating a demand-driven purchasing model for STEM books. Users choose the books they want and then they are delivered electronically online to them. The approach allows us to provide a wider array of book titles at less cost and with faster access. We also made important progress with scholarly journals as we continue buying many electronic backfile packages to ensure that researchers can find the older articles they need (which actually aren't very old, ca. year 2000 and older). University usage and downloading of articles continues to increase at nearly 10% a year, e-book usage is on the rise, and a quickly increasing number of users are searching for resources through the Libraries' Summon search engine. Overall, the Libraries' increasingly smarter approach to managing and delivering licensed and purchased scholarly content is paying off for the university community.

Toward the end of the year, the Libraries seized an opportunity to restructure itself. We announced the new organizational structure on May 27 after months of planning, reviewing, and vetting the approach. The result is three core divisions of the Libraries: Collections and Technical Services, Learning, and Research and Informatics. Also, a new unit, University Records and Information Governance, will address policy and practice-based issues regarding university electronic records. Other areas that are continuing, yet quickly evolving includes Special Collections and Information Technology Services. These shifts move the Libraries toward a structure that: 1) advances our strategic goals, 2) recaptures previously allocated resources, and 3) makes important connections between conventional library work and the new service trends that are on the rise.

We also re-launched the Libraries' development program. Early indicators show we are resonating with our supporters. Giving to the Libraries increased in 2013-14 by 15% over the previous year. We thank our donors for all their critical support during a time of great transformation for libraries.

It has been a year of incredible growth and development in the Libraries. We encourage our users to continue to give us feedback and work closely with us as we continue on the path of updating the Libraries for teaching, learning, research, and service in an environment that is increasingly global, inter-institutional, digital, and data-driven.

Tyler Walters
Dean, University Libraries and Professor



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, sustain, and share 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 previously unimaginable problems or solutions to be explored.

ASPIRATIONAL QUALITIES

Openness: We design pathways to information, access, ideas, and discovery.

Curation: We collaborate with people in producing, disseminating, preserving, and using information and data.

Creation: We enable people to design, make, and express their ideas.

Community: We bring people, ideas, and resources together. **Catalyst**: We ignite people's curiosity and sense of possibility.

Knowledge: We stimulate creative, cultural, social, and intellectual endeavors.



SUMMARY OF UNIVERSITY LIBRARIES STRATEGIC PLAN

In the summer of 2012, the University Libraries engaged in a strategic planning process for 2012-2018. This 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. We continue to use these themes to guide our efforts as we support the university.

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 technologyrich inspiring and aesthetically pleasing spaces that cultivate learning, collaboration, and research.

RESEARCH AND 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, AND 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.

COLLECTIONS 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.

This annual report describes the University Libraries' accomplishments from 2013-2014 as they relate to our strategic themes and goals. The report also includes our Administrative Quality and Improvement (AdQI) efforts. In addition, the report identifies the goals we have set for 2014-2015 as we continue to support our strategic plan as well as the university's long range plan.



The University Libraries continue to see increasing numbers of visitors and users. Despite removing our gate counters for a large part of the year due to renovation work, we still logged over 1,250,390 visitors. Students are heavily utilizing renovated areas and new furniture, both of which facilitate collaborative work and better meet the needs of today's students.

Over the 2013-2014 year, we completed several renovation projects, engaged in feedback-gathering and assessment of learning space with student and faculty focus groups, planned new renovations, and engaged in continuing conversations across campus regarding the condition of Newman Library's infrastructure.

The following renovation projects were completed this year:

- The Multipurpose Room in Newman Library, a gathering space for academic, social, artistic, and cultural programming
- Upgrades to study space on the first floor new carpet, furniture providing additional electrical outlets, and digital information screens
- · Technology upgrades to the SCALE-UP Classroom
- Upgrades to the chilled water system to improve air conditioning on the first floor
- Furniture additions to the second floor to improve study space, increase the number of outlets, and provide dynamic, flexible workspace

The following renovation projects were planned and/or started this year:

- Institute for Creativity, Arts, and Technology teaching studios on the first floor of Newman Library (under construction July 2014)
- Veterinary Medicine Library renovation (under construction May 2014)
- Lobby and Commons on the second floor of Newman Library (under construction July 2014)

The reprogramming of these spaces has truly been a team effort, involving our Learning and Outreach, Access Services, Collections and Technical Services, and Facilities units. Together, these groups evaluated collections, developed request-based delivery plans for items being moved to storage, weeded and consolidated collections, and cleared spaces. Between 2012 and 2014, over 200,000 volumes were removed from Newman Library to better utilize space and prepare for renovations.

In Fiscal Year 2014 alone, we removed 65,000 volumes. This project included moving some items to off-site storage, developing request systems for those items, and securing electronic copies of materials in lieu of physical collections.

In preparation for the Institute for Creativity, Arts, and Technology teaching studios on the first floor, we conducted a large-scale evaluation and removal project for our microform collection. The project resulted in the following outcomes:

- Withdrawing over 400,000 microform pieces from fiscal years 2012 to 2014; over half of those were processed in 2014
- A current collection of 55,000 film reels and 1 million fiches
- The microform collection was reduced by one-third, from 2,786 to 1,800 square feet
- Film reels were inventoried, barcoded, and added to the Addison online catalog holdings

We are continuing to consult members of the Virginia Tech community regarding the reprogramming of our learning spaces, including the following programs:

- Peer Roving Assistants
 - These students gather statistics and photos to help inform service and space planning.
- · Library Student Advisory Board
 - These students are consulted regarding library services, spaces, and resources. The board continues to meet bi-weekly.
- · Dean's Advisory Council
 - These faculty members provide insight related to long-term planning for library services.



THEME TWO: Research and Curation

Our Research and Informatics division continues to offer programs, services, training, and consulting in digital curation and to support data-intensive research. Much in the same way libraries have preserved and provided access to books, today's researchers require digital libraries that will preserve, manage, and provide access to infinitely large data sets. Some of these digital libraries need to be custom-built and require powerful servers, innovative engineers, and informatics experts.

Our data curation and consultation experts have been exploring needs on campus and partnering with faculty and students to help manage these types of data projects. Most notably, we have worked closely with researchers and mechanical engineers to create a prototype digital library to manage data output from sensor technology in the Signature Engineering Building.

