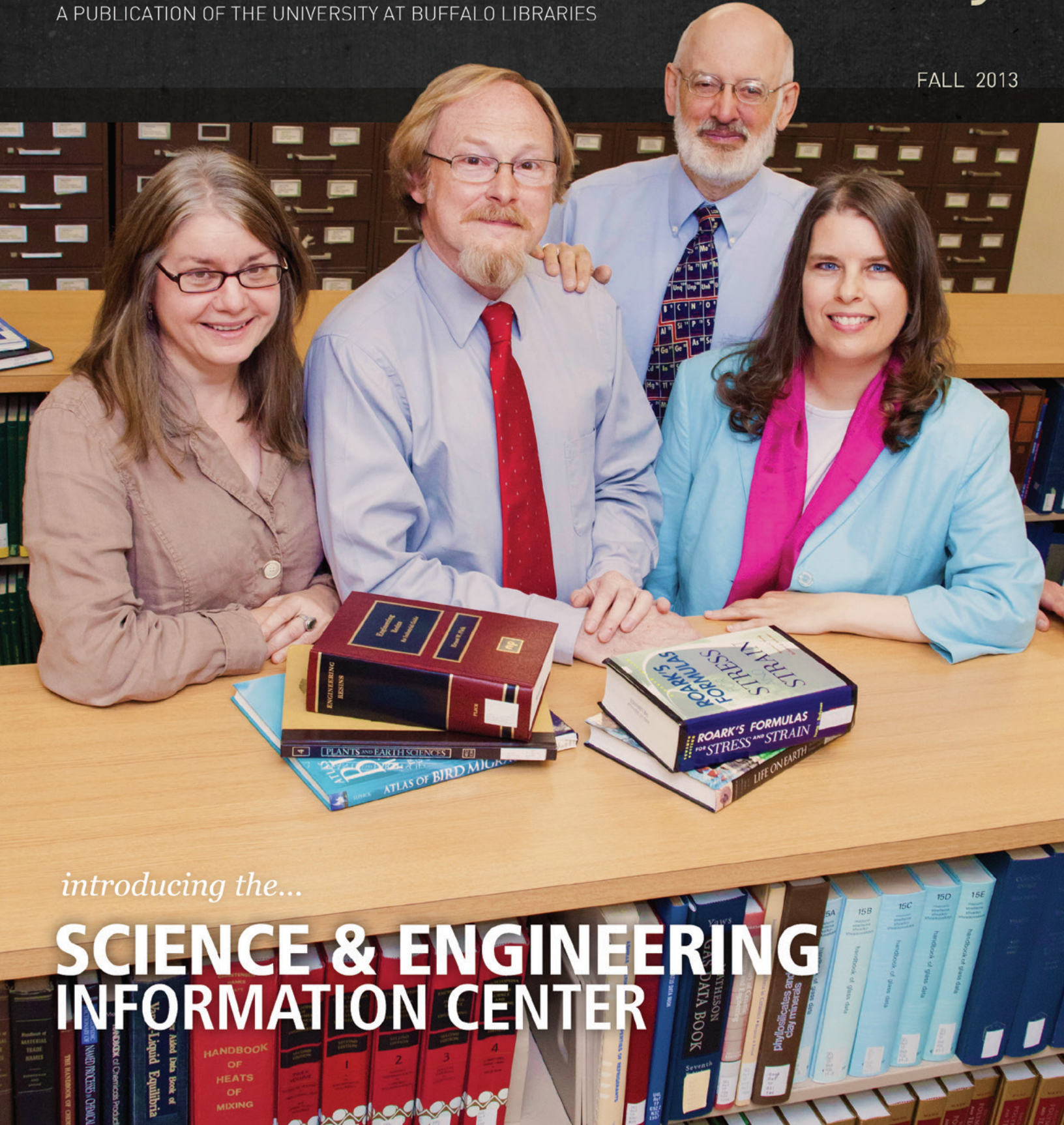


UB LIBRARIES today

A PUBLICATION OF THE UNIVERSITY AT BUFFALO LIBRARIES

FALL 2013



introducing the...

SCIENCE & ENGINEERING INFORMATION CENTER

UB Libraries Today is published by the University at Buffalo Libraries for alumni, faculty, staff, students and friends.

