

# FIAT LUX

Student ‘hackers’ design new ways to research the Free Speech Movement

*by Cathy Cockrell, Public Affairs*



Students huddle to strategize at the Hack FSM launch. Each four-person team worked every night until midnight during the twelve days of the contest.

In the half-century since Berkeley’s Free Speech Movement, the rousing oratory of Mario Savio and iconic images of mass demonstrations have come to stand in for the 1964 movement and its legacy.

But all that makes for “a very blurry snapshot,” historian Felicia Viator, a Cal grad and visiting lecturer, told a gathering of students in Doe Library recently.

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FROM TOM LEONARD, THE KENNETH AND DOROTHY HILL UNIVERSITY LIBRARIAN

## Missing the Sign for 20th Century on the Information Highway



Publishers are not much help for readers who want to sit down with books that first appeared between the 1920s and the 1980s. Media companies do a better job of keeping in print the books from the times of Teddy Roosevelt and Bill Clinton.

If we piled books by years and stood back and looked at them, we would see a desolate valley between Mt. Roosevelt and Mt. Clinton, with relatively few titles today in print (or in e-editions) from the middle decades. Using a random sample of new books available on Amazon, Professor Paul Heald of the University of Illinois showed that more titles are

available from the 1880s than from the 1980s. Book publishing grew nearly seven-fold during this time, but the reader today seeking a new edition to purchase will have better luck with a strictly Victorian reading list.

If you want to read the contemporary books that inspired Hollywood studios, Cold War strategists, or Madison Avenue types from *Mad Men*, you need a great research library.

The muddle of U.S. copyright is a main reason publishers cannot tackle more 20th century titles. Some fifteen years ago Congress set 1922 as the last date that U.S. books would automatically be part of the public domain, abandoning the practice of opening new titles each year and allowing all types of re-publication. This compounded the problem that Congress had created earlier in lifting the requirement that authors file notices of what they wished to copyright. When copyright is “indeterminate” and there are big fines or legal costs for making a mistake, publishers hold back. Many books of the mid-20th century became “orphans”—risky to put back into print, either on paper or in an e-edition, but safe on library shelves.

# IT STARTS HERE

Berkeley's excellence is founded on its library. Opened in 1868 with one thousand books, the University Library now holds over eleven million volumes, and ranks as one of the world's great research collections. Join us in supporting the growth and preservation of this stellar library.



Libraries are proud to have preserved this cultural heritage but shocked that we have the only road signs taking people to these riches. We loan the post-1922 volumes and we have created smart digital indexes to further help readers. The hackathon story in this issue shows students doing this themselves! We wish we could do more. When copyright has served its legitimate purpose of compensating authors and publishers for the limited term *when there are such revenues*, it is a service to readers and the book trade. Copyright reform is before Congress now, but based on my experience, little is to be expected that will help readers. Unfortunately, the Library reign over the books of the mid-20th century is likely to continue.

Four Berkeley faculty members (I am one) have tackled this challenge by offering ways forward for authors and their heirs who want to get writings out of the limbo created by poorly crafted copyright laws and author contracts. Professors Carla Hesse, Molly Van Houweling, and Pam Samuelson have attracted many allies who wish to make the volumes that sit on Library shelves easier to share and to own. We have both the common reader and the specialist in mind. Whatever your interests, the 20th century is a rather important destination.

**[www.authorsalliance.org](http://www.authorsalliance.org)** is our road sign.



This record cover is from the Free Speech Movement Archive, one of the Bancroft's digital collections. Over 300,000 digital images, audiovisual material, and texts from the Bancroft are available through the California Digital Library's Calisphere and the Online Archive of California websites.

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To really understand the FSM and the whole period one has to go deeper, she suggested. "Broad brush strokes are not enough."

Viator spoke at a kickoff event for HackFSM, a 12-day "hackathon" in April that, she said, shared the FSM's aim "to create a free marketplace of ideas."

For HackFSM, organized by the Bancroft Library and Digital Humanities @ Berkeley, students were invited to develop a compelling user interface to the Bancroft's Free Speech Movement Digital Archive at [bancroft.berkeley.edu/FSM](http://bancroft.berkeley.edu/FSM), a large trove of texts, images and audio recordings that the Bancroft digitized and published to the Web in the mid-1990s. The original online collection was one of the Bancroft's first forays into digital archiving, and a big step toward making primary-source FSM materials accessible to students and the public, notes Mary Elings, head of digital collections at the Bancroft.

By today's standards, though, the FSM Digital Archive is static and not very engaging. Researchers can download and read files one at a time, but

there's no way to access the archive as a single data set as scholars in the "digital humanities" and "digital social sciences" are now doing — harnessing computer power to look for patterns across bodies of text, carry out computational analysis or visualize information in new and compelling ways.

