



Online Office Hours

We'll get started at 2 ET



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Let us know:

- Your first name
- Grade/Subject
- State



LIBRARY OF CONGRESS

TEACHING WITH PRIMARY SOURCES

Science

Amara Alexander
Danna Bell





April Is Poetry Month
Celebrate poetry by browsing collections, watching readings and learning about the U.S. Poet Laureate. 2/5

TEACHERS

Search this site

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Idea Book for Educators from HISTORY



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Civics Interactives
Congress, Civic Participation, and Primary Sources projects

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[Three Questions with Juliana Mestre, Spring 2019 Teaching with Primary Source Intern](#)

April 9, 2020 by [Danna Bell](#)

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Industrial United States, World Wars and the Great Depression (1914-1945)
Interviews with Experts
Lesson Ideas
National Expansion and Reform (1816-1861)
Native American Heritage
News and Events
Poetry and Literature
Presidents
Primary Source Highlights
Revolution and the New Nation (1764-1815)
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Special Category

World War I

Categories

African American Heritage
Asian American Heritage
Civil War and Reconstruction (1861-1877)
Constitution
Contemporary United States (1945-present)
Copyright
Culture and Folklife
Development of the Industrial United States (1877-1914)
Exploration, Colonization and Settlement (1492-1763)
Fine and Performing Arts
Geography and Maps
Government and Law
Hispanic American Heritage
Holidays

Three Questions with Juliana Mestre, Spring 2019 Teaching with Primary Source Intern

April 9, 2020 by Danna Bell



Meet Juliana Mestre, the Spring 2019 Teaching with Primary Sources (TPS) program Intern in the Library of Congress Young Readers Center. After you read about her experiences, you might be interested in applying for this internship, and more information is available [here](#). The deadline to apply for Fall 2020 is May 4.

What was the most powerful part of the internship?

Each day brought a new opportunity. As the TPS intern I was able to help with a reorganization project, interact with visitors, collaborate on the design and implementation of programming, meet authors, go on tours of different departments, explore reading rooms, research a wide variety of topics, and work alongside some incredible people.

The daily routine also left me curious about the origins of librarianship, which informed my primary source research project. I built my project around the history of traveling libraries, focusing on the ways information was spread at

the beginning of the 20th century and the individuals who were involved.

About This Blog

Special Category

[World War I](#)

Categories

[African American Heritage](#)

[Asian American Heritage](#)

[Civil War and Reconstruction
\(1861-1877\)](#)

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[Contemporary United States
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United States \(1877-1914\)](#)

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[Hispanic American Heritage](#)

[Holidays](#)

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Let's Ride: Roller Coaster Design and Primary Sources

March 31, 2020 by [Danna Bell](#)

This post was written by Amara L. Alexander, 2019-20 Library of Congress Albert Einstein Distinguished Educator, and Matthew Bryant, 2019-20 Albert Einstein Distinguished Educator-Congressional Fellow.

Lina Beecher's Flip Flap Railway was the first looping roller coaster in North America, debuting at New York's Coney Island in the late 1890s, and was known for its engineering design and feeling of acceleration on the passenger's body g-forces – during the ride. Students can analyze the engineering design of this historical roller coaster and then apply they learn to their own design.



The flip-flap

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Classroom Materials: [Lesson Plans](#) | [Primary Source Sets](#) | [Presentations & Activities](#) | [Collection Connections](#)

Created by teachers for teachers, these ready-to-use materials provide easy ways to incorporate the Library's unparalleled primary sources into instruction.

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Common Core

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Organizations



[Primary Source Sets](#)

Sets of primary sources on specific topics.



[Lesson Plans](#)

Teacher-created lesson plans using Library of Congress primary sources.



[Presentations & Activities](#)

Media-rich historical context and opportunities for both teachers and students to explore.

States.

[Student Discovery Set — free ebook on iBooks ↗](#)



[The Dust Bowl](#)

Photographs, recorded music, and song lyrics document the daily ordeals of rural migrant families from the Great Plains during a decade marked by both the Dust Bowl and the Great Depression.