In order to address data management and publishing needs, faculty and staff at the University Libraries have been actively working on our digital repository, web-based publishing platforms, data curation consulting and instruction, and our Open Access Subvention Fund.

Our digital repository service, VTechWorks, currently holds over 39,000 items including 22,000 recently archived electronic theses and dissertations. The number of full text downloads has reached 2 million in the last year and the visibility and impact of our digital collections ranks 7th in the United States and 15th in the world according to the Webometrics Ranking Web of Repositories: http://repositories.webometrics.info/en/world.

The sheer volume and complexity of data produced at Virginia Tech requires a robust, scalable and sustainable repository infrastructure, which we currently engineer to meet national repository software standards, local big data project needs, and to integrate cloud storage. We joined both the international-level Hydra Project and Fedora Futures communities in an effort to immerse ourselves in the leading digital repository and preservation systems, which has greatly informed the development of Virginia Tech's next generation repository system. We continue to contribute technical expertise to a leading preservation repository development project in partnership with the University of Virginia.

Our repository collections are also growing in size and richness. We have seen a rise in the number of papers, conference proceedings, news archives, and recorded lectures and scholarly events deposited in VTechWorks.

The Libraries' Event Capture Service launched in August of 2013 and captured and archived 72 recordings in VTechWorks, including senior project presentations for a civil and environmental engineering course, a lecture series in electrical and computer engineering, and a digital humanities speaker series.

Over the past four years, seventeen new employees, including several students, were hired in this area to enhance the Libraries' capacity to carry out its mission. In the past year, five new employees joined to help us achieve our strategic goals and objectives in digital library development, researcher networking, and repository services. Both undergraduate and graduate students supported these and other digital curation activities and research projects, giving them valuable experience managing data and information and working directly with research collections. Approximately one-third of the students engaged in this work in the library major in computer science or a similar program of study. Over the course of the past year, our partnerships with researchers in computer science, mechanical engineering, humanities, and fisheries science on data and informatics-related research projects have helped to strengthen our engagement with the Virginia Tech research community. Our research collaborations in the Research and Informatics division led to the following accomplishments:

- Mellon Foundation/Columbia University Web Archiving Incentive Program grant (PI), "Archiving transactions towards uninterruptible web service" (\$25,000) with computer science professor Edward Fox
- US Geological Survey Biological Informatics Program grant (co-PI), "Modeling how traits mediate fish vulnerabilities to specific habitat alterations" (\$61,000) with fisheries science associate professor Emmanuel Frimpong
- Institute of Museum and Library Services (IMLS)
 National Leadership Grant (steering committee member)
 led by University of North Texas (2011-2013),
 "ETD Lifecycle Management"(\$268,000)
- National Endowment for the Humanities grant (sustainability advisor) led by the Educopia Institute (2011-2013), "Chronicles in Preservation" (\$300,000).
- Association for Computers in the Humanities mini-grant (co-PI) led by University of Virginia, "dm4dh: Data Management for the Digital Humanities" (\$500) with Quinn Warnick, Virginia Tech assistant professor of digital rhetoric
- · Two Amazon and IBM teaching and cloud storage grants (PI)



THEME TWO: Research and Curation

Four grant proposals are also currently under review:
1) a research data curation project (IMLS, team member, \$250,000), 2) a research data environmental assessment project (IMLS planning grant, lead PI, \$60,000),
3) a data management repository development project (United States Agency for International Development, subcontractor, \$129,000), and 4) a data management repository development project (National Science Foundation Computer and Information Science and Engineering Directorate BIGDATA Program, senior investigator, \$1,999,000).

Two library faculty members participated in the Office of the Vice President for Research's Proposal Development Institute, helping us to strengthen the competitiveness of our grant proposals and secure funding applied digital library and information science research.

Our partnerships with faculty on data curation projects in the digital humanities also resulted in exciting digital resource development collaborations. Examples include supporting Omeka for Paul Quigley's Mapping the 4th of July in the Era of the Civil War project and assisting with the visualization of David Radcliffe's Lord Byron and His Times archive.

We also continued to provide guidance to researchers on creating data management plans that comply with funding agency requirements to ensure long-term access and preservation. The DMPTool continues to be a valuable resource to researchers.

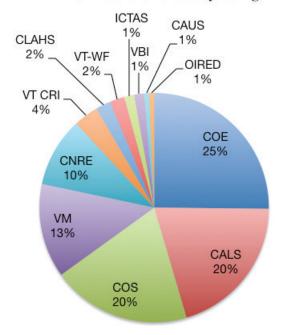
Education and outreach on data curation and changes in scholarly publishing are an important way we connect with faculty and students working in web-based and data-intensive research environments. To help navigate through some of these topics, we developed web-based and self-paced learning resources including a Data Management Guide (intended to assist faculty, staff, and student researchers in efficiently and effectively managing and preserving their data) and an Open Educational Resources Guide (intended to assist students and faculty in understanding and engaging with OER - http://vt.libguides.com/OER).

We also collaborated with the Office of the Senior Vice President and Provost and Office of the Vice President for Research on an evaluation that led to the university's contract with Symplectic Elements, a faculty information and activity reporting system. The library manages the Elements application and is actively working with IT, OVPR, and the Provost's Office on implementation.

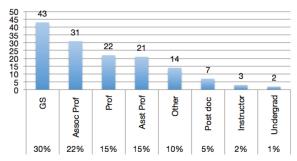
The VIVO researcher profile pilot project is also underway with humanities, arts, science, and engineering researcher profiles available in a development instance managed by the library and hosted by IT.

In support of publishing, we began offering a web-based conference proceeding publishing service based on Open Conference Systems (OCS) open source software. We worked with Dr. Eric Peterson, Department of Aerospace and Ocean Engineering, and the Virginia Tech Transportation Institute on using OCS-based services to organize conferences and symposiums. We also supported the open access publishing of Virginia Tech research and transitioned the Open Access Subvention Fund from pilot to a formally budgeted item. This year we saw the following funding distributions:

VT Authors Funded by College



VT Authors Funded by Classification



Other = Institute Director, Lab Specialist (3), Project Associate, Research Associate (3), Research Assistant, Research Engineer, Research Scientist, Research Specialist, Research Technician



THEME THREE: Teaching, Learning and Literacies

Instruction and information literacy continue to be central in the fulfillment of the University Libraries' mission and its contribution to the university. The University Libraries provided over 770 classes, 17 presentations, and 42 tours, reaching a total of 16,386 participants with these sessions.

