Special Collections Outreach via Library Instruction to First Year Engineering Students

Jessica Breiman
University of Utah, J. Willard Marriott Library
AV Archives/Digital Library Services

Dale Larsen
University of Utah, J. Willard Marriott Library
Graduate & Undergraduate Services

Suzy Harris Rytting. Mid-1940s. P0413n03_01_024. Marriott Library Digital Library. 3 May 2016.

Larsen, Immanuel. *You Know Me?* July 1914. Photograph. Larsen Family Private Collection.

Important: Who Were Our Librarians?

Archivist

MLIS, 2013

Some experience teaching one-shot and LEAP classes with other library faculty. Primarily a non-faculty archivist

Wanting to see Digital Library/SPC material incorporated in curriculum

Interested in helping students know what SPC resources are available and how to get to them

Wasatch Mountain Club Group on the Trail from Desolation Lake to Lake Salamander. 20 Sept. 1931. Wasatch Mountain Club Photograph Collection. University of Utah J. Willard Marriott Library, Salt Lake City. P0004n0747. *Mountain West Digital Library*. Web. 4 May 2016. <http://mwdl.org>.

Undergraduate Instruction Librarian

MLIS, 2005

9 years experience teaching LEAP,
22 years in several academic library jobs

Wanting to see the entire library incorporated into outreach & instruction

Motivated by student engagement and success with materials; “the light bulb moment”

Where did our idea come from?

Both Dale and Jessica had experiences working with classes/ students/faculty in different capacities -but independently

-Special Collections ‘Guest Star’ in a classroom
-Special Collections Visit for ‘Dog and Pony’

-Jessica’s reassignment to Digital Library Services and emphasis on outreach

But we never formally collaborated on a library curriculum

Hurley, Frank. *Blizzard at Cape Denison*. 1912. Australasian Antarctic Expedition papers, 1911-1914. Mitchell Library, State Library of New South Wales, Sydney. *Flickr Commons*. Web. 5 May 2016. <https://www.flickr.com/photos/statelibraryofnsw>.

What is eLEAP?

Engineering LEAP

Freshmen students with engineering intentions take required courses as a cohort; building relationships that quantitatively help with graduation/retention numbers.

Paradigm: "high school graduates"

Fall Semester: Engineering & Social Science

Very popular (and safe) with students -they're in their element.

Spring Semester: Humanities

Very scary (and mysteriously threatening) with students.

Burgess, Harrison. *A Young Scholar*. ca. 1930. Harrison Burgess and the South Shields Photographic Society. Tyne & Wear Archives & Museums, Newcastle upon Tyne. *Flickr Commons*. Web. 2 May 2016. <https://www.flickr.com/photos/twm_news>.

Why Does eLEAP Matter to Libraries?

Dedicated Partnership Between Faculty and Librarians

Potential for helping faculty develop and support their curriculum as well as the information literacy goals of the library.

Lots of Breathing Room

With 5 *librarian visits* in the fall and 5 more in spring -there is plenty of time to go into topics only dreamed about in a one-shot class.

Engineering students have a tight and regimented schedule; finding time as a librarian to work with their classes is tricky.

More freedom to take risks, experiment (or screw up!)

Access to a Large Number of Students

"Roughly one out of every three incoming students elects to join the program."

"LEAP Learning Communities Frequently Asked Questions." *LEAP Learning Communities*. The University of Utah, Web. 2 May 2016. <http://leap.utah.edu/faq/>.

Esme Steel, Secretary 1939/40, Vice President 1940/41. 1939. London School of Economics and Political Science, London. IMAGELIBRARY/781. *Flickr Commons*. Web. 2 May 2016. <https://www.flickr.com/photos/lselibrary>.

Important: Who Were Our Faculty

Newer Instructor

PhD in English

1 year experience teaching LEAP, plus experience teaching online courses at private university

Happy with student results in previous spring semester, and liked the library sessions as they were last year

Strong believer in a student-driven curriculum of flexibility and encouraging student discovery

50 minute classes

Beard, George. *Mountains Between Trees*. ca. 1900-1909. L. Tom Perry Special Collections. Brigham Young University, Harold B. Lee Library, Provo. MSS P-3 #1779. *Mountain West Digital Library*. Web. 3 May 2016. <http://mwdl.org>.