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DID YOU KNOW?



Wilson Greatbatch

One of the first programmable cardiac pacemakers, made in 1968, is displayed in the Science & Engineering Information Center. It's part of a permanent exhibit celebrating the remarkable achievements of local inventor and engineer, Wilson Greatbatch.



Dear Friends,

The University Libraries' Science & Engineering Information Center celebrates our commitment to providing resources that advance research, teaching and student success, as well as our commitment to serving both local and global communities. Introduced at the beginning of the fall 2013 semester in response to the need for more dynamic research and study space in the University Libraries, the Center is a collaborative, open learning space that reflects the digital transformation of the information discovery and delivery process in engineering and the sciences.

We provide details of the newly-launched Center in this issue of *UB Libraries Today*, and highlight the Center's role in supporting the academic success of our students. The story of UB aerospace engineering student Nathan Guterry (2014) is a story of such success. Nathan was awarded the 2013 Undergraduate Prize for Library-Supported Research for his project, "Microgravity Characterization of Zirconia Monolithic Electrokinetic Micropumps," an investigation of electrokinetic fluid transport under near-zero gravity conditions. The annual \$500 prize, sponsored by the University Libraries in cooperation with UB's Center for Undergraduate Research and Creative Activities, recognizes students who produce significant academic inquiry requiring the use of the Libraries' information resources and collections. The winning project was selected for inclusion in the 2013 NASA Microgravity Flight Program. Luis A. Colón, Ph.D., of UB's Chemistry Department, served as faculty mentor for the project, and numerous digital and print resources provided by the Libraries supported the research of Nathan and his team. We are proud of the Libraries' role in this impressive research project!

In this issue of our newsletter, we also draw attention to the expertise provided by our science and engineering subject librarians who assist users in navigating a rapidly-changing scientific information landscape. We introduce biology librarian Fred Stoss; provide a glimpse of the cartographic resources available in the Libraries' extensive Map Collection; offer a view of the Science and Engineering Information Center's recent inaugural event; and profile former Erie County legislator Joan Bozer. Ms. Bozer's recent gift to the University Archives reflects her long-standing interest in women's issues and her many years of service to the Western New York community. Such gifts are a wonderful reminder of the ways in which interest in and support for the University Libraries helps to ensure that we continue to advance scholarly research, enable lifelong learning, and achieve our vision of advancing intellectual discovery by connecting people with knowledge.

Thank you for your support of the UB Libraries!

Sincerely,



H. Austin Booth
Vice Provost for University Libraries
library.buffalo.edu/haboath

UPDATE

Endowment Grows for Frost Collection

Thanks to the generous support of friends, alumni, faculty, students and staff, the Poetry Collection has successfully raised more than \$15,000 as part of the Reichert Challenge Fund initiated this spring



Robert Frost photo from the Victor E. Reichert Robert Frost Collection.

by Dr. Jonathan Reichert. With the original challenge goal now exceeded, Dr. Reichert has matched these funds with a \$50,000 gift of his own to form a new endowment in support of the Poetry Collection's Victor E. Reichert Robert Frost Collection.

The annual proceeds from this endowment will fund future acquisitions of books, literary magazines and papers as well as a yearly Frost event, and we will continue to seek additional donations both now and in the future.

Anyone interested in contributing should please contact:

Donald Elick
Director of Development
(716) 881-8206
donelick@buffalo.edu

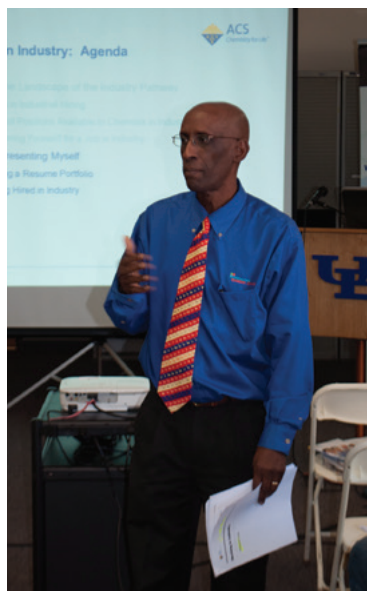
LIBRARY EVENT

ACS on Campus

ACS On Campus, an event sponsored by the American Chemical Society (ACS), the UB Chemistry Department, and the University Libraries, drew more than 130 undergraduate and graduate students, faculty and guests to the Science & Engineering Information Center on September 24, 2013.