Our Special Collections department also increased its number of instructional sessions, providing 54 sessions to graduate and undergraduate students.

Through our continuing work with the First Year Experience Program to improve students' information literacy skills, the libraries supported the development and delivery of 64 First Year Experience courses reaching over 2,500 students in the following departments/colleges:

- Biochemistry
- · College of Agriculture and Life Sciences
- · Building Construction
- · School of Architecture + Design
- · Urban Affairs and Planning
- · College of Engineering
- · College of Liberal Arts and Human Sciences
- · College of Natural Resources and Environment
- · Pamplin College of Business
- · Physics
- Psychology
- · College of Architecture and Urban Studies
- Statistics
- · College of Science
- · University Studies

In January 2014, our two reference desks were merged into one centralized location on the second floor and desk staffing was transferred primarily to graduate students. This allowed subject librarians to focus on using the live chat Ask a Librarian service on our website.

Some highlights that exemplify the Libraries' support for research include:

- Becoming a Center of Excellence (COE) for the Agricultural Research Service
- Two of our faculty members serving on dissertation committees for graduate students within their liaison departments
- Teaching and/or co-teaching credit courses in colleges and departments
- Initiating the Advanced Research Skills workshop for undergraduate students

- Providing ongoing user support for bibliographic management tools
- Providing ongoing user support of statistical software
- Providing over 14,100 answers to reference questions or research consultations
- Answering an additional 917 reference questions in our Special Collections department
- Began offering LibGuides, online learning platforms providing resources and tutorials to help students with research needs

In the summer of 2013, we launched the eResearch Sessions internal pilot, which included sessions on the following topics:

- · Scholarly Publishing/Altmetrics/Digital Humanities
- Scripting
- Mendeley
- · N Vivo (Qualitative Assessment)
- · Open Access and Copyright
- · Open Journal Systems
- · Data Visualization
- · Using APIs
- · Data Management

This year a team of library faculty and staff helped to shape a stepped instructional model for data literacy and to design strategies for embedding data literacy into the undergraduate curriculum. We offered a series of course-embedded data-themed lectures for undergraduate classes and graduate seminars for the College of Natural Resources and Environment's environmental informatics major and reached out to all audiences through FDI/NLI sessions on data management and scholarly communication topics throughout the year.

For the second year in a row, we partnered with the Graduate School and the Office of the Vice President for Research, as well as the University of Virginia, James Madison University, George Mason University, and Old Dominion University to host a graduate student data management boot camp delivering learning outcomes-based instructional sessions on organizing, documenting, transforming, storing, preserving and sharing data. Our partnership with the Graduate School to host Open Access Week continued this year with a week of sessions on copyright, electronic theses and dissertations, author processing charges, scholarly identity, and open journal publishing, panels of faculty and graduate students, and a keynote speaker.



THEME THREE: Teaching, Learning and Literacies

The University Libraries mapped emerging literacies in higher education and explored literacies that many students will be required to be proficient in upon graduation. We have expanded efforts to support data literacy among students and faculty by promoting a librarian to become our Assistant Director, Data Curation. We also are mounting a new visual literacy program, which includes the hiring of a Visual Literacy Instructor and Graphic Designer to develop a visual literacy program in the libraries.

Through working with many new partners in teaching and learning initiatives, we have provided students and faculty with the tools and space to experiment, learn, instruct, and even showcase work. The following projects and partnerships have been instrumental in guiding our efforts:

- · Course engagement:
 - Sponsored a service-learning project for students in the Pamplin School of Business to create a business model for our café
 - Developed the Course Exhibit Initiative and hosted four faculty courses
 - · Amy Nelson's Soviet History course blogs
 - Matthew Vollmer's Creative Nonfiction interactive course projects
 - Purdom Lindblad's digital humanities course projects
 - · Jill Sible's Cancer Biology course projects
 - Worked with faculty member Amy Nelson on infrastructure for course blogs and showcased students' work through a digital display (news article)
 - Collaborated with Technology-enhanced Learning and Online Strategies (TLOS) and Human Nutrition, Foods, and Exercise faculty on concept development of an open electronic learning resource to teach metabolic nutrition
- Support in the library:
 - Partnered with e-Portfolio Initiatives to offer e-Portfolio mentors in a consistent space in Newman Library
 - Provided space in our Port lab for the Laboratory for Interdisciplinary Statistical Analysis (LISA) to offer walk-in consulting
 - Provided space for Peer Career Advisors from Career Services to offer resume assistance and other career related services

- Education and outreach events:
 - Continued partnership with the Graduate School to host Open Access Week, a week of sessions on copyright, electronic theses and dissertations, author processing charges, scholarly identity, and open journal publishing, panels of faculty and graduate students, and a keynote speaker
 - Worked with the College of Agriculture and Life Sciences First Year Experience program to host a reception for University Studies students presenting posters on the common book
 - Partnered with the Graduate School and the Office of the Vice President for Research, as well as several other universities, to host a data management boot camp
 - Offered Undergraduate Research Institute workshops for an Advanced Research Certificate program



In response to drastic increases in the use of our online, electronic resources and declines in the use of print materials, the University Libraries continue to expand electronic collections while maintaining useful, unique, and relevant print collections.

We are continuing to make ebook acquisitions a priority as editions are electronically available. This year, we:

- Initiated e-only approval plan for STEM-H (Science, Technology, Engineering, Mathematics and Healthcare Professions) books
- · Converted our Yankee Book Press approval
- · plan to e-preferred
- Decreased spending on approval books (print) in favor of Demand Driven Acquisitions to support a patron-driven model

The following progress was made to expand our collections of scanned articles to provide materials more quickly and efficiently to users:

- · Scanned articles from microfilm/fiche
- Digitized Society of Automobile Engineers papers and articles for delivery
- Began sending PDFs of requested articles from electronic resources through Desktop Delivery

Throughout 2013, Special Collections created an online platform to house digitized items. Later in the year, we initiated a development project with the installation of eXtensible Text Framework (XTF), an open source platform that provides access to digital content. Finding aids were uploaded for testing.

