

## What this is

The *Innovative Instructor* is an article series (<https://ctei.jhu.edu/ii>) and a blog (<https://ii.library.jhu.edu>) related to teaching excellence at Johns Hopkins

## Article categories

### Best Practice

How to use technologies and apply innovative instructional methods

### Pedagogy

Hopkins professors share successful strategies for teaching excellence

### Technology

Information about emerging technologies, who is using them, and why you should know

For information on how to contribute to The Innovative Instructor or to read archived articles please visit:

<https://ctei.jhu.edu/ii>

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[ctei@jhu.edu](mailto:ctei@jhu.edu)

## About the CTEI

The Center for Teaching Excellence and Innovation partners with faculty, postdocs, and graduate students to extend instructional impact by connecting innovative teaching strategies and instructional technologies

CENTER for  
TEACHING  
EXCELLENCE &  
INNOVATION



## Getting to the Source of the Problem

Bill Leslie, Professor, Department of History of Science and Technology

### The issue

Even the smartest undergraduates need to be taught that everything worth knowing won't be found on a smart phone. Luckily, the Homewood campus offers endless opportunities for teaching from primary sources. The Hamburger Special Collections and Archives has everything from rare books, official university records, and historic photographs to films and artifacts, including a growing collection devoted to undergraduate life. Beyond the library there's another world of primary documents to discover—artwork, memorials, even the very buildings where our students live and learn. With the right tools, and some help from the Center for Teaching Excellence and Innovation (CTEI), I tried to bring these sources to life for the students and get them out of the classroom to experience the campus in an entirely new way.

### Why does it matter

Using new media, our students can interpret and showcase these primary documents in ways that are exciting, relevant and accessible. For students accustomed to Google searches and textbooks, confronting a primary document, on paper or on site, can be a real eye opener. Reading about chemist Ira Remsen is one thing. Putting your hands on his original letter to Daniel Coit Gilman seeking employment at the new Johns Hopkins University is another. So is poring over his original laboratory notebooks and student lectures. Suddenly his ashes and the accompanying memorial plaque in Remsen Hall look very different. You can walk by the Greenhouse and the President's Garden for four years and hardly notice. Spend some time with the photograph collection and the records of the McCollum-Pratt Institute and you realize that here was the first laboratory on the Homewood campus, a working botanical garden, and the birthplace of molecular biology at Johns Hopkins. Follow a freshman student during his or her first year at the university through a film, and you appreciate how much has changed since then, and how much has not.



### Faculty solution

For my course *Johns Hopkins: The Idea of a University*, I wanted the students not only to master new research skills, but to learn from one another and to present their findings in a novel way. There were sixteen freshmen in this writing intensive course, co-sponsored by the Program in Museums and Society. The students came from the sciences, social sciences, engineering and the humanities; some were tech savvy and others not. The students selected 'hot spots' on the Homewood campus, places where something significant had happened. We discussed their initial choices collectively, did further research to assess existing primary sources, then narrowed the list to eight, with two students assigned as a team to tell the story of each 'hot spot'.

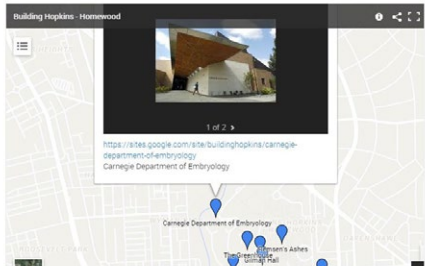
I wanted an environment where students could share their research using a collaborative, web-based platform. In consultation with the CTEI, we selected Google Sites, which provided robust functionality with a low learning curve and short setup time. Since the projects had a strong spatial component, we also included Google Maps so that the students could identify the location they were researching on the campus map and have it embedded in the Google Site. As the students began discovering sources they wanted to include (video, historic documents, photographs and their own interviews), they would upload them to

HOME HOMEWOOD CAMPUS

## Home


Johns Hopkins University was founded in 1876. Quite a bit of history has occurred since then. This site will begin to tell some of the little known stories about the University and the people who have made it great.

The content of this site was developed as a research project for the course "Johns Hopkins: The Idea of a University" taught by Professor Bill Leslie.




HOME HOMEWOOD CAMPUS

## Remsen's Ashes



Ira Remsen was the first Professor of Chemistry at the Johns Hopkins University and as such was part of the original faculty at the inception of the university. He pioneered the German model of education in the United States, focus on research and teaching through the laboratory. As such he founded the American Journal of Chemistry and wrote many English-language chemistry texts. He later became the second president of Hopkins, overseeing the move of the university to the new Homewood campus and pushing to be a research university on par with those in Germany. After his death, the brand-new chemistry laboratory building was named in his honor and his ashes were interred in that same building.