Attendees participated in a day of networking and career-building activities that offered a behind-the-scenes look at the information needed to advance one's career.

Highlights included a presentation on scholarly publishing by Carsten Bolm, Associate Editor, *Journal of Organic Chemistry*; a session on writing effective grant proposals,



Patrick Gordon, ACS career consultant, leads resumé preparation workshop.

presented by Thomas C. Clancy from the ACS Office of Research Grants; an interactive workshop on resumé preparation given by ACS career consultant, Patrick Gordon; and a discussion on alternative careers in chemistry featuring representatives from industry, academia, and chemical librarianship.

Sincere thanks to the ACS for funding this program, and thanks also to our co-hosts, the UB Chemistry Department.



Welcome!

I am delighted to introduce the University Libraries Science & Engineering Information Center. Located on the second floor of the Oscar A. Silverman Library in Capen Hall, the Center offers visible evidence of the centrality of science and engineering at UB, and creates new opportunities for our librarians to interact with faculty, students, alumni and visitors. Study spaces reflect students' diverse preferences for individual and group learning, including an abundance of power for laptops, tablets and phones. Flexible teaching and event spaces create opportunities for librarians to offer onsite workshops and host events. Framed prints featuring the trees of New York State, prominent women scientists and engineers, and botanical images reinforce the science theme. Librarians' offices, natural light, plants and eye-catching exhibits complete the area.

The Center is a popular place for students to learn, study and challenge each other. On a recent afternoon, some students studied alone at tables or on comfortable chairs. Others worked quietly at public computers. Students at a group table participated in a heated discussion, using images from their laptops to make their points. A science librarian helped a student find information in the reference collection, while other librarians reached out to students and faculty online from their offices.

I encourage you to visit the Science & Engineering Information Center when you come to campus. With your support, we will achieve our vision of a central place with services and resources that bring people together to learn and grow.

With best wishes,

Margaret R. Wells
Director, Public Services & Arts & Sciences Libraries,
University Libraries
(716) 645-7744
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Introducing the...

SCIENCE & ENGINEERING INFORMATION CENTER

Science and engineering departments at the University at Buffalo are renowned for influential research, innovative teaching and attracting high caliber students. “The intellect, creativity, curiosity and work of my best students compares favorably against any institution in country,” asserts mechanical engineering professor, Dr. Abani Patra. Every year, UB science and engineering students prove this on the national and global stage by securing highly competitive internships in the public and private sectors, as well as winning international contests like the Knovel University Challenge which tests students’ scientific acumen and information retrieval skills with a series of questions that can be answered using the Libraries’ Knovel database, an online collection of over 1,000 science and engineering e-books.

The rate of change in science and engineering due to the continuous evolution and proliferation of information technologies requires the Libraries to anticipate developments in information science and act upon them. As a result, the University Libraries directly contributes to the quality of education of nearly 1,300 UB students majoring in physics, chemistry, geology, math, biology, and physical geography in UB’s College of Arts & Sciences, and over

An overhead view of the Science &
Engineering Information Center.
Photo: Lukia Costello



Students enjoy the Science & Engineering Information Center's light-filled study spaces. Photo: Lukia Costello

3,600 students enrolled in UB's School of Engineering & Applied Sciences.

To ensure UB students have the resources that meet their needs, the University Libraries recently upgraded space dedicated to engineering and the sciences. Months of planning and preparation culminated in the launch of the Science & Engineering Information Center at the start of the Fall 2013 semester. Located on the second floor of the Oscar A. Silverman Library in Capen Hall on UB's North Campus, the new Center provides an interactive space that integrates science and engineering information resources, library staff and services into a single location.

Within the Center, we have increased the number of spaces for students to read, study, work on group projects, browse new books and technical reports in science and engineering, and interact with library staff. In response to stu-

“Nancy knows exactly how to find pretty much anything. The absolute truth is that the quality of my work, because of Nancy’s assistance, was significantly enhanced.”