#### THROWING OUT A CHALLENGE

Students were tasked with developing features that would be "helpful to a researcher who's just exploring the FSM; those might include topic modeling, visualizations, mapping or timelines," Elings said. "Think of different ways you might want to come into the data if you were a humanist doing a paper."

"As a human being I can look in an archive through a small amount of newspaper pages per day," said Andrea Horbinski, a grad-student "digital humanist" who helped organize HackFSM. "But if digitized with the right program, I can analyze a newspaper's entire publishing history in a few hours."



Student hacker Janine Heiser gets to work.

“Digital humanities is not a way to replace scholars; the data doesn’t speak for itself,” she added. “Scholars must still do the thinking about what it all means.”

Second-year computer-science major Kevin Casey, said he’d decided to take up the Bancroft’s challenge because “it seems like a good cause, to help out and make the archive usable.”

His team and nine others drew on the combined skills of their techies and humanists (each group was required to include at least one of each), and spent long hours deep in code and FSM documents — right up until Cal Day in April, when they presented their designs before a three-judge panel.

#### WINNING DESIGN

Four undergrads — Casey and fellow coders Craig Hiller and Alice Liu, along with interdisciplinary-studies major Cassie Xiong — took

first prize, which meant a MacBook Air for each. Second-prize winners received iPad minis.

Berkeley alum and environmental activist Gar Smith was on hand to congratulate the winners. “I like that young students are trying to discover what the FSM is like, and they’re doing it through modern lenses,” said Smith, who was arrested for his participation in the Free Speech Movement in 1964 and who presented awards to the winners. “We were limited to mimeograph machines and fliers, so this is a completely different approach to accessing information and organizing social change.”

The winning interface allows users to search for text, images or audio. It includes a photo-illustrated timeline of FSM highlights and automatically generates bibliographic citations. Audio clips are paired with time-stamped transcripts. The website is available online at <http://2n.io/>.

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Mary Elings, Bancroft's head of digital collections, says "it is amazing what the teams were able to create with a relatively small set of historic data and just twelve days to put something together. But the coolest thing that came out of it was that programmers and humanities people really learned to talk to each other."

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Inspired by the success of HackFSM, Elings is currently exploring how to use new digital tools to enable a graduate seminar to perform computational analysis on the archives of a California writer. And other Library efforts to make archival collections even more accessible to researchers and the public are underway. "There's so much digital content out there that's not being used as much as it could be," she says. "It's there, and we're building it all the time." ☀

*This story originally appeared on the campus News-Center story on April 18, 2014. Reprinted with permission.*

*The #HackFSM event was a Digital Humanities @ Berkeley initiative run by the Bancroft Library, with support from the Office of the Dean of Arts and Humanities, the Library, Research IT/the Office of the CIO, and the I-School.*

## VISUAL HISTORY, POSTER CONTEST, READING LIST MARK FSM'S 50TH ANNIVERSARY

As the fiftieth anniversary of the Free Speech Movement draws near, its legacy of openness and the right to seek, receive, and impart information endures. This fall's anniversary celebration of the movement will include an interactive website with a visual history, a roster of special events, and a poster contest.

Visitors to [fsm.berkeley.edu](http://fsm.berkeley.edu) will also find biographies of Berkeley students, faculty and staff who were major players of the Free Speech Movement, along with additional resources, such as images, video, news coverage, books, documentaries and a graphics toolkit. The site was developed in concert with FSM Veterans, a group of students involved in the protests at Berkeley.

And the Library's 2014 Summer Reading List focuses on the Free Speech Movement, with an array of eclectic titles recommended by faculty, staff and students. See [reading.berkeley.edu](http://reading.berkeley.edu)

For details on the many events scheduled to honor the Free Speech Movement, see the special events calendar at [fsm.berkeley.edu](http://fsm.berkeley.edu).

# The 2014 Charlene Conrad Liebau Library Prize for Undergraduate Research

Learning to plumb the vast array of Library resources—and to critically apply relevant materials to an original thesis—is no small feat, especially for an undergraduate. To do so requires a creative and persistent spirit of inquiry, a habit of mind that will serve students well in their future academic and professional lives. Each year we recognize excellence in undergraduate research projects that show evidence of significant Library exploration and understanding of the research process itself.

With topics ranging from Schubert to Samoa, werewolves to water, the 2014 projects display the range of scholarship nurtured at Berkeley. Presented here are highlights about each of this year's prize winners. See more—including links to the papers—at [lib.berkeley.edu/researchprize](http://lib.berkeley.edu/researchprize).