In December 2013, we launched VT Special Collections Online, which provides the public with access to over 1,500 digitized items and their associated metadata. The site includes manuscripts, Civil War letters and diaries, and the entire Virginia Tech Corps of Cadets Museum collection.

Following the success of these projects, we:

- · Hosted additional exhibits in Omeka
- Began hosting Omeka for the digital humanities, which features content created by students and faculty for courses
- Migrated image collections to http://mdid.lib.vt.edu
- Developed workflows for creation and ingest of digital material

- Created local policies and procedures for digital asset management
- · Began developing a cyberinfrastructure plan

The transitioning of our Open Access Subvention Fund from pilot to official program not only marks increased support to help researchers at Virginia Tech publish, but also indicates our commitment to providing open, convenient access to the university's research in our digital repository, VTechWorks.

Other collections highlights include:

- Interlibrary Loan noted increases this year, processing over 11,000 requests for extended campus users
- Borrowing requests increased 28% from last year, with a total of 36,572 requests filled for books, dvds, electronic items, and other materials
- Scanned and added 500 monographs to VTechWorks
- Expanded Mango for Libraries, an online language learning resource
 - Increased number of languages from 49 to 57 and added all available levels
 - Increased usage from 12,572 minutes to 18,079 minutes
- Added 467 print volumes to Special Collections (181 donations; 286 purchases)
- Added new Special Collections acquisitions, including Civil War diaries and letters, and historical items from the university
- Added 3,433 publications to VTechWorks, resulting in 38,469 items now in the repository
- Added 691 ejournal articles in 38 issues to our Scholar ejournal collection
 - 4,784,594 hits requesting 2,732,420 pages
 - 18,078 distinct files requested
 - 1,092,698 unique visitors



DIVERSITY-RELATED ACCOMPLISHMENTS

The Diversity Council of the University Libraries accepted nominees for, discussed, and awarded the first library-wide diversity award to recognize extraordinary diversity efforts in the library.

The Council, with the support of Dean Walters, hosted an in-house presentation by consultant Jamie Washington, who regularly presents at the Diversity Development Institute. This training ensured that the Diversity Council is operating with a common vocabulary and focus as it grows in future years.

Additionally, the Diversity Council met to discuss library diversity efforts and has begun an education program focused on making the Principles of Community more accessibly to the library community.

Ten University Libraries employees participated in over 30 diversity-related classes over the past year, some of which resulted in certifications and/or certificates.



SUMMARY OF PERSONNEL UPDATES

Over the past year, new hires at the University Libraries have included the following:

Faculty: 9 A/P faculty positions, all Lecturer appointments: 4 women (1 Asian) • 5 men (1 Asian) **University Staff**: 6 staff positions: 3 women • 3 men (1 Hispanic or Latino)

1500 hour open ended wage employees (wage employees hired through searches): 11 wage positions: 9 women • 2 men We had 10 resignations and 2 retirements during this time.



ADMINISTRATIVE QUALITY AND IMPROVEMENT (ADQI)

2013-2014 ASSESSMENT PRACTICES

Open Access Subvention Fund

During the pilot project for our Open Access Subvention Fund, we were thrilled to award \$58,700 to 117 Virginia Tech authors. Through this project, the fund supported the publication of 55 open access articles in 38 journals by 22 publishers. However, 67 requests were submitted, totaling \$100,564 in publisher fees, which indicated that there was a greater need for funding than we could supply during the pilot.

After full assessment of the pilot project, we recognized the need to expand funding and support additional articles. In response, we worked quickly to transition the pilot into an officially budgeted item. As of June 2014, the fund is in the strategic budget request each year and we will have \$50,000 to support this year's applicants. We will continue to evaluate the fund each year and continue its growth based on demand.

Language Learning Software

With the purchase of Mango for Libraries, an online language learning program, usage hours increased by 40% from 2012 to 2013. In 2014, usage increased again from 12,572 minutes to 18,079 minutes.

Through this assessment, we recognized a need to add more languages and levels in response to increasing usage. In 2014, we added additional languages, increasing the number offered from 49 to 57, and added many more levels of proficiency. We will continue to monitor the usage of our language resources, make them more accessible, and add languages and levels as needed.



ADMINISTRATIVE QUALITY AND IMPROVEMENT (ADQI) continued

Peer Roving Assistants

Beginning in October of 2013, Peer Roving Assistants conducted over 900 individual observations of all points in the library. These observations provided us with a wealth of information about how library spaces are being used.

After analyzing data collected during the observational period of October 2013 to May 2014, we were able to determine that Virginia Tech students prefer to study alone, even if they want a loud, social area. We also learned that Wednesday is Newman Library's busiest day based on seating counts. As we knew, the fourth floor and the second floor are the busiest areas of the Library. What surprised us was that the quiet floors (third and fifth) are also incredibly popular with our students. Electrical outlet usage is highest on the second, third, and fourth floor, which corresponds with the floors that have the most chairs.

The interviews conducted indicated while that students enjoy the renovations so far, they would like to see more color and more variety. This desire is reflected in the new color choices on the second floor of the library. Regardless of the gathering tool used, students continuously ask for additional power outlets. The library has taken small steps to improve access to electricity by adding a power partition with the second floor renovations and furniture that provides additional outlets. Finally, to assist students in finding electrical outlets, illustrative signs have been placed above outlets.

We will continue to add additional electrical outlets, respond to student input regarding color and furniture, and use space assessment to guide our planning of learning spaces.



