We’re facing a time of unprecedented change, with new opportunities arising daily to reach students, faculty, and community members through our collections and services. Librarians at UVM are playing a critical role in educating the next generation to be discerning, information literate consumers in an age of “fake news” and a deluge of media messages. Our instruction librarians work closely with students to impart information literacy skills and encourage critical thought.

At the same time, we are finding new ways to support faculty research. We are working hard to sustain important, relevant print resources while meeting the strong demand for online information that can be accessed anywhere, anytime. Librarians are also taking a campus lead in developing data management solutions for researchers and providing a platform for the UVM community to share its work with a global audience.

The incredible developments happening over the next year in our physical spaces will be a dramatic transformation, making our new roles even more visible. Over the coming year, we will see learning commons renovations to the Dana Medical Library; a direct, physical connection via a bridge to hundreds of first-year students from a new residence hall to Bailey/Howe; and a new home for Special Collections in the historic Billings Library.

It’s a pleasure to lead the UVM Libraries – an essential resource for student and faculty success – through these dynamic changes.

Mara Saule, Dean of Libraries and Chief Information Officer
LIBRARY AS PLACE:
TRANSFORMING SPACES

BRIDGE TO BAILEY/HOWE
In August of 2017, a bridge will connect the Central Campus Residence Hall and Dining Facility to the Bailey/Howe Library’s H. Lawrence McCrorey Gallery. The scope of work includes the construction of a 2,350 square foot addition to the library at the location where the new bridge will enter into the library’s main floor.

The new addition will provide:
- Direct and programmatic connections to first-year students
- More student seating and study areas
- A new home for the Libraries’ Media Resources, with expanded video and design equipment
- Enhanced visibility for the H. Lawrence McCrorey Gallery’s multi-cultural art collection

LARNER LEARNING COMMONS
The Larners have created the Learning Commons at the Dana Medical Library, thanks to a generous gift from the late Dr. Robert Lerner and his wife Helen Lerner. With lifetime giving totaling over 100 million dollars, the Larners are the most generous donors in UVM’s history. The Robert Lerner, M.D. College of Medicine was recently renamed in their honor.

This transformative project will integrate new features into the library and learning commons, including:
- An upgraded multi-purpose classroom
- Faculty development space
- An enclosed quiet study area for medical, nursing, and health sciences students
- A recording studio

BILINGS LIBRARY
The Billings Library renovation project will restore this historic and architecturally significant building as a vibrant academic center at the heart of campus. Billings will house the University Libraries’ Special Collections, the Center for Holocaust Studies, the Center for Research on Vermont, and the Humanities Center.

The long-awaited Billings renovation will bring:
- Increased quiet study spaces for students
- Improved event and classroom spaces for interpreting historical materials
- Enhanced security and preservation conditions for UVM’s most valuable research collections
- Further programmatic collaboration between key campus partners in the Humanities

August 2015
The Libraries’ team participated in Move-In Day, helping new students from the class of 2020 get settled in on their first day at UVM.
WHAT IS THE FUTURE OF THE ACADEMIC LIBRARY?

We asked our library leaders to reflect on evolutions in academic libraries and the challenges that excite them most.

WHAT DRAMATIC CHANGES HAVE YOU SEEN IN ACADEMIC LIBRARIES?

MARIANNE BURKE: Ten years ago, the Dana Medical Library had over 1,000 print journal subscriptions, now we’re down to 30. Meanwhile, a huge growth in electronic health sciences resources is transforming the way researchers, students, and clinicians do their work.

NANCY FAWLEY: Traditionally, public services librarians developed the collection, provided library instruction, and helped with reference questions. Now, librarians are expected to engage in the full lifecycles of teaching, learning, and research.

LAURA GEWISSLER: The implementation of institutional repositories to capture student and faculty scholarship and streamline access to theses and dissertations is a big change, with real potential to impact the scholarly publishing model.

JEFFREY MARSHALL: The work of creating and providing access to unique digital collections continues to grow in importance. But in some disciplines, physical collections remain vital resources for research and teaching. Balancing strategic investments in both types of resources is key to our mission.

PAUL PHILBIN: Students expect digital content and create it when it’s not available. With less student demand for physical items, we are freeing space to support their changing learning styles toward collaborative and group work. Students are more likely today to put two and three tables together to meet essentially like a board of directors.

WHAT EXCITES YOU MOST ABOUT THE COMING YEAR?

MB: College of Medicine teaching and technology partners are moving into the renovated Larner Learning Commons with health sciences librarians. We have tremendous opportunities to develop a new collaborative culture in the service of future researchers, caregivers, and patients.