Dustin Muscato

2013 graduate of UB's electrical engineering program

dent requests, additional power sources were installed during the summer, making it easier than ever to charge laptops and other electronic devices, and the reconfigured space offers librarians an opportunity to work with science and engineering students and faculty in new and dynamic ways.

Instruction sessions, for example, can take place out in the open. To accommodate this, the Center's floor plan features a mix of furniture, seating, computers, and other equipment that can be easily rearranged for instruction, research consultations, and study spaces. One-on-one assistance and group instruction sessions, including research clinics on topics such as citation metrics, database and patent searching, data management, e-books, and bibliographic management software, can readily be tailored to meet specific information needs.

Our talented science and engineering librarians embody our belief that UB faculty and students deserve exemplary service and resources. These individuals have broad expertise in helping users locate information using the many specialized types of science and engineering literature, including standards, dissertations and theses, spectra, property data, and patents. Dustin Muscato, a 2013 graduate of UB's electrical engineering program, shared his thoughts about the valuable role of UB's subject librarians in the form of an email message about engineering librarian Nancy Schiller. "Nancy knows exactly how to find pretty much anything," says Muscato. "The absolute truth is that the quality of my work, because of Nancy's assistance, was significantly enhanced. The projects Nancy assisted me in locating information for – whether books or journals to study, or specifications and standards I needed during my design process – were given rave reviews by professionals in my field as being of the highest quality."

There are no typical reference questions in the Science & Engineering Information Center; everyone has a unique need. Questions range from the highly technical to what might strike some as highly whimsical – from what types of microgravity experiments NASA conducts on the space station to how one can determine the sex of a lobster. Our staff works closely with faculty



Photo: Nancy J. Parisi

Fred Stoss

by: Lauren Newkirk Maynard, Editor, University Communications

Fred Stoss, with his signature mustache and walleye tie, is a well-known name among library circles on the tiny Caribbean island of Aruba. He's also met former Vice President Al Gore several times. With degrees in biology, zoology and information studies, and nearly a decade of research in toxicology and environmental health, Stoss has dedicated his professional and personal life to sustainability research and environmental advocacy.

It all started, Stoss says, when he was growing up outside of Johnstown, N.Y., where he fished with his father and grandfather, and explored the outdoors in his "backyard" in the southern Adirondacks.

Stoss, associate librarian for the biological sciences, geology and mathematics, also remembers the first Earth Day in 1970, when he was a sophomore at Hartwick College studying the cross-disciplinary work of theologian and ecologist Joseph Sittler.

These early experiences shaped Stoss's future career. Today he is recognized as having an entrepreneurial streak in research, education and outreach. "I try to help students, especially, see their library research as more than drudgery, as a discovery process that furthers their knowledge beyond the assignment," Stoss says. "I learned that when I did my own research—to look beyond the obvious, to push at the questions a bit more and collaborate to find the answers."

One of Stoss's top professional accomplishments was helping build a national acid rain database "from scratch," based on his graduate research at Syracuse University and research conducted for the Center for Environmental Information in Rochester. The project eventually spun off into a comprehensive global climate change reference work, "Trends: A Compendium of Data on Global Change," that he helped develop while a University of Tennessee researcher working at Oak Ridge National Laboratory. He landed in Buffalo after that, in 1996.

Since then, he's served in countless leadership positions in his field, and helps UB students and faculty uncover current data, journal articles or locate relevant online textbooks. "I'm motivated by my desire to inspire others, to help them think more about living in a world unconstrained by greenhouse gases," he says.

The Aruba connection came about five years ago when Stoss gave a keynote address on sustainability for the annual meeting of the Association of Caribbean Universities, Research and Institutional Libraries in the French Antilles.

Aruban conference attendees invited him to participate in a speaker series hosted on the island by the National Library of Aruba and the University of Aruba. In 2012 he was featured at Aruba's first environmental education symposium, and he is now a regular attendee at the annual "Green Aruba" conference.

