



## Information Resources Department

Information Resources Staff

ITD Coffee

1<sup>st</sup> November 2023

# Information Resources: Discover, Manage, Share Information

- **Library**

Providing Fermilab scientists, engineers and other staff with the information they need.

- **INSPIRE**

Supporting the broader information needs of the world-wide HEP and astrophysics community.

- **Records Management, Technical Publications Office and History & Archives**

Collecting, organizing, preserving and making available the research output of Fermilab, records documenting the essential business functions of the laboratory and items of lasting historical significance

- **Content Management**

Managing and providing content management services such as SharePoint, DocDB, WordPress, Digital Signage and Indico for the lab

- **Print Services**

Managing the printing needs of the lab.

# INSPIRE

- **Literature:** all the papers, theses and reports in High Energy Physics  
Includes citations (when someone mentions your work, extremely important for scientists)
- **Authors:** ORCID, email, affiliation history, Ph.D. advisor, list of papers  
Now has strict EU GDPR rules (e.g., cannot take email from a web page, only from a paper)
- **Jobs:** jobs of relevance to HEP community, including people wanting to leave HEP but where their skills would be relevant.
- **Seminars:** Introduced during COVID, listings of online seminars  
Calendar and Zoom join links
- **Conferences:** Conferences, workshops & meetings (not internal collab meetings)
- **Collaborations:** both experimental and non-experimental (e.g., Pythia and Geant)

Author

Lia Meringa

Fermilab



ORCID

physics.acc-ph

Experiments: FNAL-E-0778, PIP-II

Author Identifier: L.Meringa.1

PhD Advisors: Lawrence W. Jones, Donald A. Edwards

- 2018-present  
**SENIOR** Fermilab Institution
- 2016-2018  
**SENIOR**, SLAC
- 2008-2016  
**SENIOR**, TRIUMF

Show all positions (7)

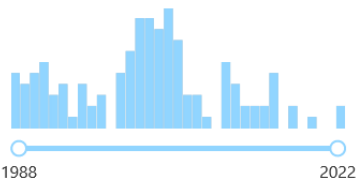
Updated on Sep 7, 2023

✉️ 🐦 🔗 ✎ edit

Research works (130)

Cited By

Date of paper



Number of authors

Single author

6

130 results | 📄 cite all 📄 claim

Citation Summary

Most Recent ▾

Beam Commissioning and Integrated Test of the PIP-II Injector Test Facility Paper #1

PIP-II Collaboration • Eduard Pozdeyev (Fermilab) et al. (Oct 19, 2022)

Published in: JACoW LINAC2022 (2022) 13-17 • Contribution to: LINAC22, 13-17 Conference

📄 pdf 🔗 links 🔗 DOI 📄 cite 📄 claim 🔍 reference search ↻ 2 citations

In-Kind Contributions: The PIP-II Project at Fermilab #2

PIP-II Collaboration • Luisella Lari (Fermilab) et al. (Jul 19, 2022)

Published in: JACoW IPAC2022 (2022) MOPOST020 • Contribution to: IPAC 2022

Search...



<https://orcid.org/0009-0002-7492-7709>

 Is this you? [Sign in to start editing](#)

Name

**Lia Meringa**

## Activities

Works (50 of 130)

Items per page:

Page 1 of 3



### Beam Commissioning and Integrated Test of the PIP-II Injector Test Facility

JACoW

2022-10-19 | Conference paper

# ORCID (/orkid/): Open Researcher and Contributor ID

- Global, not-for-profit organization sustained by fees from member organizations  
Universities, governments, publishers, etc.
- Uniquely identify all researchers and their publications.  
Across name changes, etc.
- Started in 2012. Before that we used “INSPIRE IDs” (still do for ORCIDless people)
- Anyone can register for an ORCID
- ORCID is not protected PII  
Cannot open a bank account with an ORCID
- **DOE** likes us to include ORCID IDs when we submit Fermilab’s papers to them.
- People are asked to include their ORCID in FermiWorks.
- INSPIRE has 43,000+ ORCID IDs from physicists around the world.

