Expanding the Universe

BY VICTOR MEDINA DEL TORO ’17

When I was chosen as the inaugural Joseph O’Donnell intern more than two years ago, I had no idea what curating an exhibition would entail. I had no idea that most of my research would never make it into the project, or that editing would take over a hundred hours, or that there would be three versions of the same essay. In fact, it was not until the end of the first summer that I realized I would either hand the project over to someone else or continue the work myself. On the eve of Expanding the Universe’s installation in the Sharpless Gallery, I can honestly say that choosing to carry on has been the most rewarding experience of my time at Haverford. And while the exhibition is my own intellectual work, it would have been impossible without constant guidance and support.

One of the challenges I faced as a writer was developing the narrative based on the materials available in the archive and making it accessible to a wide audience. A team of advisors kept me on track by asking questions about the narrative. Darin Hayton, professor of the history of science, suggested that I begin by considering why Haverford, as a small liberal arts college, had built an observatory in the mid-19th century. The project began with this idea but changed drastically with the dozens of iterations that passed between me and Sarah Horowitz, head of Quaker & Special Collections. The narrative went from the development of a professional astronomer, to that of a laboratory space, and to that of an instrument maker before finally settling on the development of the telescope.

Amidst the intellectual development of

(continued on p. 5)

From the Librarian

BY TERRY SNYDER

In Fall 2016, the Board of Managers accepted the Architect Selection Committee’s recommendation to retain Mark Freeman and Todd Schafer from the firm of Perry Dean Rogers | Partners Architects for the renovation of Magill Library and the Quaker & Special Collections Library. Our kickoff meeting in December 2016 generated great excitement and anticipation as we worked collaboratively with campus stakeholders to review the concept plan developed with Ann Beha Architects in 2014. Several months and multiple campus visits later, we have refined our program through a pre-concept stage, and we are now in the schematic phase.

The planning committee includes members from the student body, the faculty, administration, the Board of Managers, Instructional and Information Technology Services, and the Libraries. Not only have campus groups met with the architects, but interim planning and communication led by the Libraries’ Student Advisory Committee as well as by the Faculty Advisory Committee continues to ensure community engagement at all stages.

(continued on p. 2)
Planning continues in earnest, not only for the future improvement to the library, but also in terms of managing library services during the construction period.

We expect to vacate the building between the Fall 2017 and Spring 2018 semesters and move through the construction process without phasing the renovation work. When the students return to campus in January 2018, they will find temporary library services installed in Founders Great Hall, Founders Common Room, and a range of logical satellite spaces including the White Science Library, the Union Music Library, and a re-commissioned computer lab in Roberts Hall. Those offices holding events and other functions in the Great Hall have worked with our Events Planning office to identify alternate spaces during the construction period.

The current plan to vacate the library will allow the College to realize the goals of a transformational library more economically, more safely, and—importantly—more quickly than our original concept plan determined. Years of planning will soon realize exciting possibilities for the College in advancing the excellence that is the hallmark of Haverford. We will have a beautiful and beautifully-functioning building, to be named in honor of lead donor Howard Lutnick ’83, that supports the cutting-edge programming of the Libraries, programs that support 21st Century research, teaching, and learning. We are very excited for the future!

Terry Snyder is Librarian of the College

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**HathiTrust: Preserving the Cultural Record**

*BY NORM MEDEIROS*

The HathiTrust was founded in 2008 by the University of California system and institutions comprising the Big Ten Academic Alliance in an effort to create a reliable archive of digitized books. This ambitious goal is being achieved robustly as the federation has grown to over 120 members, Haverford among them. In the roughly ten years since its founding, the HathiTrust digital repository has expanded from an initial collection of 2 million volumes to more than 15 million today. Of this corpus, 5.7 million volumes are publicly-accessible. As a HathiTrust member, Haverford enjoys the added benefit of PDF downloads to this collection of public domain materials. In addition, Haverford’s Office of Access and Disability Services can provide digital versions of in-copyright books from the HathiTrust collection to the students it supports.