GOALS AND OUTCOMES: 2014-2015

1. LEARNING SPACES: STUDENT COLLABORATION SPACES EXPANDED					
Outcome	Complete second floor storage and weeding initiative including shifting of floors 2, 3, and 4 as well as breakdown of shelving on the second floor in order to expand space for student collaboration areas.				
Measure	Remove empty shelving, ~75,000 volumes from floors 2-4, monitor and document shifting of collections from floors 4, 3, and 2.				
Target	100% measures completed.				
Documentation	Statistics collected for weeding Storage accessions Shifting of collection				

2. RESEARCH & CU	2. RESEARCH & CURATION: PUBLISHING SERVICES				
Outcome	Partner with stakeholders to explore transitioning the Open Access Subvention Fund from pilot to established service.				
Measure	Count the number of applications and recipients.				
Target	Spend 100% of monies set aside for Open Access Subvention.				
Documentation	Spreadsheet of recipients Amount received by recipients Research area				



GOALS AND OUTCOMES: 2014-2015

3. TEACHING, LEARNING, AND LITERACIES: PROTOTYPING NEW LITERACIES & PEDAGOGIES					
Outcome	Provide new methods and pedagogies for instructional engagement to ENGL 1106 courses.				
Measure	% of ENGL 1106 courses taught.				
Target	90% of ENGL 1106 sections taught.				
Documentation	Strategy document Document learning outcomes and lesson plans for each course Course statistics Assessment for impact on each course (both instructor and student)				

4. COLLECTIONS A	4. COLLECTIONS ACCESS: PRINT COLLECTION MANAGEMENT					
Outcome	Refine internal policies on storing and discarding print collections.					
Measure	Utilize data from circulation, WorldCat, ASERL collaborative journal retention project, and VIVA Collections Analysis with faculty feedback.					
Target	Develop rational and pragmatic guidelines for retention of hard copy collections.					
Documentation	Greenglass evaluation tool results ASERL Scholars Trust database reports Circulation reports WorldCat reports VIVA Collections reports Policies with refinements made according to results of evaluation tools					

Virginia Tech's University Libraries: University Plan Crosswalk - Progress Report: Fiscal Year 2014

virg	inia Tech's University Librarie	s: University Plan Crosswalk	- Progress Report: Fiscai Yea	r 2014
Long Range Plan Element	Provost Plan	Related College Strategic Plan Statement	Related Metric	Related University Libraries Accomplishments, 2013-2014
Pathways to Interdisciplinary Success - Create and support environments for its educational and research programs that support innovative, high-quality, and high-impact outcomes.	Enhance the Overall Virginia Tech Experience for Students - Participate in applied and experiential learning experiences that foster opportunities for reflection and deep, long-term engagement with faculty, staff, and other students.	Learning Spaces - Design and optimize virtual and physical research environments that spur innovation, nurture intellectual curiosity, and inspire creativity.	Complete and implement Commons transition framework (finish first and second floor renovations plans; finish Phase I and II of second floor storage and weeding initiative (new and old wing of second floor; finish plan for downsizing/move of Maps, Microforms, and Government Documents for ICAT)	Reduced microfilm footprint to approximately 50% of its original size by purchasing electronic resources - Reduced maps collection as online copies became available - Moved maps to the new warehouse - Cleared first floor space and turned it over to Virginia Tech Facilities; ICAT teaching studio construction began in July 2014 - Weeded second floor reference collections - Shifted second floor collections to the third floor - Painted and installed new carpet on the second floor - Continued to cull collections to create more study space for students (assisted by the purchasing of electronic resources when available)
A New Vision for Undergrauate General Education - Demonstrate competence in fundamental areas such as computation -thinking skills, critical analysis, and written and verbal communication.	Improve Core and Liberal Education - Including the Incorporation of Computational Thinking - Virginia Tech will create new foundational courses in computational thinking required for fulfillment of the general education curriculum and will facilitate the development and implementation of advanced courses that focus on computational thinking for all upper- level undergraduate students.	Teaching, Learning, and Literacies - Expand the role, reach, and effectiveness of library instruction into new domains to address new learner segments and needs. Assess the impact of these efforts on campus-wide learning.	Pursue programmatic partnerships with external stakeholders for new initiatives	-Continued Open Access Week partnership with the Graduate School and CLAHS to offer NLI sessions on electronic theses and dissertations, copyright, and publishing matters, hosted panels, and brought in a keynote speaker -Partnered with ePortfolio Initiatives to offer e-Portfolio mentors in Newman -Provided the Laboratory for Interdisciplinary Statistical Analysis (LISA) with space in our Port lab to offer walk-in consulting -Hosted a Data Mangement Bootcamp for Graduate Students in partnership with the Center for Digital Research and Scholarship, the Graduate School, the Office of the Vice President for Research, the University of Virginia, James Madison University, George Mason University, and Old Dominion University, and Old Dominion University offered Undergraudate Research Institute workshops for an Advanced Research Certificate program
The Life of the Mind - Inspiring creativity, curiosity, and critical thinking - A commitment to research and experiential learning for students requires that we incorporate a diverse and inclusive range of perspectives and resources into undergraduate and graduate courases across all disciplines.	Position for Success in Online Education - Virginia Tech will seek distinction by accelerating new ways of learning and enhancing teaching and learning practices with technology.	Research and Curation - Offer digital media production support to researchers engaged in scholarly activities: developing digital collections, digital resources, videography, digitization, and imaging.	a scalable and sustainable cyberinfrastructure plan. Launch an online platform for digitized and born-digital cultural heritage collections and associated materials. Integrate the virtual communities platform into repository development efforts.	-Created an online platform to house digitized items -Initiated a development project with the installation of extensible Text Framework, an open source platform that provides access to digital content -Uploaded finding aids to test extensible Text Framework -Launched VT Special Collections Online: over 1500 digitized items and their associated metadata are currently available to the public -Special Collections began hosting exhibits in Omeka featuring digitized materials from collections -Began hosting Omeka for the digital humanities -Developed workflows for creation and ingest of digital material -Created local policies and procedures for digital asset management

Virginia Tech's University Libraries: University Plan Crosswalk - Progress Report: Fiscal Year 2014