# Jobs database

arXiv eprints submitted since Oct 5 are missing due to a technical problem. We are working with arXiv to resolve it.



jobs ▾



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Field of Interest ▾

Rank ▾

Region ▾

open × ▾

398 results

Most Recent ▾

Postdoctoral positions in the Nuclear Theory Group (AJO - 26186) (CCNU, Wuhan, Inst. Part. Phys. • Asia)

hep-lat nucl-th hep-ph hep-th astro-ph PostDoc

**Deadline on Dec 15, 2023**

Posted 9 hours ago

edit

Postdoc in "Noise in Quantum Simulations (NIQ)" (APPO010/2023) (DESY, Zeuthen • Europe)

quant-ph PostDoc

**Deadline on Nov 2, 2023**

Posted 9 hours ago

edit

Tenured or Tenure-Track Faculty Position in Neutrino Physics (527371) (Virginia Tech. • North America)

Feedback



# Records Management

- It is a DOE contractual requirement [Records Management Program \(doe.gov\)](#) that we identify and maintain records that document Fermilab's organization, functions, policies, procedures, and decisions on projects and research.
- Records can be in any form or format, electronic or paper.
- File Plans are being created for all Divisions, listing the record types found in Divisions departments and listing the DOE retention schedules [Records Management - File Plans - All Items \(fnal.gov\)](#)
- For all records retention questions please contact Kathryn Duerr [recordsmgt@fnal.gov](mailto:recordsmgt@fnal.gov) ext 5693



# Entire section in Records Schedule on IT records

DOE Records Disposition Manual  
Transmittal 05  
[Updated to NARA Transmittal No. 27]

General Records Schedule (GRS) 3.1  
Issue Date: August 2022

Item	Records Title/Description	Disposition Instruction	Disposition Authority
030	<p><b>Configuration and Change Management Records.</b></p> <p>Records created and retained for asset management, performance and capacity management, system management, configuration and change management, and planning, follow-up, and impact assessment of operational networks and systems. Includes records such as:</p> <ul style="list-style-type: none"><li>• data and detailed reports on implementation of systems, applications and modifications</li><li>• application sizing, resource and demand management records</li><li>• documents identifying, requesting, and analyzing possible changes, authorizing changes, and documenting implementation of changes</li><li>• documentation of software distribution (including COTS software license management files) and release or version management</li></ul> <p><b>Note 1:</b> If any maintenance activities have a major impact on a system or lead to a significant change, those records should be maintained as part of the Configuration and Change Management Records.</p>	<p><b>Temporary.</b></p> <p>Destroy 5 years after system is superseded by a new iteration, or is terminated, defunded, or no longer needed for agency/IT administrative purposes, <del>but longer retention is authorized if required for</del></p>	DAA-GRS-2013-0005-0005

# Technical Publications

- **Fermilab Reports**

Any work intended for outside distribution written by a Fermilab employee, (or includes Fermilab employees on the authors list) or describes work done using Fermilab facilities **must** receive a Fermilab report number and undergo DOE required internal Export Control and Patent reviews, **before being released outside of Fermilab.**

Can include

Papers for publication in a journal, conference proceedings, presentation slides and posters. We also handle software and experimental data.

Does not include

Internal notes and other non-public material.

FERMILAB-CODE-2019-10	Paterno, Marc	<i>cubacpp</i>
FERMILAB-CODE-2019-09	Lyon, Adam	<i>devenv</i>
FERMILAB-CODE-2019-08	Retzke, Kevin	<i>fifemon-graphql-datasource</i>
FERMILAB-CODE-2019-07	Holzman, Burt	<i>fermilab-qc/docker-quantum</i>
FERMILAB-CODE-2019-06	Neswold, Rich	<i>Protocol Compiler</i>
FERMILAB-CODE-2019-05	Neilsen, Eric	<i>obstac10</i>
FERMILAB-CODE-2019-04	Dykstra, Dave	<i>cvmfs-contrib/cvmfs-user-pub</i>
FERMILAB-CODE-2019-03	Petrov, Andrey	<i>Java Synoptic Toolkit</i>
FERMILAB-CODE-2019-02	Rechenmacher, Ron	<i>TRACE</i>
FERMILAB-CODE-2019-01	Neilsen, Eric	<i>skybright</i>
FERMILAB-CODE-2018-07	Gutsche, Oliver	<i>NoSQL BigData Project</i>
FERMILAB-CODE-2018-06	Hansen, Sten	<i>QuarkNet DAQ Kit</i>
FERMILAB-CODE-2018-05	Einstein-Curtis, Joshua	<i>Resonance Control GUI for LCLS-II ResCtl System</i>