[Student Discovery Set — free ebook on iBooks ↗](#)



[Found Poetry](#)

Using primary source texts on a variety of subjects, students select words to retell the historical content in poetic form



[The Harlem Renaissance](#)

Photographs, authors' drafts, sheet music, an audio recording, and newspaper articles let students explore the artistic and literary legacy of the Harlem Renaissance.

[Student Discovery Set — free ebook on iBooks ↗](#)



[Hispanic Exploration in America](#)

Songs, maps, drawings, paintings, written documents and presentations outline the role of Hispanic explorers in the discovery, exploration, and development of America



[Immigration: Challenges for New Americans](#)

Photographs, maps detailing immigration patterns, official documents, song sheets and streaming audio recount the immigrant experience in America, their reasons for leaving their homelands, and the reactions of established Americans.

[Student Discovery Set — free ebook on iBooks ↗](#)



[The Industrial Revolution in the United States](#)

Maps, songs, photos, and political cartoons tell the story of the United States' transition to an industrial nation

[Student Discovery Set — free ebook on iBooks ↗](#)



[The Invention of the Wright Brothers](#)

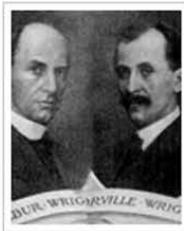
Wilbur and Orville Wright went from repairing bicycles to inventing the airplane. Photographs, newspaper articles, personal letters and telegrams, and official army documents record their experiences and their experiments



[Jamestown](#)

TEACHERS

The Inventive Wright Brothers



Teacher's Guide

Start here for historical context, teaching suggestions, links to online resources, and more:

[The Inventive Wright Brothers Teacher's Guide](#) (PDF, 644 KB)

To help your students analyze these primary sources, get a graphic organizer and guides:

[Analysis Tool and Guides](#) »

Find out which standards this resource meets



Common Core



State Content



Organizations



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Primary Sources

Click the thumbnail for the original item, the caption for information on the item, or download a PDF or MP3.



[Orville Wright to Bishop Milton Wright](#)

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(1.01 MB)



[Penaud-style Ornithopter](#)

[View PDF](#)
(51 KB)



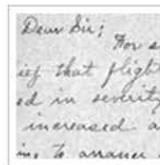
[West Side News](#)

[View PDF](#)
(144 KB)



[Wilbur Wright in Bicycle Shop](#)

[View PDF](#)
(655 KB)



[Wilbur Wright to Octave Chanute, 5/13/1900](#)

[View PDF](#)
(1.44 MB)



April Is Poetry Month

Celebrate poetry by browsing collections, watching readings and learning about the U.S. Poet Laureate.

2/5

Everything

recycle



Library of Congress > Search

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Results: 1-25 of 6,115 | Refined by:

Available Online

Access Condition: Available Online

Refine your results

View

List

Sort By

Relevance

Available Online 6,115

All Items 11,392

Original Format

Periodical 3,084

Legislation 2,192

Book/Printed Material 328

Web Page 322

Photo, Print, Drawing 129

Manuscript/Mixed Material 85

Film, Video 74

Audio Recording 28

Archived Web Site 7

Newspaper 5

Map 4

Event 1



PHOTO, PRINT, DRAWING

Recycle.

1 print : color silkscreen; sheet 60 x 41 cm (poster format) | Poster shows a heap of trash.

Date: 1971



PHOTO, PRINT, DRAWING

Recycle.

1 print : offset; sheet 61 x 39 cm (poster format) | Poster shows pile of objects.

Date: 1970

Back to top



Results: 1-25 of 9,001 | Refined by:

Available Online ✕

Access Condition: Available Online ✕

Refine your results

Available Online 9,001

All Items 9,030

Original Format ▾

Periodical 4,483

Book/Printed Material 2,933

Newspaper 1,193

Web Page 211

Manuscript/Mixed Material 183

Legislation 83

Photo, Print, Drawing 82

Film, Video 20

Audio Recording 1

Notated Music 1

Online Format ▾

View

List

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Relevance

Go



PHOTO, PRINT, DRAWING

Children collecting bronze household goods for the gov't.