NF: We recently hired a science and data librarian who is poised to support the University in new ways. We’ve learned that many faculty have unmet needs when it comes to managing their research data and we’ll be supporting them with additional partnerships and resources.

LG: As the price of library resources keeps rising unsustainably and demands on library space continue to grow, we’re engaging faculty more substantively in decision-making. Tough choices about what we’re able to retain and acquire could make for difficult relationships; instead we’re modeling more direct faculty involvement in shaping our collections by seeking their input on guiding policies.

JM: Special Collections faculty are increasingly acting as embedded librarians in courses to offer their expertise in subject areas and special materials. It’s exciting to see students’ hands-on work with our collections contributing in meaningful ways to their educational experiences.

PP: There’s more opportunity than ever to engage different perspectives – particularly students – in advancing our work. They’ll be a guiding voice as we unveil a new website that allows our users to access millions of research resources.

ONLINE LEARNING ON THE RISE

45% of current college students have taken an online class.*
82% of online learners would recommend the experience to others.*
46% of college students predict that half of college classes will be online in five years.*
300% of UVM courses were taught online or via a hybrid (online and in-person) format in 2016/2017.


We asked our library leaders to reflect on evolutions in academic libraries and the challenges that excite them most.
The Libraries have experienced continuing shifts in the ratios between print and electronic resources. Demand for electronic access is growing, but books and other printed materials remain central to many disciplines. The Libraries must provide access to electronic journals and databases, while continually honing a core print collection for current and future scholars.

Since 2006, the Libraries have experienced continuing shifts in the ratios between print and electronic resources. Demand for electronic access is growing, but books and other printed materials remain central to many disciplines. The Libraries must provide access to electronic journals and databases, while continually honing a core print collection for current and future scholars.

“For historians, print materials never lose their value and utility. The scope and methods of history mean that scholarship is relatively slow to emerge, but once it does, it has significant staying power. The library becomes an archive, and an archive is an historian’s laboratory.”

Nicole Phelps, Associate Professor, History

The UVM Libraries owns over 1.25 million printed items and provides access to over 420,000 digital resources.

**Electronic Journals Growth 2006-2016**

<table>
<thead>
<tr>
<th>Year</th>
<th>Print</th>
<th>Electronic</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>4,000</td>
<td>15,000</td>
</tr>
<tr>
<td>2016</td>
<td>650</td>
<td>64,000</td>
</tr>
</tbody>
</table>

**Dana Collection E-Books Growth 2012-2016**

A steady rise in e-books in the Dana Medical Library collection allows students to access online textbooks and other works.

Benefits include:
- 24/7 access
- Cost savings
- Downloads to personal mobile devices
- No more heavy backpacks!

In FY 2016, the UVM health sciences community viewed e-book content close to 40,000 times.

**UVM Libraries Most Used E-Journals 2016**

<table>
<thead>
<tr>
<th>Journal</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNAS (Proceedings of the National Academy of Science)</td>
<td>12,834</td>
</tr>
<tr>
<td>SCIENCE</td>
<td>15,957</td>
</tr>
<tr>
<td>JAMA (Journal of the American Medical Association)</td>
<td>14,109</td>
</tr>
<tr>
<td>The Chronicle of Higher Education</td>
<td>25,151</td>
</tr>
<tr>
<td>New England Journal of Medicine</td>
<td>33,600</td>
</tr>
</tbody>
</table>

**Changing Bailey/Howe Circulation Patterns**

In-person circulations have declined steadily from 121,655 in 2010 to 78,522 in 2016, but usage of e-books and streaming media are nearly double that of physical items.

**78,522**

Physical book & DVD circulations

**142,247**

E-book & streaming media usages

**November 2015**

The Spirit Catches You

Extensively researched exhibits at the Dana Medical and Bailey/Howe libraries inspired by UVM’s 2015 First-Year Read shared the science of epilepsy and research by UVM faculty who are working with local new American and immigrant communities.
ON THE FRONTLINE WORKING
WITH STUDENTS AND FACULTY

Liaison librarians at the Bailey/Howe and Dana Medical libraries are on the frontline working with students and faculty. Liaison librarians, many of whom have subject expertise through an additional degree or work experience, collaborate closely with faculty and students in their assigned departments and colleges in support of teaching, learning, and research.

December 2015

It was the busiest day of the year at Bailey/Howe Library on December 7, with 7,500 visits as students completed final assignments before the last day of classes.