# Tech Pubs Procedures

- Request a Fermilab report number and upload the material <https://techpubs.fnal.gov/>
- Once it has passed CUI, Patent and Export Control reviews, author can make it public.
- The DOE acknowledgement must be on all scientific/technical materials
- All copyright forms must be signed by the Technical Publications Office.
- Papers are entered into INSPIRE and from there sent to DOE via API.
  
- Currently using a Perl CGI script from 2004 to handle the author-facing part.
- SharePoint workflow with much manual input to manage the CUI review.
- Developing unified SharePoint system for submission and review

# Fermilab scientists request a report number and upload PDF

## Technical Publications

### Choose publication type.

- CONF: Conference Report (write up for a conference proceedings, DO NOT use for slides)
- FN: Fermilab Note (other/miscellaneous)
- POSTER: Poster (a poster presentation)
- PUB: Publication (intended for peer-reviewed journal)
- SLIDES: Slides (associated with a talk, DO NOT use for write-ups only for the slide deck)
- TEST: Test
- TM: Technical Memo (about a technique or device)

### Choose organization authors belong to (multiple choices allowed).

- AD     Directorate     ISD     ND     Student program (SIST/GEM/CCI/SULI,URA-Fermilab and Lee Teng internships, etc. [You can also select an additional organization.])
- APS-TD     ESH     ITD     PIP-II     Theory Division
- CMS     Emerging Technologies     LDRD     PPD     None (for Fermilab-wide papers)
- CSAID     HR     LBNF     SQMS     Visitor (only for papers with no Fermilab employees)

### Title of work (can be changed when PDF is uploaded).

# Approval for IP, Export Control (OGC) and CUI (SEMD)



Technical Publications

Share

+ New   Export to Excel   Nintex Forms   Nintex Workflow   ...

All Items\*    

Public... > Pub-Conf

Report Number	Title	Attachments	ORTA Approve/Hold	Export Control Approve/H	CUI Approve/Hold
23-582-AD	EXPERIMENTS ON ELECTRON COOLING AND INTENSE SPACE-CHARGE AT IOTA		-Select-	Approved	-Select-
23-581-AD-DI	WAKEFIELDS IN SUPERCONDUCTING RF CAVITIES AND THE IMPACT ON VUV FREE-ELECTRON LA		-Select-	Approved	-Select-
23-572-STUDENT	Can We Lower the Voltage of a Silicon Module and Still Make It Just as Efficient		-Select-	Approved	-Select-
23-569-V	Coriolis Force Compensation and Laser Beam Delivery for 100-Meter Baseline Atom Interferomet		-Select-	Approved	-Select-



# Fermilab reports by year



# Technical Publications: Accepted Manuscripts

- Peer review maintains quality control for the research community.
- Scientists submit papers to a journal for publication
- Journal sends the paper out to 2 or 3 other scientists for peer review
- Reviewers send back their comments
  - Should be published, should be published with some changes, should not be published
- Original authors respond with their comments
- Can take a few weeks to over a year
- Finally, all agree, and the revised paper is accepted for publication (usually)
- DOE requires us to submit the **Accepted Manuscript** to them for 85% of papers
- Not always easy to find. Sometimes Fermilab author was not closely involved. Much effort required to meet this goal.