Experienced Veteran Instructor

PhD in Political Science

9 years experience teaching LEAP, plus experience teaching as adjunct in other colleges/degree programs in person

Frustrated with students' results in previous spring semesters, very open to experimentation with curriculum

High expectations and good at communicating this to students (and librarian)

80 minute classes

Important: Who We Thought Our Students Were...

Wholly invested in the class work

Well educated

Well rounded experiences and attitudes

Slow to judge

Open to learning new ideas

Engineering Students

Portrait of John Torrey. ca. 1840. Gray Herbarium (1202). Harvard University Library Weissman Preservation Center. GH-3. *Daguerreotypes at Harvard*. Web. 4 May 2016. <http://preserve.harvard.edu/daguerreotypes>.

Important: Who Our Students Really Were

A strong idea of ‘budget’ and perceived value for all of their classes: *some classes get more of the budget than others!*

Group dynamic (A vs. C students)

Some seniors, mostly freshmen

“High School Graduates”

Logical/linear thinkers

Engineering Semester: fun

Humanities Semester: difficult

Southworth & Hawes. *Portrait of Truman Henry Safford*. ca. 1840. Harvard University Archives. Harvard University Library Weissman Preservation Center. HA-11. *Daguerreotypes at Harvard*. Web. 4 May 2016. <http://preserve.harvard.edu/daguerreotypes>.

Quick Background Note: Active Learning

Background: Librarian Dale was tired of ‘sleepers’ in class...

Librarian decides to talk much less & and make students work more in class.

Outcome: actually the results were pretty good - sometimes even poignantly so.

The core elements of active learning are student activity and engagement in the learning process. Active learning is often contrasted to the traditional lecture where students passively receive information from the instructor.

Prince, M. "Does Active Learning Work? A Review of the Research." *Journal of Engineering Education* 93.3 (2004): 223-31. *Scopus*. Web. 3 May 2016. <https://www-scopus-com>.

Newman, John. *Students on Campus*. 1979. University of Nevada, Reno Libraries. UNRA-P1015-01.tif. *Mountain West Digital Library*. Web. 3 May 2016. <http://mwdl.org>.

Why Special Collections Outreach?

[Stereo]Typical Special Collections Patrons

Typical Class Structure (for “library visits*”)

5 minutes	Opening announcements by faculty or “peer advisor”
10-15 minutes	Librarian directs students to the campus guide -and today’s tab from which supports the assignment. Librarian demos subscription resources and briefly contextualizes what they’ll be used for today. Librarian demos aspect of special collections resources and adds succinct (and carefully chosen) context.
20-30 minutes	Group assignment -to be completed in class time and presented on -is handed out Group work time
10-15 minutes	Group reporting time (facing the judgement of the librarians)

*the old notion of “library visits” used to be tied to an actual visit to a Marriott Library classroom or computer lab. Due to campus construction, we didn’t actually visit the library once in this semester, but were in a lab in another campus building: for this semester, it was not an insurmountable problem.

The Assignments (oral histories)

Question for Subscription Databases: *Newspapers, History Journals, etc.*

2. 2 part question: on your "research subject" find two separate articles that represent attitudes from different viewpoints or opinions and give me a direct quote (note: what caused controversy in the early days –or the later outcomes of your subject; pros/cons, etc.)

    a. Title of Article:
    Quote:

    b. Title of Article:
    Quote:

Question for *Oral Histories* (provided by the librarian at this class)

3. Using an Oral History, tell us about life in the development era of your subject (extra points if it from an engineer saying anything –"it was difficult", "we drank a lot of coffee", "I crashed the car often") –historical analysis often refers to the people in the moment –you'll have to read a bit, but look for quote marks "" in the articles.

    Title of source (article/chapter/etc.):
    Story/tidbit/etc.:

The Assignments (photographs)

Ok -as a team, make a single powerpoint slide with all of these details and carefully craft a story using the humanities side of your brain (refer to humanities jargon included in handout)

Oh -I forgot to mention -you have 30 minutes! Go!