Virginia Tech's University Libraries: University Plan Crosswalk - Progress Report: Fiscal Year 2014						
Long Range Plan Element	Provost Plan	Related College Strategic Plan Statement	Related Metric	Related University Libraries Accomplishments, 2013-2014		
The Virginia Tech Experience - Continue to implement programs and policies that create the superior research, learning, and workplace environments essential to a vibrant academic institution.	Enhance the Overall Virginia Tech Experience for Students - Engage in dynamic learning environments that inspire them to commit to unwavering curiosity, pursue self-understanding and integrity, practice civility, prepare for a life of courageous leadership, and practice Ut Prosim (That I May Serve) as a way of life.	Learning Spaces - Foster an ongoing conversation with the campus community regarding their evolving research and scholarly needs and activities, which will inform the Libraries' development of spaces, technologies, and expertise.	Collect and analyze learning and research needs of students and faculty to inform service and space planning	-Formed the Library Student Advisory Board, which meets every other week and allows students to provide feedback for service and space planning -Formed the Dean's Advisory Council for the Libraries' Dean to gather feedback from faculty -Peer Roving Assistants began gathering stats and photos to help inform service and space planning -Sent out classroom instruction surveys -Examined reference surveys and chat transcripts to identify areas of need		
E-Learning and Distance Learning -	Build and Focus the University's	Learning Spaces - Design and	Support internationalization,	-Upgraded Mango for Libraries, a		
Increase support for international experiences and foreign-language competency for undergraduate and graduate students.	international and comparative content and expand and create living-learning language	implement services, programs, and virtual communities that advance online and distance learning initiatives.	globalization, diversity, and multiculturalism by expanding our language resources to include Mango language learning modules	language learning software, to include expanded content -Increased number of languages from 49 to 57 and added all available levels -Increased usage from 12,572		
Pathways to Interdisciplinary Success - Provide appropriate infrastructure, administrative support, and opportunities for collaboration, and the time and freedom to create, apply, and communicate new knowledge.	communities. Build upon Existing and Emerging Research Strengths - Virginia Tech will create and sustain environments for educational and research programs that support innovative, high-quality, and high-impact research by providing the administrative support needed to create, apply, and communicate new knowledge, developing innovative graduate programs that build on interdisciplinary strengths; reward outstanding faculty with disciplinary expertise and openness to innovation; and establish partnerships among research institutes, centers, and other internal and external entities.	Research and Curation - Offer data management solutions for researchers to accelerate the development of important new discoveries.	Create an eResearch outreach toolkit and launch a public data management portal	minutes to 18,079 minutes -Launched a Data Management Guide, which is intended to assist faculty, staff, and student researchers in efficiently and effectively managing and preserving data -Hosted the webinar "Learning about Data Management: Resources, Tools, and Materials -The eResearch Hub developed a draft eResearch Outreach Toolkit		
Pathways to Interdisciplinary Success - Provide appropriate infrastructure, administrative support, and opportunities for collaboration, and the time and freedom to create, apply, and communicate new knowledge.	Build upon Existing and Emerging Research Strengths - Future research activities depend on leveraging collaborations within and beyond the university in ways that compound strengths and broaden impacts. Internal networks connect individuals, programs, centers, colleges, and institutes horizontally on the basis of shared questions that produce new knowledge based on innovative methods. External networks connect Virginia Tech to the business community, community performers, national laboratories, international partners, government agencies, and other universities. Virginia Tech will continue to build networks to promote excellence in research and scholarship	Research and Curation - Provide seamless preservation, dissemination, and discovery strategies for research data and digital scholarship as part of the digital curation continuum supported by the Libraries.	Create a framework for identifying and harvesting content for the institutional repository	-Prioritized content types and created assignments for recruiting content from Virginia Tech units		
A New Vision for Undergraduate General Education - become a leader in providing innovative, creative approaches to general education.	Position for Success in Online Education - Using current and emerging technologies to enhance traditional classrooms.	Teaching/Learning/Literacies - Expand the role, reach, and effectiveness of library instruction into new domains to address new learner segments and needs. Assess the impact of these efforts on campus-wide learning.	Implement SCALE-UP program. Use the SCALE-UP classroom to explore new library instruction models that foster problem-solving skills	-Corps of Cadets and Summer Academy used SCALE-UP for instruction; working on piloting a new instruction format using this type of environment -Librarians co-taught sessions in SCALE-UP with problem-based learning outcomes		

Virginia Tech's University Libraries: University Plan Crosswalk - Progress Report: Fiscal Year 2014

Virg	Virginia Tech's University Libraries: University Plan Crosswalk - Progress Report: Fiscal Year 2014						
Long Range Plan Element	Provost Plan	Related College Strategic	Related Metric	Related University Libraries			
		Plan Statement		Accomplishments, 2013-2014			
	Incorporation of Computational Thinking - Will both identify and realign resources from the current general education curriculum to support the new curriculum and will invest in professional development for faculty, staff, advisors, and graduate students to support the new initiatives in general education.	processing fees and incentivize open publishing practices. Provide new knowledge creation and	Access Subvention Fund from pilot to established service	-Documented use of funds and the colleges, departments, and authors who have benefitted -Worked with authors and publishers to streamline the payment process -Successfully transitioned the fund from pilot to an item in the strategic budget each year and have \$55,000 to support this year's applicants			
technologies to enhance traditional classrooms, provide mobile access, and expand high-quality distance- learning opportunities.	of learning and enhancing teaching and learning practices with technology.	library-curated collections within Virginia Tech learning and research environments. Develop collections through user demand-driven acquisition of licensed content.	preserve, and provide access to selected paper-based collections maintained by Records Management. Digitize special and general library collections for online access (digitize 500 VT Cooperative Extension publications; digitize 2,000 print VT dissertations; develop a plan to digitize, preserve, and provide access to selected paper-based collections maintained by Records Management and Special Collections)	-Purchased a dark archive server through the Equipment Trust Fund to serve as a preservation step between newly scanned resources and the libraries' distributed digital preservation strategy			
The Virginia Tech Experience - Explore and expand programs that promote and enhance health and well-being, cultural awareness, and life-long learning.	Experience for Students - provide opportunities to engage in residential communities that foster close interactions with faculty, staff, and other students.	Collections Access - Build and curate research collections of distinction for Virginia Tech; explore thematic approaches to developing physical and digital collection so unique, rare, and historically significant matierals.	statewide planning efforts to improve online access to the state's unique resources	The Virginia Heritage project recently increased its efforts to provide access to finding aids from across the state -Special Collections has three representatives serving on the governance team and subgroups; a large amount of time has been devoted to working with others to promote, educate, and strengthen the project			

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Dean of Libraries To provide and promote access to information resources for the achievement of the university's objectives in teaching, learning, research, creativity, and community service; to meet the information, curricular, and research needs of students, faculty and staff of the Virginia Tech community, wherever located, in a manner that respects the diversity of				2013-2014 Achieveme Measu	ent Status Details for are - Outcomes Pairs: Met (8)
Goal	Outcomes	Measure	Target	Finding	Action Plan
G 4: Teaching, Learning and Literacies	O 14: eResearch	M 16: eResearch Sessions	Increase the number of eResearch Sessions with collaborating faculty and institutions by 5%.	Status: Met The number of eResearch sessions increased by 100% (from eight to 16 sessions). Collaborators also increased by 100%.	AP: eResearch
G 4: Teaching, Learning and Literacies	O 14: eResearch	M 16: eResearch Sessions	Increase the number of eResearch Sessions with collaborating faculty and institutions by 5%.	Status: Met The number of eResearch sessions increased by 100% (from eight to 16 sessions). Collaborators also increased by 100%.	AP: Library instruction track