The remains of this great man remain on campus, not only in the form of his ashes but also in his ideas and the way that the sciences are taught both at Johns Hopkins and around the country. It is a legacy that will live forever in the halls of the Johns Hopkins University.



**Timeline**

- 1846-1872: Early life and Education Time in Germany
- 1872-1875: Professor at Williams College
- 1876-1913: Remsen at Hopkins Chemist President
- 1879-1886: The Great Saccharin Debate
- 1927: Death and Ashes Bibliography
- Dissected NMR
- Remsen and his lab

Hall played a significant role throughout the course of Hopkins's history. For scenes around and in Gilman Hall, visit 95 Scenes of Gilman Hall.

THE CLOCK-TOWER

THE ARCHAEOLOGY MUSEUM

THE CUNEIFORM TABLET OF PAUL HAUFF

THE BIOGRAPHY OF DANIEL COIT GILMAN

1871-1872

1872-1875


1875-1901

1901-1908

THE GILMAN HALL AND OTHER TRADITIONS

## THE VISION OF GILMAN HALL

A Grand Vision for Gilman Hall



A GRAND VISION FOR GILMAN HALL

Comments

You do not have permission to add comments.

8:01 AM May 1 - Comments off

I really liked the visuals that you have included, and now there's a nice variety of images. I especially enjoyed the way you organized the different construction periods, and the section on the Gilman Hall and how it's the tallest building on campus is a really interesting section. I would just fix the timeline so that every page leads to all of the other links.

11:59 PM Apr 30, 2014 - Comments off

I like that you have included the newer, more relevant history with the recent remodeling, that makes it easier for us as students to connect to and explain the changes to alumni looking at this page. Lots of words but you do balance it out with good pictures and a few videos. I also like the

a class folder in Google Drive, which integrates well with Google Sites. Over time, each team amassed an impressive collection of primary materials.

Early on, I told the students that the site would not be public so that they could focus on learning without feeling the whole world was looking over their shoulders. To foster a collaborative atmosphere, I had the students critique one another's work each week and provide written feedback right on the project pages. Did this image work well? Was that document clear? Could you edit down the interview without losing anything important? What kinds of primary material did you still need to tell the story more fully? The students also gave each other valuable technical tips on how to use the site efficiently. Working together, the class had almost no difficulty learning how to post content and design the layout.

## Results

The student reaction to the project was overwhelmingly positive, judging from class evaluations and personal discussions with individual students. Several of the students asked to continue working on their projects after the class had ended. Students often discovered hidden talents and developed new skills. One student did such a fine job interviewing a faculty member that I asked if he'd ever considered a career in filmmaking. Not until now, he answered! All of the students learned how to tell stories in words, images and sounds, and a few turned out to be gifted web designers. Working with tight word limits also honed their writing skills.

The three Google applications worked extremely well together. The students almost immediately felt comfortable with the technology and could draw on a "how-to" workflow developed by the CTEI for this course. CTEI staff met with the class early in the term and answered student questions over the course of the semester. Initially, we used the Google Site storage allotment. The sheer amount of material collected by the

students quickly overwhelmed it. With the help of CTEI, we changed the workflow for uploading material by setting up a private class folder in Google Drive. This proved to be an efficient solution since embedding resources from Google Drive into the Google Site was simple, allowing all of the resources to be stored in one place. An additional advantage was being able to archive what the students had collected.

This was my first class project using Google applications, but it won't be the last. Next semester we'll look at 'hot spots' in the history of Johns Hopkins medicine. For the first assignment, I will have the students take a look at what their predecessors have done and critique it. We could scale up the applications for a larger class, but for now I'm more comfortable with the seminar format. I just returned from a professional society meeting where I shared my experiences with the Google Sites tools. My colleagues showed as much enthusiasm for the approach as the students, so we may see similar 'hot spot' maps popping up at other universities in the near future. Stay tuned.

## Author's background

Bill Leslie

Professor, Department of History of Science and Technology, JHU



Bill Leslie has taught at Johns Hopkins since 1981. His favorite courses include "Monuments and Memory," "Las Vegas: The Eight Wonder of the World" (with field trip), and "Science on Display." He is currently writing a history of the university. His upcoming spring course, a freshman seminar on Johns Hopkins medicine, will build on the innovations discussed in this article.