1 photographic print. | Photograph shows group of children carrying metal objects.

Date: 1915



PHOTO, PRINT, DRAWING

Save scrap for victory! Save metals, save paper, save rubber, save rags.

1 print on board (poster) : silkscreen, color. | Poster for the Philadelphia Salvage Committee encouraging scrap drives to aid the war effort.

Contributor: Federal Art Project

Date: 1941

[↑ Back to top](#)

PHOTO, PRINT, DRAWING



D-6466



About this Item

Title

Manpower, junior size. It takes a good right arm to collect all the household scrap that's needed for the nation's armaments, and these Roanoke, Virginia youngsters have just what it takes. Note the badge on the boy's collar; it reads: "Lieutenant: Junior Commando Salvage Drive"

Contributor Names

Sarra, Valentino, 1903-, photographer

United States. Office of War Information.

Created / Published

1942 Oct.

Subject Headings

- United States--Virginia--Roanoke

Headings

Nitrate negatives.

Genre

Nitrate negatives

Notes

- Actual size of negative is C (approximately 4 x 5 inches).
- Title and other information from caption card.
- Transfer; United States. Office of War Information. Overseas Picture Division. Washington Division; 1944.
- More information about the FSA/OWI Collection is available at <http://hdl.loc.gov/loc.pnp/pp.fsaowi>
- Film copy on SIS roll 33, frame 259.

Part of

Farm Security Administration/Office of War Information Black-And-White Negatives (170,905)

American Memory (501,950)

Prints and Photographs Division (875,755)

Library of Congress Online Catalog (1,102,387)

Format

Photo, Print, Drawing

Contributors

Sarra, Valentino

United States. Office of War Information

Dates

1942

Location

Roanoke

Roanoke.

United States

Virginia

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LIBRARY OF CONGRESS

TEACHING^{WITH} PRIMARY SOURCES

Wednesday, April 22 at 4:00 pm ET

Scientific Literacy, Citizenship, and History: Analyzing Primary Sources from the Library of Congress

@TeachingLC



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Professional Development

The Library of Congress provides primary source based, graduate use



Home

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in

Science Reference Pages



Notice: Out of an abundance of caution, all Library of Congress research centers will be closed to the public (including researchers and others with reader identification cards) until further notice, to reduce the risk of transmitting COVID-19 coronavirus. All Library-sponsored public programs are also postponed or cancelled through July 1. Online resources and reference services, such as [Ask a Librarian](#), will continue to be available during this time. For more information, see: www.loc.gov/coronavirus.

[General Information](#)[Research Guides By Subject](#)[Science Tracer Bullets](#)[Technical Reports & Standards](#)[Volunteer Internship Program](#)[Lectures, Classes and Other Upcoming Events](#)[View ST&B Webcasts](#)

Featured Webcast

[Martian Mud: Recent Discovery of Organic Matter on Mars](#)

What are Organic Molecules in Martian Mudstones Revealing?

LECTURE & SYMPOSIUM
Science, Technology & Business Division
Mariano S. Diaz Lecture Series

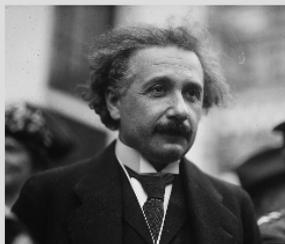
Thursday, September 12th
11:30am - 12:30pm
Mary Pickford Theater

Jennifer Eigenmann

NASA's Curiosity Mars rover recently discovered organic carbon molecules—some of the building blocks of life—in mudstone from a three billion year old Martian outcrop. Dr. Eigenmann will discuss the discovery of these molecules, their origin, and how they may have been preserved.