CONFLICT

CHARACTERS

SETTING

Photograph of someone who we can imagine playing the role of:

Protagonist

the leading character or one of the major characters in a drama, movie, novel, or other fictional text

Correct citation goes here

Direct (and short) quote from a historic newspaper interview about or with someone who identifies with the protagonist.

correct citation goes here

Direct (and short) quote from a historic newspaper about or with someone who identifies with the antagonist.

correct citation goes here

Photograph of someone who we can imagine playing the role of:

Antagonist

antagonist. a person who is opposed to, struggles against, or competes with another; opponent; adversary

Correct citation goes here

A passage, sentence, phrase from an article in a history database succinctly describing what some of what life was like from this era/time (doesn't have to be mining or labor specific to be effective)

correct citation goes here

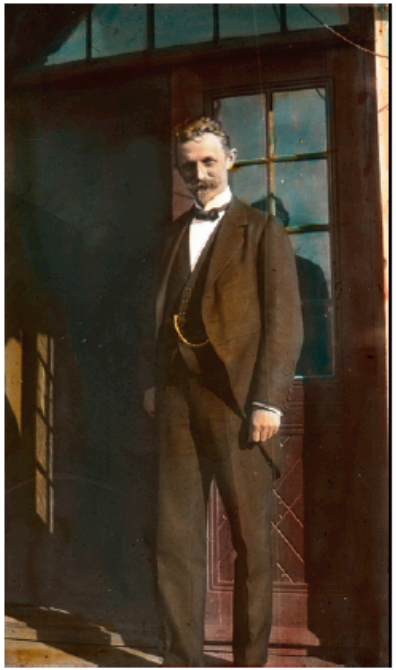
Photographs:
Flickr Commons (historical archives)
http://www.loc.gov/pictures/
"digital library" tab at Marriott Library
newspapers/books

Newspapers Quotes:
database: New York Times Historical
database: Wall Street Journal Historical
Utah Digital Newspapers (hardest)

Historical Context Quote:
database: find books in the library catalog!
database: JSTOR
database: America History & Life

The Assignments (photographs)

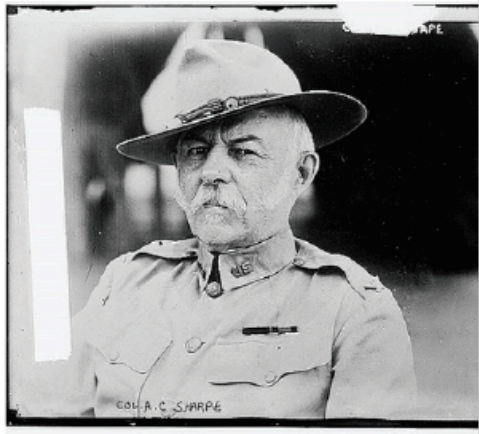
What I hoped I'd get



Principal of the Grundtvig School. ca. 1915. Visual Instruction Department Lantern Slides. Oregon State University Special Collections & Archives, Corvallis. P217:set 067 033. *flickr commons*. Web. 28 Mar. 2016.

…considering his opportunities, he had already made a success of himself. But he didn't lay back on his oars. He kept pegging away, studying every night…
"The Story of Steinmetz --- A Master of Electricity." *New York Times (1857-1922)*: 1. Nov 01 1908. *ProQuest*. Web. 28 Mar. 2016 .

I have recently had occasion to suspect the sincerity of your motives and now I have conclusive proof that instead of assisting the immigrants you are in the habit of actually preventing recently arrived girls from meeting their friends…
"Missionary Accused of Deceiving Immigrants." *New York Times (1857-1922)*: 16. Oct 11 1902. *ProQuest*. Web. 28 Mar. 2016 .



Bain News Service. *Col. A.C. Sharpe*. ca. 1911. The Library of Congress, Prints and Photographs Division, Washington, D.C. LC-B2- 2237-1. *flickr commons*. Web. 28 Mar. 2016.

Usually they are not satisfied with what they have achieved, because they expected greater prosperity when they migrated westward.

Hale, Frederick. "Danish Immigrant Disillusionment In The Pacific Northwest." *Pacific Northwest Quarterly* 71.1 (1980): 15-23. *America: History & Life*. Web. 29 Mar. 2016.

Results/Assessment: The *Library Visit* Assignments

Dale e-mail disaster

The Good...

The Transcontinental Railroad

- Pivotal in Uniting the Nation
- Extreme Boost in Economic Growth
- Roughly 80% of workers hired were Chinese (Doolittle).
- Cut travel from coast to coast from 6 months to 1 week (Chiu, Herman B.)