While these member benefits are modest, Haverford’s impetus for joining HathiTrust was to support the preservation of the cultural record. Through our membership, we are contributing financially, and soon materially, to this mission.

To the latter point, members are encouraged to contribute digital copies of unique materials to the repository for archiving and access (where permissible). Should a time come when such rare books are effectively unavailable to scholars in print form, these high-quality digital surrogates can provide access to their contents and perhaps their materiality through print-on-demand production.

To mitigate the risk of losing access to rare print volumes while also complementing its digital holdings, HathiTrust has recently announced a shared print program that seeks to ensure access and preservation of their material through print-on-demand publication.

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**Fenghuang Landscape and Miao Culture: Photos by Bode Wang**

*BY BRUCE BUMBARGER*

Visitors to Magill Library’s Study Gallery this spring were treated to a unique glimpse into the world of the Miao people of southwest China. Comprising the largest cultural group in Fenghuang County in Hunan Province, the Miao have for several centuries lived among and been shaped by the region’s mountainous peaks and broad river valleys, leading to the development of the distinct cultural and religious identity highlighted in this exhibition. Organized by Professor Yonglin Jiang, chair of the East Asian Languages and Cultures program at Bryn Mawr College, the exhibition featured the photographs of Bode Wang, a Miao scholar who advocates for the appreciation and preservation of Miao traditional society. Along with our offering of 24 images, exhibitions of photos by Wang were running concurrently at venues at Bryn Mawr and Swarthmore Colleges, giving visitors an opportunity to view some 70 images that document the range of the Miao experience. Wang’s photos captured architectural responses to the area’s environment, ranging from stone structures clinging to the side of steep mountains to the ubiquitous stilts structures built along the region’s wide watercourses; glimpses of the rich Miao religious traditions grounded in ancestor worship, animism, and shamanism; a local marketplace; and the preparations for and celebration of a traditional Miao wedding.

Bruce Bumbarger is Library Conservator

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**Physical Computing in the Libraries**

*BY ANDY JANCO*

This summer, Haverford’s Magill Library will host a student intern who will study the interactions between physical and digital systems. This may include sensors, electronic controllers, embedded computing, internet-connected devices and other technologies that make the physical world legible to digital systems. Additionally, these technologies allow programs to act in the material world through control systems and robotics. The student intern will investigate recent developments in cyber-physical systems and experiment with potential applications of these technologies in the Libraries and the College more generally.

Through the internship, the student will work with librarians in Digital Scholarship to develop a variety of connected devices for interactive exhibits and displays. This may include motion sensors, speech, or facial recognition. Recent developments in artificial intelligence open the potential for a station that students can use to create machine-readable text from books. Just hold the book under the camera and send the scanned text to your preferred device. The student could also work with Ibeacons (tiny Bluetooth transmitters) to configure a mobile application that directs users to books in the library, or perhaps develop an app for students to check out books with their phone. Building on student interest, projects could potentially involve wearable electronics, augmented or virtual reality, 3D modeling, robotics, and related technologies.
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Bruce Bumbarger is Library Conservator.
DataRescue Haverford

BY MIKE ZARAFONETIS

On a warm and sunny Saturday in late February, Haverford students, faculty, and staff along with their Tri-Co counterparts and other community members gathered in Magill Library to identify and preserve federal climate and environmental science data. “DataRescue Haverford” was one of an ongoing series of similar events held across the country attended by people concerned about the long-term viability of federally funded research on the Web. For those alarmed by the removal of some research data and other changes to the federal government’s web presence in January and early February, these events provide ways for citizens to get involved with data preservation and to learn about the types of research data that government funding helps produce.