# Content Management

- Provides support for all content management technologies

**FermiPoint** (SharePoint): Microsoft content management system, [fermipoint.fnal.gov](https://fermipoint.fnal.gov)

**SharePoint Online**: MS Cloud version, <https://fermicloud.sharepoint.com/>

**DocDb**: Home-grown document management system used by scientists and others throughout the Lab

DocDB instances: 63

Documents: 200k (400k revisions)

Disk space 6TB

Annually 350k visits, 3M pages, 7M hits

**Indico**: CERN-developed event mgmt system, handling ~4,000 conferences and meetings per year.

**WordPress**: User-friendly web site management system with Lab branded templates. We provide training.

**MediaWiki**: The software developed to run Wikipedia.

## Content Management (2)

- Partner closely with ESO-WSA, who supports the infrastructure
- Drive enterprise Search

<https://insidesearch.fnal.gov> the authenticated version for Fermilab community (SSO)

<https://search.fnal.gov> the version for the public

- Maintain existing travel system, event management and TSW/ORC (for outside scientists wanting to use our test particle beam)
- Developing Vector, a logbook system for magnet development

# In House Production Printing

- High quality printing on a variety of paper stocks up to 12x18  
*postcards, square fold booklets, certificates, training materials, brochures, event name badges, bound books, posters, folders, envelopes, labels, etc.*
- Offline document folding in a variety of sizes
- Scanning color or b/w documents to pdf or jpg
- Data merge to add address, photos etc. to prints
- Adhesive application for note pads
- Cutting large stacks of documents
- Passport/Visa photos



# In House Large Format Printing

- Printing, laminating and mounting up to 44in x 8ft
- Printing on satin fabric and heavy duty fabric
- Grommet prints for hanging



# Outsource Printing

For capabilities not available on site, we are part of the GPO Express Program which allows us to outsource printing to FedEx Office.

- outdoor aluminum signage
- stickers
- magnets
- large back drops
- 2-part forms
- peel and stick graphics
- printing on PVC
- printing on clear vinyl
- printing on corrugated plastic

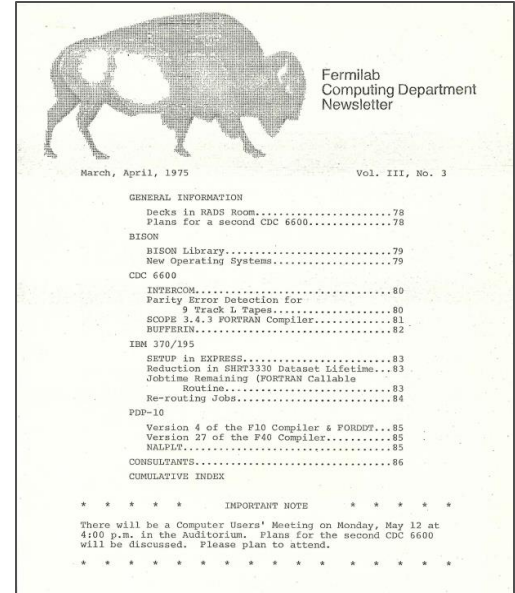
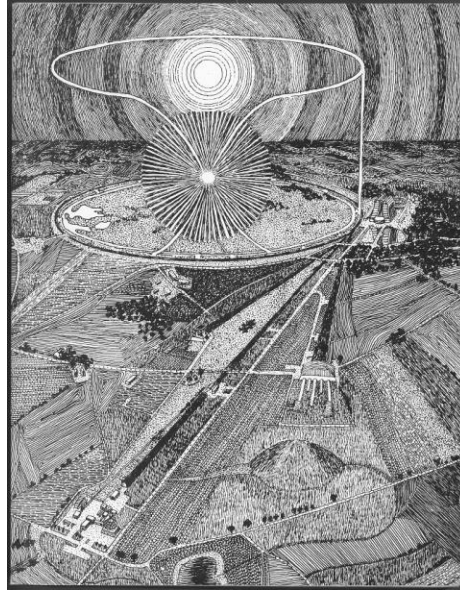


# Managed Print

- Provides an efficient, effective and environmentally friendly printing infrastructure at Fermilab
- OMPlus software runs printing, can send a job to any printer
- Supports Fermilab's fleet of 185 print devices including 3 located in South Dakota
- Assess the print needs of individual departments to provide them with the appropriate device
- Devices, parts, toners and service are covered under Managed Print. Users are only responsible for paper used. Toner level monitoring and on-site support.
- Printer issues and inquiries are handled through a Service Now ticket or by calling the Service Desk

# History and Archives

- The Fermilab Archives identifies, collects, organizes, preserves, describes, and makes available records with long-term historical value.