Stoss's extracurricular work doesn't stop there. After viewing the documentary "An Inconvenient Truth," based on the groundbreaking book by Nobel laureate and former Vice President Al Gore, Stoss enthusiastically signed up to become a sustainability presenter for The Climate Project, Gore's environmental advocacy nonprofit. As part of Gore's Climate Reality Project Leadership Corps, Stoss has gone on to train 950 volunteers—including his daughter, Kaeti—and has given Gore's presentation to undergraduate and graduate classes at UB and throughout the country.

These days, Stoss still plans to visit sunny Aruba, but he also wants to figure out how to help the UB community navigate the rapidly-changing library landscape. As books are replaced with data, he wants to ensure that finding the best environmental knowledge and scientific literature is still as easy as selecting a volume from the shelf.

Fred's staff profile is online at: library.buffalo.edu/fstoss



The newly-reconfigured Science & Engineering Information Center offers an increased number of study spaces and power outlets. *Photo: Lukia Costello*

and students to make sure that they understand how to effectively use reference tools and develop strategies for identifying, obtaining, and critically evaluating data and information.

Integrating library research skills into classroom, laboratory and field experiences directly translates into professional success for our faculty, graduate and undergraduate students. Dr. Frank V. Bright, Ph.D., Henry M. Woodburn Professor of Chemistry and SUNY & UB Distinguished Professor, expands upon this point, “Having timely access to the type of information that the Science & Engineering Information Center provides allows my students and me to best reconsider where the field has come from, and to then best focus our research program toward solving the most important problems in nanoscale design and molecular-level targeting.”

The University Libraries still have much work to do to make the Science & Engineering Information Center match our vision, but we are fundamentally committed to accomplishing our goal. Your assistance will enable us to further renovate this space and incorporate state-of-the-art technologies, ranging from much needed modular furniture to a 3-D visualization lab, providing the next generation of UB faculty and students a competitive advantage in research and the job market. Anyone interested in making a donation should contact:

Donald Elick
Director of Development
(716) 881-8206 or donelick@buffalo.edu

Joan Bozer

by: AMY VILZ, University Archivist

“We women demand an equal voice,
we shall accept nothing less.”

-Joan Bozer in 2011, quoting American women’s suffrage leader, Carrie Chapman Catt, who campaigned for the 19th amendment to the United States Constitution which gave U.S. women the right to vote in 1920.

When former University Archivist Shonnie Finnegan established the Women’s Archives Project in 1977, her goal was to make UB the area’s leading repository for women’s history collections and give women an equal voice in the historical record. Currently, the University Archives is home to more than 25 such collections, and our most recent addition, the Joan Bozer Papers, complements such collections as the Business and Professional Women of Buffalo Records, the Eva M. Noles Papers, the Mother’s Club of Buffalo Collection, and the Uncrowned Queens Digital Oral History Project, among others.

As a nine-term Erie County legislator who served from 1978-1995, Joan Bozer encouraged women to be active in politics and local issues. Her many years of community service and activism reflect her passions: renewable energy, responsible land use, historic preservation, expansion of the Metro Rail system, and restoration of Buffalo’s Olmsted Parks. The Joan Bozer Papers reflect her involvement in matters that came before the Erie County Legislature, and serve as a significant resource on these and many other issues of local importance during the past thirty years.

A native of Westchester County, Joan Bozer spent her childhood in Pelham Manor, New York. She attended Dean Junior College in Franklin, Massachusetts, and earned a BA degree in history and government from SUNY Empire State College. Today she and her husband, cardiologist Dr. John Bozer, live in Buffalo in a home heated by a passive solar system, a reflection of their sustainable living ideals.

Joan Bozer’s list of accomplishments is impressive. She is founder or cofounder of the Western New York Sustainable Energy Association, Women for Downtown (Working for Downtown), Buffalo Friends of Olmsted Parks (Olmsted Parks Conservancy), Buffalo Niagara Chapter of the Friends of the Women’s



Rights National Park, International Trade Council (Buffalo Niagara World Trade Center) and the Women’s Pavilion of the Pan-American Centennial in 2001. She has also served as president of the Junior League of Buffalo and the Buffalo League of Women Voters. A significant accomplishment was her leadership in saving Buffalo’s Old Post Office in 1980, now home to the city campus of Erie Community College.