IN-DEPTH ASSISTANCE SUPPORTS STUDENTS AND FACULTY

Librarians at Bailey/Howe Library work by appointment with students who need research assistance with course-related papers or assignments. They meet one-on-one or with small groups and can discuss focusing a research topic, identifying and evaluating sources, searching library resources effectively, and using citation management tools. Librarians also meet with graduate students and faculty to assist with their research needs. This service complements the course-related library instruction many students receive and the point-of-need, immediate service that is available at the reference desk.

MEDICAL LIBRARIANS FOSTER SUCCESS

Health sciences librarians focus on student fluency in the competencies of formulating clinical questions, and locating evidence from electronic resources for patient care. In 2016, librarians presented in 90 sessions within credit courses in the Colleges of Medicine and Nursing and Health Sciences and in Medical Center Graduate Medical Education. Librarians developed session content in collaboration with course faculty and tied retrieval and evaluation of knowledge resources to specific educational goals for success in each course. Competence in finding and evaluating evidence-based information sources is essential for clinical knowledge and patient-care decision-making skills in medical and health sciences education.

“I HAD THE OPPORTUNITY TO OBSERVE LIBRARIAN NANCY BIANCHI IN ACTION WITH A SMALL GROUP OF FIRST-YEAR DPT STUDENTS AS SHE GUIDED US THROUGH A COMPREHENSIVE SEARCH PROCESS. HER GUIDANCE RESULTED IN A SUCCESSFUL LEARNING EXPERIENCE FOR ALL INVOLVED AND THE STUDENTS FELT QUITE ACCOMPLISHED AS THEY WENT ON TO FIND NEEDED REFERENCES FOR THEIR SPECIFIC PROJECT.”

Barbara Tschopp, DPT, PhD. Director
Doctor of Physical Therapy Program

RICH ACADEMIC PARTNERSHIPS IN BAILEY/HOWE

Information and instruction librarians partner regularly with initiatives housed in Bailey/Howe—the Center for Teaching and Learning, Writing Centers, Writing in the Disciplines, and Foundational Writing and Informational Literacy. Library faculty have collaborated with these programs by co-teaching in support of faculty teaching and research, referring students between writing and research consultation services, and co-presenting at conferences and co-authoring papers. This growing model of academic partnership has already garnered national attention.

SUPPORTING COLLABORATION

In 2012, the Bailey/Howe Library expanded to ten group study rooms to accommodate the growing demand for collaborative learning and group assignments. Students use these spaces to practice presentations, plan for group assignments, meet in small groups with faculty, and video conference with outside groups. Each room is equipped with a computer monitor for group viewing, a computer with production software and tools, a large table with plugs and data jacks, a white board for brainstorming, and an intercom for technology troubleshooting and reminders.

BAILEY/HOWE GROUP STUDY ROOMS

2016

10,992 TOTAL BOOKINGS

3,713 UNIQUE USERS

APRIL AND NOVEMBER are the busiest months for consultations, as students prepare for final research assignments.

46 percent of all CONSULTATIONS LAST LONGER THAN 45 MINUTES.
OPEN ACCESS FOR FACULTY AND STUDENT SCHOLARSHIP

ScholarWorks @ UVM serves as the institutional repository of the University and provides an open access venue for faculty and student research. Academic libraries around the world are contributing to the open access movement by helping to make research available free of charge to scholars anytime, anywhere.

Launched in October 2013, ScholarWorks @ UVM has grown to include over twenty collections, including student dissertations and theses, public health projects, historic botanical research, occasional papers on Vermont history and policy, and more.

“THERE HAVE BEEN PEER-REVIEWED STUDIES DONE ABOUT THE FACT THAT OPEN ACCESS HELPS PEOPLE SEE YOUR WORK AND CITE IT. A EUROPEAN COMMISSION REPORT FOUND A 40% CITATION ADVANTAGE FOR FREELY-ACCESSIBLE PAPERS. IN MY EXPERIENCE, I FEEL LIKE MAKING MY WORK OPEN HASN’T HURT MY CAREER AND, CONVERSELY, IT’S HELPED PEOPLE SEE MY WORK AND FIND ME AND WANT TO COLLABORATE.”