Central Pacific Railroad. 1877. People's of Utah Photograph Collection. Mss C 239. Print Photograph. Utah State Historical Society. 7 April 2016.

The Good...

Life of Italian American

Morton, Al. *Italian American Civic League Float, Days of '47 Parade*. N.d. J. Willard Marriott Library, University of Utah. p0086n01_04_48. *Multimedia Archives, Special collections, J. Willard Marriott Library*. Web. 31 Mar. 2016. <http://content.lib.utah.edu>.

Italian American Pride

All-State Italian Day, Lagoon Resort, ca. Mountain West Digital Library. University of Utah - J. Willard Marriott Library,1953. Web. 16 Apr. 2016.

The Good...

Retaining Culture

Morton, Al. *Italian American Civic League Float, Days of '47 Parade.* N.d. J. Willard Marriott Library, University of Utah. p0086n01_04_48. *Multimedia Archives, Special collections, J. Willard Marriott Library.* Web. 31 Mar 2016. <http://content.lib.utah.edu>.

Examples of Italian culture and proceedings in Utah. Showing they still see themselves as Italian and practice and celebrate their heritage.

Minotti, John. *Sunnyside, Utah-Life and Customs P.2*. Digital image. *Utah Division of State History*. Utah State History, 2001. Web. 31 Mar. 2016

And the not-so-good...

Significant Events of Irish American History

Industrial Revolution

Many labor jobs in the US

Immigration picks up in 1820 - Predating the Famine

US was natural place the escape adversity

(thehistoryplace.com)

And the not-so-good...

John Bennett Herrington

- Raised in the Chickasaw Nation
- Noted for spending 330 hours in space including over 19 EVA hours
- Included in the Chickasaw hall of fame becoming the first and currently only enrolled member Native American to fly and walk in space.

And the not-so-good...

John Herrington

From Wikipedia, the free encyclopedia

For other people named John Herrington, see John Herrington (disambiguation).

John Bennett Herrington (born September 14, 1958 in Chickasaw Nation) is a retired United States Naval Aviator and former NASA astronaut. In 2002, Herrington became the first enrolled member of a Native American tribe to fly in space. (William R. Pogue was of Choctaw ancestry and was a crewman aboard Skylab 4 in 1973–1974, but he was not an enrolled member of the Choctaw.)

Contents [hide]

1 Early life
2 United States Navy career
3 NASA career
  3.1 Spaceflight
  3.2 Underwater laboratory
4 Rocketplane
5 Cross-country bike ride
6 Honors and Education
7 References
8 External links