[Everyday Mysteries: Fun Science Facts](#)[Why do I see my breath when it's cold outside?](#)

New Research Guide

[The Annus Mirabilis of Albert Einstein](#)INSIDE ADAMS
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Location

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Washington, D.C. 20540-4750
Ph. 202 707-5639

Reading Room Hours

Mon., Wed., Thurs., 8:30 a.m. - 9:30 p.m.
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Technical Reports & Standards Hours

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INSIDE ADAMS SCIENCE, TECHNOLOGY & BUSINESS



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Celebrate Innovators and Changemakers on National Inventors Day! Learn about Aviation Pioneers Orville and Wilbur Wright

February 11, 2019 by [Ellen Terrell](#)

This post was written by Michelle Cadoree Bradley, a Science Reference Specialist in the Science, Technology and Business Division.

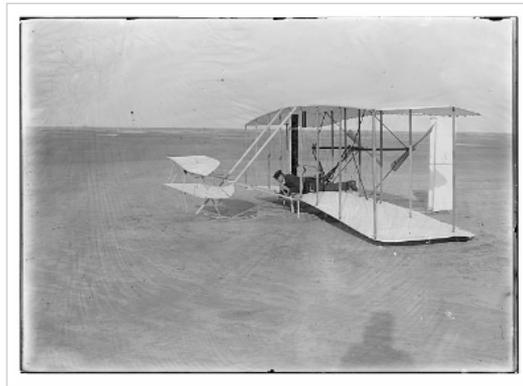
"For some years I have been afflicted with the belief that flight is possible to man," wrote Wilbur Wright in a letter to Octave Chanute in May 1900. (Octave Chanute Papers: Special Correspondence–Wright Brothers, 1900, in [Octave Chanute Collection at the Library of Congress](#)).

Brothers Wilbur and Orville Wright spent years working on powered flight, doing research, and corresponding with others in the field. The process was not smooth and a record of their progress and failures can be found in their diaries and in photographic evidence, such as the picture of their wrecked plane above. Their hard work and perseverance paid off, and on [December 17, 1903](#), they achieved their dream of powered, sustained flight.

For teachers and students wishing to access primary source materials see:

- [The Wilbur and Orville Wright Papers at the Library of Congress](#)
- [The Inventive Wright Brothers. Teacher's Guide](#)

Explore the Wilbur and Orville Wright Papers at the Library of Congress at [//www.loc.gov/collections/wilbur-and-orville-wright-papers/about-this-collection/#overview](http://www.loc.gov/collections/wilbur-and-orville-wright-papers/about-this-collection/#overview)



Wilbur in prone position in damaged machine on ground after unsuccessful trial of December 14, 1903; Kitty Hawk, North Carolina. [//www.loc.gov/item/2001696253/](http://www.loc.gov/item/2001696253/)



Everyday Mysteries

Fun Science Facts from the Library of Congress

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[« Back to Zoology page](#)

Question

How can you tell the difference between a butterfly and a moth?

Answer

One of the easiest ways to tell the difference between a butterfly and a moth is to look at the antennae. A butterfly's antennae are club-shaped with a long shaft and a bulb at the end. A moth's antennae are feathery or saw-edged.



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Resources for Students & Teachers

Science Subject Guide

[Biographies of Women Scientists: For Girls and Young Women](#) (Science Reference Guide)

[BioenergizeME Research Strategy Guide](#) - Companion guide to the Department of Energy Virtual Science Reference Fair (Science Reference Guide)

[Family Fun! Discovering Science at the Library of Congress](#) (Science Reference Guide)

[Girls & Science Education: How to Engage Girls in Science](#) (Science Reference Guide)

[Latinos in Math & Science: Resources for kids, young adults and teachers](#) (Science Reference Guide)

[Resources for Teachers](#) (Selected Internet Resources)

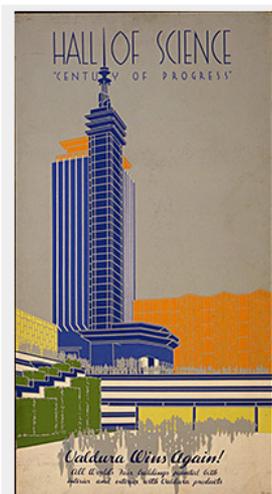
[School Gardens: A Guide to Selected Resources](#) (Science Reference Guide)