Praise for Joan Bozer comes from many sources. In 1987, she coordinated a conference with the Ecumenical Task Force of the Niagara Frontier. The group’s Executive Director wrote to Joan, “You go to the top of the list for perseverance and all other good virtues!” Her numerous awards include *The Buffalo News* Citizen of the Year (1978), the Red Jacket Award from the Buffalo History Museum (1997), and her induction into the Western New York Women’s Hall of Fame (2000). Recently, when asked about her time as a legislator, Joan responded enthusiastically: “I loved every moment of it. It was exhilarating.”

The University Archives welcomes donations of materials from UB administrators, faculty, staff, students, alumni, and the general public. In addition to women’s history, major collecting areas include design, environmental issues and organizations, education, and social activism. For more information, contact the Archives at (716) 645-2916 or lib-archives@buffalo.edu. Gifts in support of the University Archives may be made online by visiting: library.buffalo.edu/giving



Niagara Falls, N.Y., 1882

WE HAVE A MAP FOR THAT...

"I am told there are people who do not care for maps, and I find it hard to believe."

Robert Louis Stevenson, *Treasure Island*

If Robert Louis Stevenson were to visit the UB Libraries' Map Collection, he would find not only a wealth of maps and atlases, but also a broad array of cartographic materials covering almost every region of the Earth, the Solar System and the Universe. With over 320,000 maps and more than 500 atlases, UB's Map Collection is western New York's largest and most comprehensive collection of maps and related materials. Within New York State, the Libraries' Map Collection ranks first in size among universities and colleges, second only to the New York Public Library for research collections.

A wide range of current and historic topographic maps for the U.S., Canada and the world, at scales ranging from 1:24,000 to 1:1,000,000, are available in the Map Collection. Thematic maps, illustrating features such as population, geology, landforms and water resources, are available for all parts of the world, and topographic maps from the 1940s-1960s reflect how borders changed during the 20th century.

The Map Collection also houses nearly 6,000 aerial photographs of Erie and Niagara Counties from 1927-1929, 1966, and 1978. These images are useful for regional studies as well as research in history, anthropology, engineering, planning, geography and other fields. The aerial photos are an excellent resource for genealogical research, as are the Map Collection's

historical atlases that show local cities and towns, with some offering details about individual houses and properties. Aerial Photographs of Western New York, a digital collection developed by the University Libraries, includes 175 aerial photos and offers a fairly detailed view of the city of Buffalo. The digital collection is available online at: library.buffalo.edu/maps/aerial-photographs

Street maps of German cities form another interesting segment of the Map Collection. The maps, most of which pre date World War II, were donated by the late William S. Allen, UB professor emeritus, who collected them for his research on German history. The Libraries regularly receive requests to study these maps because they show the German cities as they were before and during the war. In almost all cases, the streets and names have changed, so the maps are the only source of this historical data.

Gifts of maps, atlases and other cartographic materials are always welcome, and anyone interested in donating materials can contact:

David Bertuca, *Map Librarian*
(716) 645-1332
dbertuca@buffalo.edu

The globe pictured here is one of the Map Collection's rare items.

Photo: Lukia Costello

REPAIRING A TREASURED GLOBE

Originally presented to Thomas B. Lockwood in 1934, this 30-inch globe, crafted by W. & A.K. Johnston of Edinburgh and London, dates from the period 1925-1930, and features a beautiful oak stand created by the Kittinger Furniture Company of Buffalo. Few such globes remain in existence today; one, at Oregon State University, was recently restored, and the globe is now valued at more than \$110,000 due to its rarity and distinctive early 20th-century style. It is our hope that the UB Map Collection's globe can be restored to its original beauty.

Individuals interested in contributing to this initiative may contact:

Donald Elick, *Director of Development*
(716) 881-8206 or donelick@buffalo.edu



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LIBRARY store

Searching for a unique gift? Selected images from the UB Libraries' Digital Collections (including those pictured here) are available for purchase as posters or prints from our Library Store. You'll find photographs of famous individuals associated with the University at Buffalo, vintage renderings of Niagara Falls, 1901 Pan-American Exposition prints, 19th-century lithographs, cover art from early UB student publications and more. Visit the Library Store, choose your favorite item, and have a print or poster shipped directly to your address.

library.buffalo.edu/store

20% OFF
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