DataRescue events include two main paths to participation: a “seeding” path that identifies information on the Web for archiving, and a “harvesting” path that captures the data that exists in formats that cannot be “seeded.” Working with the Environmental Humanities at the University of Pennsylvania, DataRefuge holds the data captured at DataRescue events to ensure that climate and environmental research data remains publicly available. It is not entirely clear what the future holds for the availability of this data in its original form. Many are concerned about the public statements made by the current administration regarding climate change and federal funding for research. It is the mission of libraries and librarians to preserve and make available the public record. Projects like DataRefuge have started the difficult problem of capturing data that could not be crawled for the Internet Archive. About 20 librarians, coders, and researchers worked together to closely examine uncrawlable data, make recommendations for harvesting it, and write programs that could capture it. Once the data was harvested, librarians packaged, formatted, and described the files to ensure their preservation and submitted them to the DataRefuge, a project of the Program for Environmental Humanities at the University of Pennsylvania.

DataRefuge holds the data captured at DataRescue events in formats that cannot be “seeded.” Those who worked on the “harvesting” path tackled the difficult problem of capturing data that could not be crawled for the Internet Archive. About 20 librarians, coders, and researchers worked together to closely examine uncrawlable data, make recommendations for harvesting it, and write programs that could capture it. Once the data was harvested, librarians packaged, formatted, and described the files to ensure their preservation and submitted them to the DataRefuge, a project of the Program for Environmental Humanities at the University of Pennsylvania.

Mike Zarafonetis is Coordinator for Digital Scholarship and Services

Broken Treaties, Forgotten Archives: An Exhibit and Digital Scholarship Project

BY JOHN HYLAND AND SARAH HOROWITZ

During the Fall 2016 semester, students in John Hyland’s environmental humanities-based first-year writing seminar, “Ecological Imaginaries: Identity, Violence, and the Environment,” interrogated how imaginings of the environment are inseparable from issues of social justice. As part of the class, they collectively undertook an archival project in Quaker & Special Collections, spending significant time studying materials in the Theodore Brinton Hetzel papers. Hetzel was a Haverford alum who belonged to the Indian Committees of the American Friends Service Committee and Philadelphia Yearly Meeting of Friends. Along with other Philadelphia Quakers such as Walter Taylor, Hetzel served on the Friends Kinzua Dam Project, which fought to stop the construction of a 179-foot dam on the Allegheny River in Warren, Pennsylvania. The dam, which was completed in 1964, flooded the sacred grounds of the Seneca Nation of Indians, disposing of their lands that had been granted to them by the 1794 Pickering Treaty with the U.S. Government.

Working closely with Special Collections and Digital Scholarship librarians, students engaged in a multimodal project which included selecting materials from special collections for digital display and analysis. The project resulted in three versions of the exhibit that has been—like so many stories of dispossession—too easily forgotten. They completed digital annotations using Neanline, constructed a timeline, and composed labels to accompany and introduce the archival items while also producing prospectuses, annotated bibliographies, and articles. The project gave students the opportunity to work in different genres of writing, moving beyond the classroom to include writing for the public in an exhibition context and considering the rhetorical contexts of digital platforms. By focusing on environmental justice and indigenous rights in the case of the Kinzua Dam, this project gave a historical perspective on current events such as the fight to stop the Dakota Access Pipeline at the Standing Rock Reservation in North Dakota.

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John Hyland is Writing Fellow and Visiting Assistant Professor of Writing

Sarah Horowitz is Curator of Rare Books & Manuscripts and Head of Quaker & Special Collections

Theodore Brinton Hetzel papers on display as part of the Broken Treaties exhibition

Expanding the Universe

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Working closely with Special Collections and Digital Scholarship librarians, students engaged in a multimodal project which included selecting materials from special collections for digital display and analysis. (see haverford.edu/broken treaties) and curating a public exhibition in order to tell the story of a fight for indigenous rights, sacredness, and environmental justice

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Expanding the Universe (continued from p. 1)
Connections

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DataRescue events include two main paths to participation, a “seeding” path that identifies information on the Web for archiving, and a “harvesting” path that captures the data that exists in formats that cannot be “seeded.” Working with the Environmental Humanities, Data and Governance Initiative, about 25 seeders at the Haverford event identified and seeded links on two government agency websites, the National Oceanic and Atmospheric Administration and the Department of Energy. Each seeder submitted web addresses to the End of Term Archive, a project of the Internet Archive that seeks to capture the web presence of federal agencies at the end of each Presidential term through programs called “crawlers.” Crawlers can capture a good deal of the information on a web page, including the text, images, and links to other pages. They cannot, however, read interactive graphs, maps, databases, nor can they mimic user interactions like mouse clicks or filling out web forms. Seeders identified these uncrawlable links for further examination.