## Tori Cabot '17

*The Sexual Monster: How the Werewolf is a Lone Sexual Monster and Foil to the Vampire*

COLLEGE WRITING • PROFESSOR JONATHAN LANG



Tori Cabot's paper, written for a class called "Monsters and Modernity," analyzes werewolves and their role in current young adult literature. Professor Lang says Tori "identified the sources

that best addressed the problems or issues that were interesting and followed an investigative trail," and lauds "the sheer quantity and quality of her detective work." Mining citations from the most pertinent documents, Tori used the Berkeley Libraries to discover Richard Dyer's seminal scholarship on race and sexuality, as well as the work of other scholars.

## Rachel Cadman '14

*A Pioneer in Health Care For "Families Who Follow The Crops": California and the Making of the Migrant Health Act, 1949-1962*

HISTORY • PROFESSOR FELICIA VIATOR

Rachel Cadman's paper explores the genesis of the Migrant Health Act in the context of the emergence of migrant health care clinics in postwar California, and shows the important role that activists and

politicians played promoting this federal legislation. A farmworker herself, the topic has personal significance for her.

Rachel says that she now knows "a great deal about how to effectively and efficiently conduct research, a skill that I plan to take with me as I go on to graduate school."



## Li Duan '15

*Fuzhou Shipyard at Fujian: Early Divergence in Late Qing Modernization*

HISTORY • PROFESSOR GEORGE LAZOPOULOS



Professor Lazopoulos describes Li "as a skilled historian with a sophisticated understanding of historiographical methods." Focusing on the Fuzhou Shipyard in the Fujian province, Li's

honors thesis was developed during three semesters of independent study. Reflecting on his research experiences in the Library, Li notes how rewarding it can be to "ask old questions in a new way. History is as rich and colorful as our present life, so it can never be exhausted."

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## Matthew William **Enger** '14

*Order from Chaos: Ethnogenesis, Direct Democracy and Statecraft in California, 1948-1958*

HISTORY • PROFESSOR FELICIA VIATOR



By analysing eleven initiatives that appeared on the ballots between 1948 and 1958, Matthew refutes the prevailing understanding of California in the fifties as politically

stable. Professor Viator praises Matthew's research, noting that "he has utilized everything from graduate theses and monographs available in the Main Stacks, to California newspapers available through ProQuest, to personal papers available only via the Bancroft. Of all my students this semester, Matthew has made the best use of UC Berkeley collections."

## Yessica **Porras** '14

*Church of St. John the Baptist at Sutatausa: Indoctrination and Resistance*

HISTORY OF ART • PROFESSOR TODD OLSON



Yessica Porras's honors thesis analyzes the murals in the church of Sutatausa, Colombia as indoctrinating images embedded with indigenous imagery and

connected with pre-conquest petroglyphs located near the area of Sutatausa. Her perspective was enriched by a trip to Colombia that allowed first-hand study of the murals. Yessica notes that the experience of writing an honors thesis allowed her to have "a personal connection with the Library."

*"I think it's essential to understand that the Library is the laboratory for the social sciences and humanities. I came to UC Berkeley because it would afford opportunities for original research, and I hope that alumni and donors will help maintain Berkeley's excellence and commitment to thoughtful, relevant, and original research for the state, the nation, and the world."*

—Camille Pannu,  
2006 Library Prize winner

## Jeremiah **Trujillo** '14

*Posthumous Schubert: The Exhumation of the Solo Piano Works in Mid- and Late-19th-Century Transcription and Editing*

MUSIC • PROFESSOR JAMES Q. DAVIES



In this essay, Jeremiah examines ways in which Schubert's image was shaped and the reception of his solo piano works changed in the mid-and late-1800s, well after his lifetime.

Professor James Davies writes that Jeremiah "was able to form a complex picture of the field of nineteenth-century Schubert reception. He was extremely thorough and flexible in his use of rare and never-commented-on-before materials, such as a large number of early German piano editions. Jeremiah is probably the only undergraduate on campus capable of 'reading' through this precious literature with the requisite fluency."

# 2014 Honorable Mentions

## Sidharth **Goel** '17

*Capitalism Versus the Sharing Economy*

COLLEGE WRITING • PROFESSOR RYAN SLOAN



Sidharth's research paper explores how open source culture and community-driven content are sharing knowledge and ideas that will generate more value in today's economy.

Professor Sloan commends him for being "rigorously reflective, making use of some surprising and interesting research, and taking care to guide the reader through his unfolding understanding of the issues at hand."

## Devin **Murphy** '13

*All Becomes One in the Basin of the Waterfall: Dialectics and Multiple Trajectories of Sāmoan History before 1900*

INTERDISCIPLINARY STUDIES • PROFESSOR RAKESH BHANDARI



Devin spent a semester mostly in campus libraries—including anthropology, Doe and Moffitt, Southeast Asian, and ethnic studies—researching his honors thesis. The result, a comprehensive

history of "pre-contact" Samoa, was described by Professor Bhandari as "a painstakingly researched and well-written piece of work." Reflecting on the process, Devin says that "the Library's resources induced a snowball effect on my thesis: what was originally only required to be a 45-page document ended up being 125 pages. Writing this paper, I began to truly experience myself as an intellectual for the first time."