[Selected Lesson Topics Using the Library of Congress Science Reference Service Resources](#) (Selected Internet Resources)

[Teaching Astronomy](#) (Science Reference Guide)

Additional resources to consult:

- [General and Multidisciplinary Science](#) (Science Subject Guide)
- [Biography, History of Science](#) (Science Subject Guide)
- [Everyday Mysteries](#)
- [LC Science Tracer Bullets](#)
- [Science, Technology & Business Division Webcasts](#)
- [American Memory](#); (Browse Collections: Technology, Industry)
- [Electronic Databases](#) - Many are available only on Library premises; some are freely available elsewhere



Poster showing the Hall of Science building, by architect Paul Cret, at the 1934 Chicago World's Fair. Prints and Photographs Division, Library of Congress.

Webcasts from the Science, Technology & Business Division

This guide links to webcasts of talks sponsored by the Science, Technology & Business Division

Introduction

Webcasts: 2010 - 2019

Webcasts: 2001 - 2009

Personal Insights on Historical Library Collections by Staff

Introduction

The Library's [Science, Technology & Business Division](#) sponsors a regular series of lunchtime talks given by experts in various fields. Since 2001, these talks have been recorded--and most past events are available on the [Library of Congress Webcasts](#) pages. Many of these talks can also be found through YouTube: [Topics in Science from the Library of Congress](#) [↗](#).

To find out about upcoming events sponsored by the Science, Technology & Business Division, check the listing on the [Science Reference Services](#) home page. Or see [Events at the Library of Congress](#).

Science Reference Services



Have a question? Need assistance?
Use our [online form](#) to ask a librarian for help.

Authors:

Alison Kelly, *Science Research Specialist, Science, Technology & Business Division*

Created: January 9, 2019

Last Updated: February, 2020

Featured Webcast

Apollo at 50: The Lasting Effect of Exploration of the Lunar Surface on Our Current Exploration of the Moon



Science & Technology

The following guides were created by librarians in Science Reference Services. More guides can be found via their website at www.loc.gov/tr/scitech.

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ALL GUIDES

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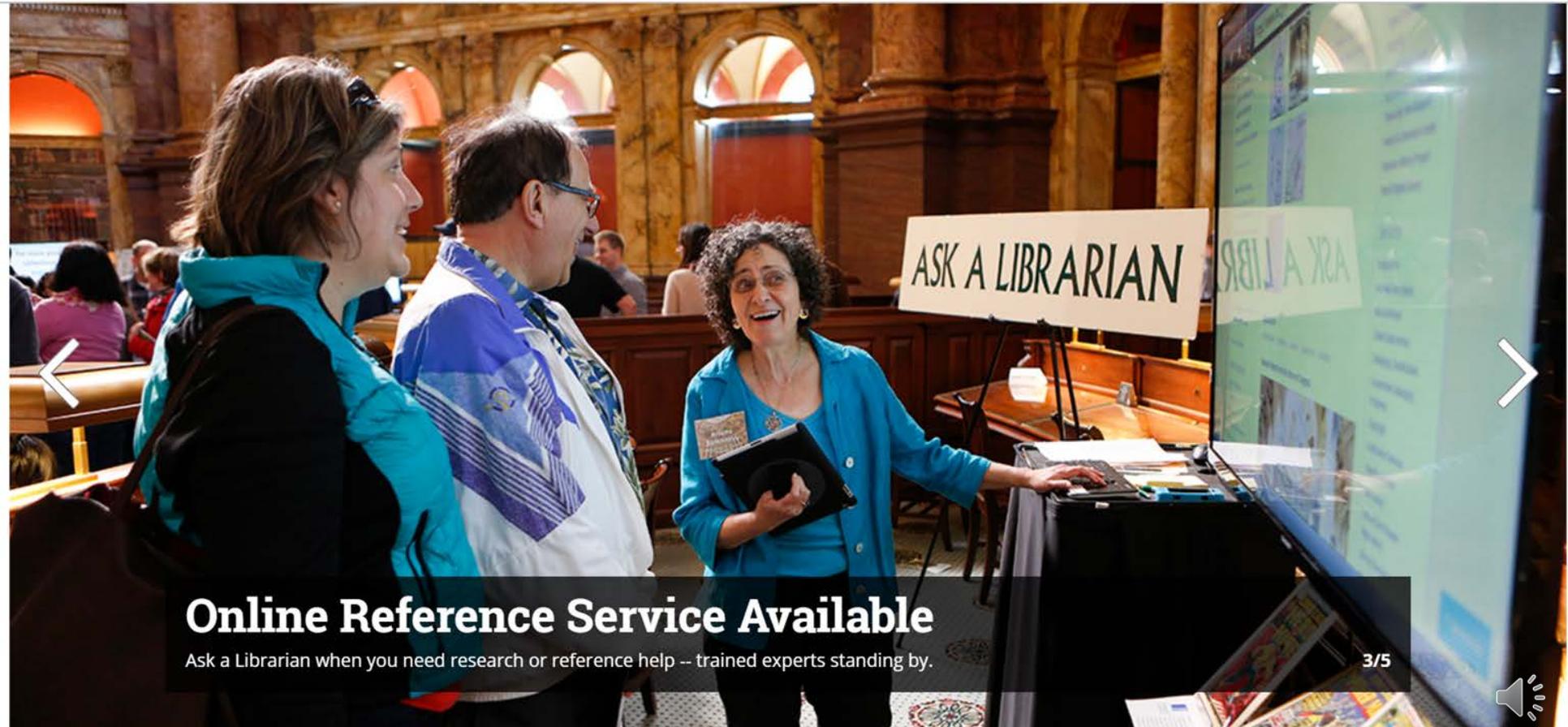
Showing 23 Subjects