# History and Archives – Overview

- Materials are stored in Wilson Hall, in a house in the Village, at an offsite records storage facility, and digitally.
- The Archives provides information and documents for people affiliated with the lab and for members of the public.
- We frequently coordinate with the Office of Communication when responding to reference requests from the public.
- We also do oral history interviews with people who have had long-time affiliations with the lab.
- We also do outreach activities, such as public talks on the history of the lab.





# History and Archives – History Website

- history.fnal.gov
- Find information about the history of the lab, digital collections (including scanned copies of all the printed issues of the lab's newsletters), historical articles from lab newsletters, historical images, finding aids for collections, and more.

**Fermilab** Home About Science Jobs Contact Phone Book  
Newsroom DUNE at LBNF Come visit us Resources for

## History and Archives

Welcome to the Fermilab History and Archives Office

Fermilab is the premier particle physics and accelerator laboratory of the United States, and the Fermilab History and Archives Office documents the lab's more than 50-year history and the history of the field of high-energy physics. The Fermilab History and Archives Office collects, organizes, and makes available records and objects of enduring value, conducts oral history interviews with lab employees and users, responds to inquiries related to the history of Fermilab and high-energy physics, and shares the history of the lab through talks, publications, exhibits, social media, and the History and Archives website.

### History and Archives

- About History and Archives
- History of Fermilab
- Contact Us
- Site History Committee

### Collections

- Historical Articles by Subject
- Digital Collections
- Presentations and Publications
- Virtual Exhibits

### Guides

- Finding Aids
- Oral Histories

SEARCH the site:

ENHANCED

#### SITE HISTORY COMMITTEE

This committee organizes the annual "Farmers Picnic" for people who used to live on the Fermilab site before the lab was established and their families.

#### HISTORICAL INFORMATION

These are articles from Fermilab publications that are organized by subject. The selected articles provide overviews of many aspects of Fermilab's history.

#### DIGITAL COLLECTIONS

These are digitized collections of Fermilab publications, including a searchable collection of the lab's newsletters, the Village Crier and FermilabNews.

#### PRESENTATIONS

#### VIRTUAL EXHIBITS

#### GUIDES

# History and Archives – History Website

## Tevatron

The design effort for the Tevatron, originally known as the Energy Doubler, officially began in September 1972. The Department of Energy authorized construction of this superconducting accelerator on July 5, 1979. It would be installed in the Main Ring tunnel, beneath the Main Ring accelerator. The lab put the final Tevatron magnet in place on March 18, 1983, and the Tevatron achieved a world-record energy of 512 GeV on July 3 of that year. Meanwhile, the lab had begun work on the design for the Antiproton Source, a key part of the planned proton-antiproton collider aspect of the Tevatron, in 1981. The Antiproton Source was completed in 1985, and the first antiprotons circulated around the Tevatron on October 12, 1985. When it was complete, the Tevatron could deliver beams of protons to the fixed target experimental areas or collide the beam of protons with a beam of antiprotons traveling in the opposite direction. These collisions were observed by Fermilab's experiments CDF and DZero.

Originally, the Main Ring delivered protons to the Tevatron. Fermilab upgraded its accelerator complex by replacing the Main Ring with the Main Injector, which began delivering protons to the Tevatron in 1999. At its peak, the Tevatron could produce particle collisions with energies of over 2 TeV. The lab shut down the Tevatron on September 30, 2011.