## Isaac **Wolf** '15

*If You Build it Together, They Will Come: How Three Different Agencies Learned to Work Together to Supply Adequate Water for Phoenix, Arizona*

HISTORY • PROFESSOR FELICIA VIATOR

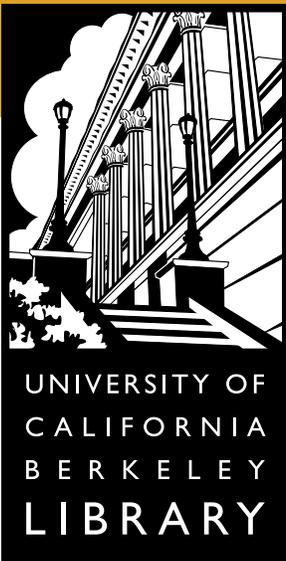


Isaac's senior thesis investigates how the city of Phoenix learned to make the compromises necessary to procure additional water supplies in the years following World War II. He laid

the foundations for his research at Berkeley using materials in the Bancroft and Main Libraries. His faculty sponsor, Professor Viator, notes that she has been inspired by Isaac's "thoroughness and dedication to the process of doing history."

*"The library is not just valuable, it is invaluable. The academic momentum I gained through the process of my research work in the library opened the door to my future; now graduate school is not a vague idea, but is part of my immediate life plan. My assumptions of what knowledge is available, and what kind of research I as an intellectual am capable of, has been forever changed by my experience researching for my thesis in Berkeley's library system, and for that I am eternally grateful."*

—Devin Murphy,  
2014 Library Prize winner



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FIAT LUX, or LET THERE BE LIGHT, is the motto of the University of California. The Fiat Lux newsletter of the Library at the University of California, Berkeley is published quarterly by the Library Development Office, University of California, Berkeley.

Your feedback and suggestions are warmly invited. You can reach us at (510) 642-9377 or [give@library.berkeley.edu](mailto:give@library.berkeley.edu)

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PHOTOGRAPHY  
Peg Skorpinski (p. 2, 7-9)

# THEN & NOW



The photo to the left shows students undergoing agility tests between 1917 and 1925, at the old Running Track, near the current Barrows Hall. Baseball, football, boating and target-shooting were the first sports organized by students, in the 1870s. Campus historian William Jones notes that in 1895 the Athletic Association sent a team of twelve men to compete in track events with their peers in Eastern universities. The team's decisive wins against Princeton, Pennsylvania, and Illinois astonished sports fans, whom we may suspect of prejudice against the upstart young University. The victories, Jones notes, proved that the "young men raised in the milder climate of California fully equal their Eastern cousins in matters of strength and endurance." Moreover, the team's success ignited a latent University spirit, subordinating class loyalties. Songs and cheers were composed in her honor, and the golden bear became her totem.

*With thanks to campus historian par excellence Steve Finacom.*

Cal's women's water polo team, competing against the University of Phoenix in January 2014.



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ALL ARE FREE AND OPEN TO THE PUBLIC.



### A HANDFUL OF CLAY: THE LEGACY OF EDITH HEATH

Environmental Design Library, 210 Wurster Hall  
through September 19, 2014

check [lib.berkeley.edu](http://lib.berkeley.edu) for hours

From just a handful of clay, ceramicist Edith Heath pioneered a design aesthetic that continues to inspire today. Her focus on simplicity, functionality, and durability blends the line between daily use and Sunday best, and continues to have a lasting impact on the design community. Heath products, manufactured since 1948 in Sausalito, have been recognized internationally for their quality and vision. The exhibition explores her life as an artist and ceramicist, as well as her collaborations with architects. Materials come from the Environmental Design Archives, the Brian and Edith Heath Foundation, and Heath Ceramics.

### BIRDS DO IT, BEES DO IT: A CENTURY OF SEX (MIS)EDUCATION IN THE USA

Bernice Layne Brown Gallery, Doe Library

Sept. 1, 2014 – Feb. 28, 2015

check [lib.berkeley.edu](http://lib.berkeley.edu) for hours

From junior high school hygiene films to websites, public health campaigns, scientific studies, children's books, bodice-ripper novels and (sometimes) parents, Americans have always found ways to learn about sex. That information has at times been incorrect or incomplete, and has rarely been delivered without a larger political or moral agenda. While attitudes towards sex education swing from the blissfulness of ignorance to the empowerment of liberation—and back again—every generation finds new ways to answer the old questions. Our desire to learn about desire has not changed. This exhibition draws from the resources of campus libraries, from our academic programs, and from social services provided for the Berkeley campus community.

[give@library.berkeley.edu](http://give@library.berkeley.edu)