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|--|--|
| <div style="display: flex; justify-content: space-between; align-items: center;"> + African American Studies 1 </div> | <div style="display: flex; justify-content: space-between; align-items: center;"> + Economics 1 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> + Agriculture and Horticulture 4 </div> | <div style="display: flex; justify-content: space-between; align-items: center;"> + Energy 1 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> + American History 2 </div> | <div style="display: flex; justify-content: space-between; align-items: center;"> + Environment and Natural Resources 3 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> + American Women History 2 </div> | <div style="display: flex; justify-content: space-between; align-items: center;"> + Environmental Studies 1 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> + American Women Series 1 </div> | <div style="display: flex; justify-content: space-between; align-items: center;"> + Food & Nutrition 4 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> + Anthropology 1 </div> | <div style="display: flex; justify-content: space-between; align-items: center;"> + Gender and Women's Studies 2 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> + Applied Science, Engineering and Technology 5 </div> | <div style="display: flex; justify-content: space-between; align-items: center;"> + Health & Medicine 3 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> + Art and Architecture 2 </div> | <div style="display: flex; justify-content: space-between; align-items: center;"> + Hispanic Studies 1 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> + Biology, Life Sciences and Genetics 6 </div> | <div style="display: flex; justify-content: space-between; align-items: center;"> + History 3 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> + Chemistry 2 </div> | <div style="display: flex; justify-content: space-between; align-items: center;"> + Military Science 1 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> + Computer Science and Information Technologies 2 </div> | <div style="display: flex; justify-content: space-between; align-items: center;"> + Physics and Astronomy 2 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> + Earth Sciences and Geology 2 </div> | |

A-Z Database List

Full list of Databases the library subscribes to, including trial access.

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ASK A LIBRARIAN



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- > [Research and Reference Services](#)

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a Librarian

Have a question? Ask us now! Librarians are available to answer your questions and help with your research. We are happy to help you, but ask for your patience, as many of us are working remotely, and this may impact our access to some Library of Congress materials and our ability to fully respond to your question at this time (but we will do our best!). For more information about the Library's current operating status, see: www.loc.gov/coronavirus

For more specific questions you may also use one of the forms below. Some areas offer online chat during limited hours, indicated by the **CHAT** icon.

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