John Bennett Herrington

Herrington in November 2009

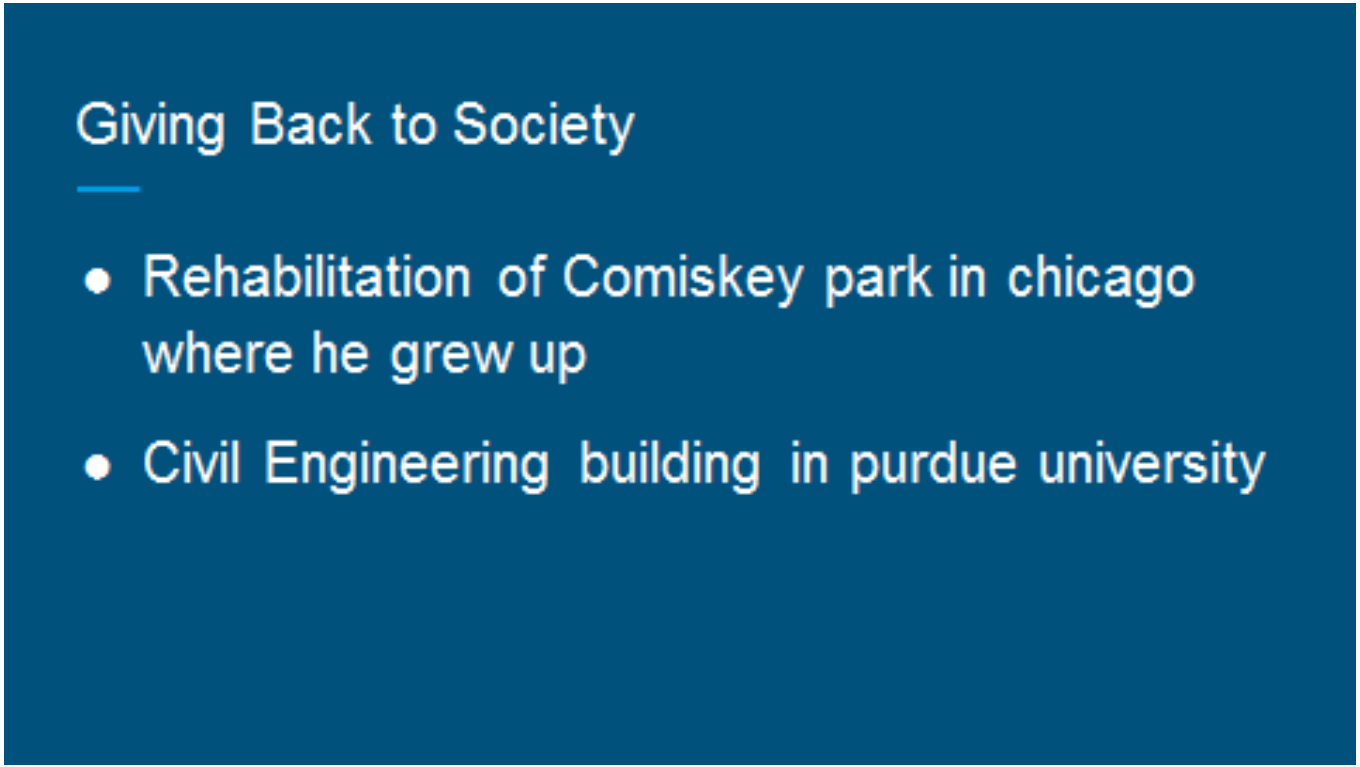
NASA Astronaut

Nationality	American
Status	Retired
Born	September 14, 1958 (age 57) Wetumka, Oklahoma, United States

Early life [edit]

Herrington was born in Wetumka, Oklahoma into the Chickasaw Nation. He grew up in Colorado Springs, Colorado, Riverton, Wyoming, and Plano, Texas, where he graduated from Plano Senior High School. He earned

And the not-so-good...



Outcomes of Experience & Observations

From perspective of the 'instruction librarian'

Knowing goals & expectations of the teaching faculty and the special collections librarian is more important than the sun.

Library classes had great results > few transferred work to final.

Online Archives: Thumbnails must be bigger, metadata could be smaller. Students were audibly/visibly in pain from your *UI*. [ContentDM is pain!]

Google Images is easier, more browsable, faster, etc. To make special collections relevant to this audience we needed:

*Assignments with constrained resources (campus guide)

**Spoon Feeding*: ex. specific oral histories downloaded, ready to use for a specific assignment

Crowd at Belmont Grill. 7 Apr. 1933. Los Angeles Public Library, Los Angeles. LAPL 00100927. *Digital Public Library of America*. Web. 3 May 2016. <https://dp.la/>.

Outcomes of Experience & Observations

From the perspective of the 'special collections librarian'

Importance of combining "how-to" instruction and stoking student interest in Special Collections resources

Demonstrating value of primary sources to engineers -- still a challenge

Important to know instructor expectations; temper my expectations

Students in classes with veteran faculty were overall much better at integrating sources into presentation

Time is of the essence; use it wisely

"How to Use" special collections materials may be more important than "How to Find" for students new to research.

Butterfingers. 1960. World Museum of Mining. Mountain West Digital Library. 3 May 2016.

Outcomes of Experience & Observations

From the perspective of a member of teaching faculty

Oral Histories Assignment was great!

Oral Histories mixed with other resource (historic newspapers, in this case) was good.

Photographs assignment worked -but we need a stronger expectation that the results transfer to final assignment

"Be very clear on what you want".
"They'll never have the depth you expect".

Beard, George. *Mountains Between Trees*. ca. 1900-1909. L. Tom Perry Special Collections. Brigham Young University, Harold B. Lee Library, Provo. MSS P-3 #1779. *Mountain West Digital Library*. Web. 3 May 2016. <http://mwdl.org>.

Ways Forward & Personal Perspectives

Flipped Classroom Approach: Saves classroom time for engaged learning; expands the amount of classrooms lesson can reach

Visiting Special Collections Reading Room for hands-on experience

Inclusion of library sources/SPC sources in grading rubric for presentations

Much more conversations with faculty and their teaching goals