Dr. Meredith Niles, Assistant Professor, UVM Food Systems program

IMPACT

CITATION RATES

Articles published in the student journal The Vermont Connection have experienced increased citation rates since the deposit of articles in ScholarWorks @ UVM. The journal had been previously hosted on the UVM Higher Education and Student Affairs website. Google Scholar reports that 12 articles from that journal have been cited a total of 106 times. Tellingly, 45 of those citations appeared in the last year, since The Vermont Connection moved to ScholarWorks @ UVM. scholarworks.uvm.edu/tvc

REACHING PRACTITIONERS

One of the more popular dissertations in ScholarWorks @ UVM is “Students’ Understanding of Quadratic Functions: Learning from Students’ Voices” by Jennifer Parent. Readers have downloaded this dissertation almost 400 times since it was deposited in 2015. Though Google Scholar reports no citations for this thesis yet, it may be finding an audience among teachers of mathematics. Downloads are reported from the Georgia Department of Education, the Los Angeles Unified School District, and Montgomery County Public Schools. scholarworks.uvm.edu/graddiss/376

TOP 10 ORGANIZATIONS DOWNLOADING THE MOST DOCUMENTS IN 2016

1. University of Vermont 5705
2. North Carolina Research & Education Network 215
3. Medical Center Hospital of Vermont 192
4. Vermont Department of Information & Innovation 189
5. University of Minnesota 154
6. New York University 137
7. Rutgers University 135
8. Harvard University 124
9. Michigan State University 123
10. Ohio State University 119

SEE MORE AT SCHOLARWORKS.UVM.EDU

January 2016

Thinking Locally, Acting Globally: Global Health at the University of Vermont, a Dana Medical Library exhibit, highlighted global health initiatives at UVM – from nursing study abroad programs, to medical student exchanges, to missions to prevent the spread of disease.

INTERNATIONAL DOWNLOADS FY 2016

CONTENT SHARED

204,732 downloads between May 2013 and June 2016
Among the manuscript collections we have acquired are the Grace and Harold Pugh Papers, documenting the early days of aviation and the development of the Burlington Municipal/International Airport, including the Fli-Rite Flying School.

During academic year 2016 we purchased a number of significant books for the Rare Book collection. Pietro Mattioli's *Commentarii in libros sex Pedacii Dioscoridis* (1554) adds to our strong collection of 16th-century illustrated herbals, while two new incunabula (books printed before 1501) support medieval studies at UVM.

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As part of her spring semester internship in Special Collections, senior Perri Moreno created a new exhibit, *Holocaust Stories*. The exhibit included powerful accounts of Holocaust experiences told in selections from artists' books that Special Collections acquired to support the work of UVM's Carolyn and Leonard Miller Center for Holocaust Studies, which marked its 25th anniversary.

Special Collections and University Archives houses Vermont research materials, rare books, and records of the University and its students. The Center for Digital Initiatives is a repository for digital collections based on our collections and those of collaborating libraries around the state.
On any given day, UVM Libraries faculty and staff are interacting with hundreds of students, faculty, and partners around the state of Vermont and beyond. Our collections and services help us connect others to a world of knowledge.
Librarians at the University of Vermont serve as twelve-month, non-tenured faculty members. Although about 80-85% of library faculty workloads are devoted to advancing the University’s educational mission and implementing library operations, library faculty members make significant contributions to scholarship and research in library science, information science, pedagogical studies, and interdisciplinary fields. In FY2016, approximately 25 out of 30 library faculty presented research findings via publications, conferences, and other scholarly venues.

**SCHOLARLY WORKS**

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**HIGHLIGHTS**

A Key Resource on Zika for Science and Medical Librarians

In this peer-reviewed article, Dana Medical Library Associate Professor Fran Delwiche delved into the Zika virus, covering its virology, transmission, symptoms, prevention, and current efforts to develop a vaccine. This extensive coverage was designed to help science librarians gain more in-depth knowledge on this complex and timely issue.

An Important New Voice on Library Collections
Collection Development Librarian and Library Assistant Professor Alana Verminski presented at the Charleston Library Conference, the premiere conference for book and serials library acquisition issues. Her paper focused on increased collaboration at the University of Vermont between collection building and the libraries’ academic liaison program. In 2017, her book *Fundamentals of Electronic Resources Management*, with co-author Kelley Marie Blancat, was published by the American Library Association.

Digging Deeper on Faculty and Scholarly Metrics at UVM
Library Assistant Professors Dan DeSanto and Aaron Nichols surveyed University of Vermont faculty about their knowledge, use, and opinions of scholarly metrics. The results showed a variety of relationships to metrics and some clear opportunities for libraries to provide support. Open-ended questions revealed the complex ways in which UVM faculty view scholarly metrics across disciplines, as well as their concerns about metrics as a mechanism to assess the value of scholarship. The study resulted in both a campus-wide report and paper acceptance in the peer-reviewed journal *College & Research Libraries*.

May 2016

A National Library of Medicine Traveling Exhibition at the Dana Medical Library, *Pick Your Poison: Intoxicating Pleasures and Medical Prescriptions*, explored factors that shaped changing definitions of some of our most potent drugs.