- [The Tevatron 1979-1989](#)
- [Milestone: Switchyard Operates Refrigerator](#) — June 8, 1978
- [Well Done!](#) — January 7, 1982
- [Noise, Fog, Mean Successful A-Sector Test](#) — March 4, 1982
- [TeV I Antiproton Source Moves Ahead](#) — March 18, 1982
- [No, it is not a New Yellow Wienermobile](#) — October 14, 1982
- [E-F Sector Cooldown "Looks Good" for November](#) — October 14, 1982
- [Work Continues on Energy Saver](#) — December 2, 1982
- [Begin Energy Saver/Doubler Commission](#) — December 16, 1982
- [Doubler Developments](#) — April 28, 1983
- [Saver Reaches Goal, Sets Energy Record!](#) — July 7, 1983
- [Nat'l Medal of Technology to Edwards, Lundy, Orr, Tollestrup](#) — October 27, 1989
- [Staff and Users Celebrated the Tevatron's Last Beam - September 30](#) — October 3, 2011

# History and Archives – Safety

- This is a tool we use to move boxes from one shelf to another.
- We also check in regularly if anyone is alone in a storage space.



# History and Archives – Contact

- If you find documents or other items that you believe may have historical value, or if you are interested in participating in the oral history program, reach out to Valerie Higgins at [vhiggins@fnal.gov](mailto:vhiggins@fnal.gov) or Karin Kemp at [kkemp@fnal.gov](mailto:kkemp@fnal.gov)
- You can see daily historical Fermilab images @ValerieH137



# Library

- The Fermilab Library's mission is to support high energy physics research and development at Fermilab, and to support the high energy physics community worldwide.
- Our collection includes online access to scientific journals, research databases, electronic books, and engineering standards via IP recognition, SSO, and proxy links. The library also has a small print collection of relevant resources on the 15th floor of Wilson Hall.
- The library can also provide many more resources through interlibrary loan.



# Library – Website

- [library.fnal.gov](http://library.fnal.gov)
- Find online resources and standards, access our book catalog, and request materials.

**Fermilab**

Home | About | Science | Jobs | Contact | Phone Book

Newsroom | DUNE at LBNF | Come visit us | Resources for

**Fermilab Library**

**About**

- About the Fermilab Library
- Fermilab Library FAQ's
- Fermilab Library Staff

**Resources**

- Book Catalog
- Electronic Resources
- Engineering Standards
- Federated Search Portals
- INSPIRE
- Journal List
- WorldCat

**Information**

- Copyright Guidelines
- Off Site Access Instructions – Publisher Options
- Off-site Access Instructions – Remote Desktop
- Open Access Publishing Costs

Welcome to the Fermilab Library [Library@fnal.gov](mailto:Library@fnal.gov)

The Fermilab Library provides support for researchers at the lab, and for the high energy physics community worldwide. We provide access to eBooks, online journals, databases, and engineering standards to those affiliated with the lab. We share our resources outside the lab via interlibrary loan. The Fermilab Library is part of the Information Resources Department, which also facilitates Fermilab's contributions to INSPIRE, the one-stop information platform for the HEP community, concentrating on Literature Records, Jobs, and Author Identity.

**BOOK CATALOG**

This is the online catalog for books and ebooks in the Fermilab Library collection. Access currently requires authentication. For external access, use WorldCat.

**DIGITAL RESOURCES**

This is a list of our subscription databases and licensed accounts, including links for on and off site access. Off site access requires authentication.

**JOURNAL LIST**

This is a list of our subscribed journals, including links for on and off site access. Off site access requires authentication.

**ENGINEERING STANDARDS**

This is a list of all print and site-licensed engineering standards, including links for on and off site access. Off site access requires authentication.

**MATERIALS REQUEST**

We welcome purchase requests for articles, ebooks, journals, engineering standards, online resources, and other services. Use our request form, or ask a librarian.

**OFF-SITE ACCESS**

Instructions to access subscription content from off site can be found here, including access via proxy links, SSO, and institutional logins. For our Remote Desktop option, click here. Authentication Required.