Those who worked on the “harvesting” path tackled the difficult problem of capturing data that could not be crawled for the Internet Archive. About 20 librarians, coders, and researchers worked together to closely examine uncrawlable data, make recommendations for harvesting it, and write programs that could capture it. Once the data was harvested, librarians packaged, formatted, and described the files to ensure their preservation and submitted them to the DataRefuge, a project of the Program for Environmental Humanities at the University of Pennsylvania. DataRefuge holds the data captured at DataRescue events to ensure that climate and environmental research data remains publicly available. It is not entirely clear what the future holds for the availability of this data in its original form. Many are concerned about the public statements made by the current administration regarding climate change and federal funding for research. It is the mission of libraries and librarians to preserve and make available the public record. Projects like DataRefuge have started larger conversations about the ways that libraries can continue this work and expand it to other types of data. Haverford Libraries will continue to be an active participant in this conversation.

Mike Zarafonitis is Coordinator for Digital Scholarship and Services

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Expanding the Universe

(continued from p. 1)

the narrative, I forget that not everyone followed the same logical leaps that led me to the telescope. The problem was distilling the narrative from an academic to a public piece without diluting the argument. The solution was creating three versions of the same narrative: one is academic, one is the catalog, and one is on the walls. Three dimensionally, Bruce Bumbarger and Mike Zarafonitis taught me how a historical narrative could exist in the gallery. I knew how I wanted the materials arranged to drive the narrative, but I had no idea how to present them. Bruce was there to explain how the width of a panel, the spacing between lines of text, and the number of panels made the materials function. Mike was there to help me think of the narrative in terms of interactive pieces that could help the audience visualize the concepts that could not easily be explained.

Although the final products will be seen at the Shapless Gallery and online, the changes over time will not. As excited as I am to have Expanding the Universe installed, I am more proud of having completed the curatorial process. Eventually the final product will be taken down, but learning is what made it a meaningful endeavor to me and I wanted to share that experience here.

Victor Medina Del Toro ’17 is a History major
Libraries Conduct Book Use Survey

> BY CAROL HOWE AND MIKE PERSICK

The Libraries conducted a book use survey for faculty and students during February. The survey was created by Carol Howe, Science Librarian, Norm Medeiros, Associate Librarian, and Mike Persick, Head of Acquisitions & Serials.

Our goal was to gather information about our library users’ preferences for the format (print book vs. e-book) of scholarly monographs provided by the library that are used for class work and research. As we prepare to interpret the results, we hope our conclusions can inform how we decide to spend our limited monographs budget as related to format. Suspecting that certain demographic and geographic data would influence a user’s preferences, we asked students for their year, major, and preferred study location, as well as demographic and geographic data. One hypothesis is that while it would be more appropriate to collect print books for certain academic disciplines, electronic versions are preferable for others. We are also interested to see if there are users who show a strong format preference, such as avoiding e-books in all cases, and if so what their demographics might be. Ultimately, our goal is to inform our spending so we deliver the best resources in the best format for our user community.

We employed the user-friendly software Qualtrics to develop the survey. Each question, as well as the title of the survey itself, was carefully crafted. Even though we were especially interested in attitudes towards e-books, we titled the survey “Book Use Survey” so as not to influence participants’ answers. Regarding survey questions, we only included those with a specific purpose. This is an example of one scenario we presented to students:

It is 7 p.m., and you have a research paper due at 9 a.m. tomorrow. You find a book in Tripod that seems perfect to finish your paper. It’s available as an e-book at Haverford and in print at Bryn Mawr. Which of the following are you most likely to do? If a student who is desperate to finish a paper by 9 a.m. the next morning indicates that she would travel to Bryn Mawr to use the print book instead of using the e-book at Haverford and at Bryn Mawr. Which of the following are you most likely to do?