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G 4: Teaching, Learning and Literacies	O 14: eResearch	M 18: Library Subvention Fund	Continue to monitoring usage of pilot funds as we are trying to establish a perceived need of subvention fund to promote Open Access publishing.	Status: Met Summary of the Two-year (FY13-FY14) Open Access Subvention Fund Pilot Project Gail McMillan, July 2, 2014 Virginia Tech began subsidizing article processing fees for authors publishing scholarly peer reviewed articles in open access and hybrid journals in August 2012, following the approval of "The Proposal for a Virginia Tech Open Access Publishing Fund." During the pilot, 67 requests for funds were made, totaling \$100,564 in publisher fees. In response to these reques	AP: Subvention Fund
G 4: Teaching, Learning and Literacies	O 14: eResearch	M 20: eResearch Collaborators	Increase the number of Collaborators in eResearch projects by 5%.	Status: Met The number of collaborators increased by 100% from the previous year. The hope is for this growth to continue as the library builds and this program evolves.	AP: eResearch Collaboration

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G 4: Teaching, Learning and Literacies	O 14: eResearch	M 20: eResearch Collaborators	Increase the number of Collaborators in eResearch projects by 5%.	Status: Met The number of collaborators increased by 100% from the previous year. The hope is for this growth to continue as the library builds and this program evolves.	AP: Library instruction track
G 4: Teaching, Learning and Literacies	O 15: FYE Program Plans	M 19: FYE Pre and Post Test Evaluations	We are benchmarking with the effectiveness of inquiry sessions in FY14. We would like to see 75% or more of the students show growth on the Information Literacy Tests during FY15.	Status: Met We had close to 2000 students who took the pre and the post test. When taking all of our results for those courses who reported (as they were supposed to but of course some didn't) the students average increase was close to 10 points (9.7). We were very pleased because we strategized our instruction and worked with course instructors to improve the assignments and timing. All but one course of the 10 that reported showed a % increase from pre to post test. This is estim	AP: Continue monitoring pre and post test FYE classes

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G 5: Learning Spaces	O 13: Expand language resources	M 17: Measure language resources usage.	Increase the total number of minutes the language resources are used by an additional 40% over the benchmarking year by additional proficiency levels in Mango.	Status: Met During FY14, Mango was used 18,079 minutes. Again, a huge jump in usage meeting our target to increase the use of our language resources.	AP: Language Resources Action Plan
G 5: Learning Spaces	O 16: Complete 1st floor renovation plans.	M 21: Downsizing library footprint on first floor for ICAT.	90% of the Maps, Microforms, and Government Documents in the space on the first floor should be moved by February 2014 so that renovation planning for ICAT can begin.	Status: Met The allocated space was cleared for ICAT and the project was completed on time. Some materials were moved to the new warehouse to make room for ICAT. Others were downsized and some were left in other locations on Newman's first and fifth floors.	AP: Begin ICAT construction

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G 5: Learning Spaces	O 17: Space	M 23: Roving	Learning Commons	Status: Met	AP: Roving
	Observations and	Observations and	Librarian and Roving	Beginning in October of	assessment project
	Interviews	Interviews	student workers will	2013 the Peer Roving	
			conduct space	Assistants conducted over	
			assessments and in-	900 individual	
			person interviews in	observations of all points	
			order to gain a better	in the library. These	
			understanding of	observations provided us	
			how space is being	with a wealth of	
			used and can be	information about how	
			improved.	library spaces are being	
				used. After analyzing data	
				collected during the	
				observational period of	
				October 2013 to May	
				2014, we were able to	
				determine that Virginia	
				Tech students prefer to	
				study alone, even if they	
				want a loud, social area.	
				We also learned that	
				Wednesday is the L	
G 6: Collections	O 14: eResearch	M 16: eResearch	Increase the number	Status: Met	AP: eResearch
Access		Sessions	of eResearch	The number of eResearch	
			Sessions with	sessions increased by	
			collaborating faculty	100% (from eight to 16	
			and institutions by	sessions). Collaborators	
			5%.	also increased by 100%.	

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G 6: Collections Access	O 14: eResearch	M 16: eResearch Sessions	Increase the number of eResearch Sessions with collaborating faculty and institutions by 5%.	Status: Met The number of eResearch sessions increased by 100% (from eight to 16 sessions). Collaborators also increased by 100%.	AP: Library instruction track
G 6: Collections Access	O 14: eResearch	M 18: Library Subvention Fund	Continue to monitoring usage of pilot funds as we are trying to establish a perceived need of subvention fund to promote Open Access publishing.	Status: Met Summary of the Two-year (FY13-FY14) Open Access Subvention Fund Pilot Project Gail McMillan, July 2, 2014 Virginia Tech began subsidizing article processing fees for authors publishing scholarly peer reviewed articles in open access and hybrid journals in August 2012, following the approval of "The Proposal for a Virginia Tech Open Access Publishing Fund." During the pilot, 67 requests for funds were made, totaling\$100,564 in publisher fees. In response to these reques	AP: Subvention Fund

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G 6: Collections Access	O 14: eResearch	M 20: eResearch Collaborators	Increase the number of Collaborators in eResearch projects by 5%.	Status: Met The number of collaborators increased by 100% from the previous year. The hope is for this growth to continue as the library builds and this program evolves.	AP: Library instruction track

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G 7: Research and Curation	O 6: Coordinate development of VTechWorks Repository	M 22: VTechWorks Development	For fiscal year 2013/2014, increase collection of digital objects in VTechWorks Repository by 20%. Generate report on based on qualitative data about repository user community for library administration and to be made publicly accessible via VTechWorks.	Status: Met We added 25,673 items to VTechWorks since the previous year. There are currently 39,028 items in VTechWorks. Here are the VTechWorks collection totals, by fiscal year: FY 11 -12: 10,106. FY 12-13: 13,355. 3,973 items added since previous year = 39% growth FY 13-14: 39,028. 25,673 items added since previous year = 192% growth For an action plan going forward here are my goals: Increase number of digital objects by 10% Increase usage by 30% (measured by downl	AP: Continue increasing the number of digital objects in VtechWorks
G 7: Research and Curation	O 14: eResearch	M 16: eResearch Sessions	Increase the number of eResearch Sessions with collaborating faculty and institutions by 5%.	Status: Met The number of eResearch sessions increased by 100% (from eight to 16 sessions). Collaborators also increased by 100%.	AP: eResearch