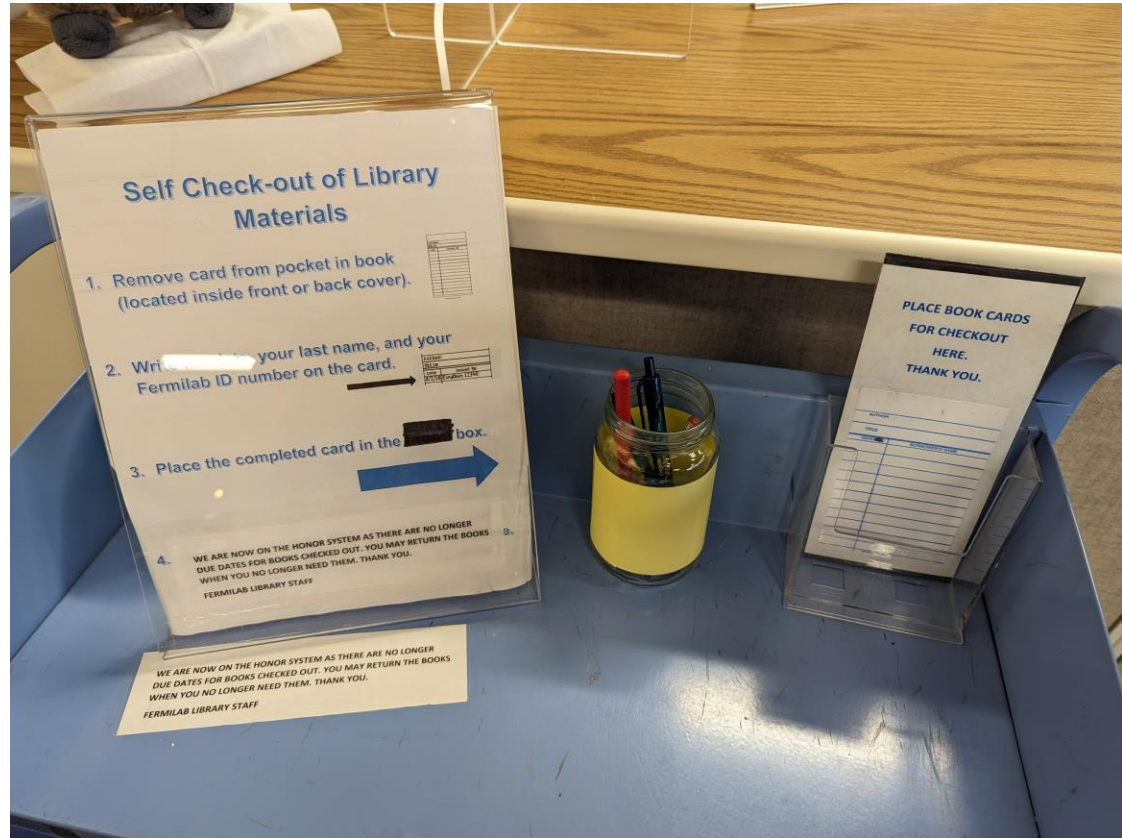
# Library – Come visit us on the 15th floor

- The library is available 24/7 to people with Wilson Hall access.



# Library – Come visit us on the 15th floor

- If no one is at the desk, you can still check out books by leaving the book card in the provided box.





# Library – Safety

## Shelving books

- Hold books with a solid grip; if the book is heavy or oversized, use both hands.
- When taking a book off a shelf, especially if it is higher than shoulder height and/or is heavy or oversized, put one hand underneath the book so as not to drop it – so there is no damage to book or to you.
- Remove a book from the shelf by gripping on both sides of the spine at the middle of the book (push in the neighboring books on both sides to get a good grip) rather than by tugging at the top of the spine.

# Library – Safety

## Shelving books

- If moving more than one book, use a book truck.
- Don't overfill book trucks and make sure the load is balanced.
- Always push book trucks in front of you, never pull them behind you.
- Wear sturdy, close-toed shoes.
- Remember, moving a book truck uses the whole body—shoulders, wrists, knees, and ankles.



# Library – Contact

- Send questions and requests to [library@fnal.gov](mailto:library@fnal.gov)
- Teresa Graue Witt and Mary Cook

# DOE G 450.4-1C, Integrated Safety Management Guide: *Attachment 10, Safety Culture Focus Areas and Associated Attributes*

- **EMPLOYEE/WORKER ENGAGEMENT**
- Personal commitment to everyone's safety
- Teamwork and mutual respect
- Participation in work planning and improvement
- Mindful of hazards and controls