As we plan for the renovation of the Magill Library, the student intern may consider the possible roles of connected devices in our new space. This could include smart thermostats for energy efficiency or proximity sensors for patron services. In addition to human interaction with devices, one of the key aspects of the cyber-physical systems is communication between devices. How might connected systems on campus coordinate and share data in beneficial ways? Artificial intelligence can be used to analyze sensor and controller data to increase energy productivity and customize user experiences.

The American Academy of Sciences recently held a workshop to discuss what they are calling the “Fourth Industrial Revolution,” involving artificial intelligence, virtual and augmented reality, and the Internet of Things. Together, these digital-augmented systems are transforming industry and manufacturing. How might concepts such as the “Fourth Industrial Revolution” or “Industry 4.0” apply to activities locally on campus? There’s a wide range of possibilities, and we look forward to working to better understand these innovations and to test their relevant applications here at Haverford.

Mike Persick is Head of Acquisitions & Serials

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Carol Howe is Science Librarian
**Staff News & Notes**

Sarah Horowitz, Curator of Rare Books & Manuscripts and Head of Quaker & Special Collections, presented “Toward a User-Centered Reading Room” as part of a Delaware Valley Archivists Group panel on reading room policies.

Krista Oldham, College Archivist/Records Manager, co-authored The Arkansas Delta Oral History Project: Culture, Place and Authenticity, which was published by Syracuse University Press in 2016. The book provides a detailed account of a five-year community-based/service-learning initiative that began with a simple, straightforward question for students in east Arkansas high schools: What do you want to write about? Krista presented about records management buy-in at the Charleston Conference about the 2017 National History Day Philly Chapter Spring Seminar. Krista also wrote a dissertation about Marcel Proust, which received an M.A. from the University of Notre Dame, where he has an M.S.I. from the University of Michigan and a Ph.D. from Indiana University Bloomington. He is also part of the Digital Scholarship team that works on creating and maintaining digital projects in collaboration with faculty and students. Before coming to Haverford, he was the English Literature librarian at Indiana University Bloomington. He has an M.S.I. from the University of Michigan and a Ph.D. from the University of Notre Dame, where he focused on trans-Atlantic modernism and wrote a dissertation about Marcel Duchamp and Gertrude Stein. In his spare time, he enjoys cooking, reading, and exploring Philadelphia.

**NEW STAFF:**

Terry Snyder, Librarian of the College, presented a public lecture entitled, “The Indigent Widows and Single Women’s Society: a 19th Century Model of Elder Care,” at the Historical Society of Pennsylvania.

Julie Summerfield joined the Libraries in March as the Collection Management & Metadata Services Assistant. In her previous life, she was a long-time independent bookseller, spending most of her career as Manager of the Haverford College Bookstore. After a brief detour as a children’s bookseller, she is thrilled to return to the Haverford community and her many friends, both old and new. Julie is enjoying the fact that she is able once again to play a part in providing academic materials to students, faculty, and scholars of all stripes. She graduated from the University of Pennsylvania with a B.A. in English. When she’s not herding cats with her partner, Rob Haley, she can be found pore over maps of England and Wales to plan their next hiking (and eating) trip.

Semyon Khokhlov came on board in February as the Literature & Languages Librarian supporting the departments of English, Spanish, French, and Comparative Literature. He is also part of the Digital Scholarship team that works on building and maintaining digital projects in collaboration with faculty and students. Before coming to Haverford, he was the English Literature librarian at Indiana University Bloomington. He has an M.S.I. from the University of Michigan and a Ph.D. from the University of Notre Dame, where he focused on trans-Atlantic modernism and wrote a dissertation about Marcel Duchamp and Gertrude Stein. In his spare time, he enjoys cooking, reading, and exploring Philadelphia.