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G 7: Research and Curation	O 14: eResearch	M 16: eResearch Sessions	Increase the number of eResearch Sessions with collaborating faculty and institutions by 5%.	Status: Met The number of eResearch sessions increased by 100% (from eight to 16 sessions). Collaborators also increased by 100%.	AP: Library instruction track
G 7: Research and Curation	O 14: eResearch	M 18: Library Subvention Fund	Continue to monitoring usage of pilot funds as we are trying to establish a perceived need of subvention fund to promote Open Access publishing.	Status: Met Summary of the Two-year (FY13-FY14) Open Access Subvention Fund Pilot Project Gail McMillan, July 2, 2014 Virginia Tech began subsidizing article processing fees for authors publishing scholarly peer reviewed articles in open access and hybrid journals in August 2012, following the approval of "The Proposal for a Virginia Tech Open Access Publishing Fund." During the pilot, 67 requests for funds were made, totaling \$100,564 in publisher fees. In response to these reques	AP: Subvention Fund

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G 7: Research and Curation	O 14: eResearch	M 20: eResearch Collaborators	Increase the number of Collaborators in eResearch projects by 5%.	Status: Met The number of collaborators increased by 100% from the previous year. The hope is for this growth to continue as the library builds and this program evolves.	AP: eResearch Collaboration
G 7: Research and Curation	O 14: eResearch	M 20: eResearch Collaborators	Increase the number of Collaborators in eResearch projects by 5%.	Status: Met The number of collaborators increased by 100% from the previous year. The hope is for this growth to continue as the library builds and this program evolves.	AP: Library instruction track



APPENDIX 1: LIST OF LIBRARY EVENTS, 2013-2014

 Religion and culture undergraduate research day
 Soviet history for the networked age course exhibit
 Arts + Crafts: creative nonfiction course exhibit
Arabfest arts and fashion show
Arabfest panel discussion
VT authors day
Black history month film screenings (2)
Center for Applied Technologies in the Humanities talks (5)
Georgia Me poetry reading
Appalanche
Graduate education week kickoff breakfast
Dean's forum on global engagement
Open education resources panel and workshop
Everyone matters day
GIS annual symposium
Jewish heritage month film screening
04/16 remembrance exhibit
La Grippe! Tom Ewing course presentations
Matthew Grimes course presentations
 Iliana Pagán-Teitelbaum course presentations
Gender, Bodies and Technology conference keynote performance
 Gender, Bodies and Technology conference film screening
CIDER conference librarian meet and greet
 Digital humanities project showcase



APPENDIX 2: LIST OF NEW LIBRARY RESOURCES, 2013-2014

JOURNALS

Annual Perspectives in Mathematics Education

Art Bulletin & Art Journal & CAA. Reviews

B.E. Journal of Economic Analysis & Policy

B.E. Journal of Macroeconomics

B.E. Journal of Theoretical Economics

Biofuels, Bioproducts & Biorefining

CAB Reviews

Communications in Computational Physics

Congress and the Nation

Educational Assessment

Environmental Education Research

Gut

IIE Transactions on Occupational Ergonomics and Human Factors

International Journal of Vehicle Autonomous Systems

Journal of Forestry

Journal of Library & Information Services in Distance Learning

Journal of Nanoscience and Nanotechnology

Journal of Studies of Alcohol and Drugs

Journal of Learning Sciences

Journal of Urban Cultural Studies

Journal of Visualized Experiments

Methods in Ecology and Evolution

National Geographic Magazine Online (1995-Current)

Nature Climate Change

Nature Communications

Serials Review

Smithsonian Magazine (2011-current)

DATABASES

Morningstar Advisor Workstation

Black Studies Center

Engineering Case Studies Online

Garden, Landscape & Horticulture Literature Index

Media Intelligence Center

SimplyMap

Sports Nutrition Care Manual

EBOOK PACKAGES

Elsevier Chemistry Series

Elsevier Handbooks in Economics Series

Knowledge Unlatched Open Access Ebooks

ONLINE JOURNAL ARCHIVES

American Institute of Physics (Volume 1-1998)

CAB Reviews (1930-2003)

Cambridge Journals Digital Archive Full Collection

Comprehensive Analytical Chemistry (1979-1999)

Current Digest of Russian Press (1949-2012)

Izvestiia (1917-2013)

JSTOR Arts and Sciences XI

JSTOR Arts and Sciences XIII

Journal of Vacuum Science and Technology (1964-1998)

Memoirs of the American Mathematical Society (1950-2012)

National Geographic (1888-1994)

Nature Chemical Biology (2007-2012)

Nature Chemistry (2009-2012)

Nature Climate Change (2011-2012)

Nature Communications (2007-2010)

Nature Geoscience (2008-2010)

Nature Neuroscience (2007-2010)

Nature Physics (2007-2010)

Nature Protocols (2007-2010)

Nature Reviews. Neuroscience (2007-2010)

Pravda (1912-2013)

SAGE Scientific, Technical & Medical Journal Package

ScienceDirect Inorganic Chemistry & Suppl 1

ScienceDirect Pharmacology, Toxicology and

Pharmaceutics Backfile & Suppl 1

ScienceDirect Physics General & Suppl 1

Smithsonian Magazine (1970 - 2010)

The Times (London) (1785-2006)

Wiley-Blackwell Analytical Sciences Backfiles

Wiley-Blackwell Civil Engineering Backfiles

Wiley-Blackwell Communications Technology, Electrical & Systems Engineering Backfiles

Wiley-Blackwell Genetics and Evolution Backfiles

Wiley-Blackwell Infectious Diseases & Clinical Microbiology Backfiles

Wiley-Blackwell Mathematics Backfiles

Wiley-Blackwell Microbiology Backfiles

Wiley-Blackwell Numerical Engineering Backfiles

UNIVERSITY LIBRARIES