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**BY CAROL HOWE AND MIKE PERSICK**

The Libraries conducted a book use survey for faculty and students during February. The survey was created by Carol Howe, Science Librarian, Norm Medeiros, Associate Librarian, and Mike Persick, Head of Acquisitions & Serials. Our goal was to gather information about our library users’ preferences for the format (print book vs. e-book) of scholarly monographs provided by the library that are used for class work and research. As we prepare to interpret the results, we hope our conclusions can inform how we decide to spend our limited monographs budget as related to format. Suspecting that certain demographic and geographic data would influence a user’s preferences, we asked students for their year, major, and preferred study location, and faculty for their department and residential proximity to campus. One hypothesis is that while what would be more appropriate to collect print books for certain academic disciplines, electronic versions are preferable for others. We are also interested to see if there are users who show a strong format preference, such as avoiding e-books in all cases, and if so what their demographics might be. Ultimately, our goal is to inform our spending so we deliver the best resources in the best format for our user community.

We employed the user-friendly software Qualtrics to develop the survey. Each question, as well as the title of the survey itself, was carefully crafted. Even though we were especially interested in attitudes towards e-books, we titled the survey “Book Use Survey” so as not to influence participants’ answers. Regarding survey questions, we only included those with a specific purpose. This is an example of one scenario we presented to students: It is 7 p.m., and you have a research paper due at 9 a.m. tomorrow. You find a book in Tripod that seems perfect to finish your paper. It’s available as an e-book at Haverford and in print at Bryn Mawr. Which of the following are you most likely to do? If a student who is desperate to finish a paper by 9 a.m. the next morning indicates that she would travel to Bryn Mawr to use the print book instead of using the e-book that is readily available, that suggests that she prefers print under any circumstances. That is the type of information we wanted to tease out of the responses.

In order to increase participation, we stated in a preliminary email that one student participant would win an iPad mini. We received a total of 401 student and 87 faculty responses. Stay tuned for more information on our findings. We plan to evaluate the results and provide a comprehensive report by the start of the fall semester.

Carol Howe is Science Librarian

Mike Persick is Head of Acquisitions and Serials

**Physical Computing in the Libraries**

As we plan for the renovation of the Magill Library, the student intern may consider the possible roles of connected devices in our new space. This could include smart thermostats for energy efficiency or proximity sensors for patron services. In addition to human interaction with devices, one of the key aspects of the cyber-physical systems is communication between devices. How might connected systems on campus coordinate and share data in beneficial ways? Artificial intelligence can be used to analyze sensor and controller data to increase energy productivity and customize user experiences.

The American Academy of Sciences recently held a workshop to discuss what they are calling the “Fourth Industrial Revolution,” involving artificial intelligence, virtual and augmented reality, and the Internet of Things. Together, these digital-physical systems are transforming industry and manufacturing. How might concepts such as the “Fourth Industrial Revolution” or “Industry 4.0” apply to activities locally on campus? There’s a wide range of possibilities, and we look forward to working to better understand these innovations and to test their relevant applications here at Haverford.

Andy Janco is Digital Scholarship Librarian

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preservation to physical volumes represented in the digital repository. While not the first shared print initiative in the United States, Hathi’s will likely be the largest given the size and make up of its membership. Haverford is one of only a dozen liberal arts colleges who are HathiTrust members; the vast majority of members are research universities. Haverford has agreed, along with our Tri-College partners and fellow HathiTrust members Bryn Mawr and Swarthmore, to join this important shared print program.

While the digital repository is its premiere product, HathiTrust pursues additional programmatic areas beneficial to the wider library community. The copyright review branch of HathiTrust investigates publisher adherence to requirements regarding copyright renewal and branding. Such reviews have resulted in more than 300,000 volumes once thought to be under copyright protection coming into the public domain. A second program of note is the Research Center, which facilitates researcher analysis of the HathiTrust corpus through text mining and related means.

To learn more about HathiTrust and search the catalog of its holdings, please visit hathitrust.org.

Norm Medeiros is Associate Librarian of the College & Coordinator for Collection Management and Metadata Services