

Faculty Senate Library Committee Update

September 15, 2020



Members of the 2020-2021 Faculty Senate Library Committee

Sebnem Duzgun, Chair – Faculty Senate, Mining Engineering

Sumit Agarwal – Chemical & Biological Engineering

Paula Farca – Humanities, Arts and Social Sciences

tbd – 2020-2023 faculty representative

Anna Seiffert – Head of Collections Management, Library

Carol Smith – University Librarian, Library

Griffin Hampton – Undergraduate Representative

Moath al-Qaod – Graduate Representative



Today

1. Library & Signature Student Experience
2. 2020-2021 Library Budget



The Library & the Mines@150 Signature Student Experience



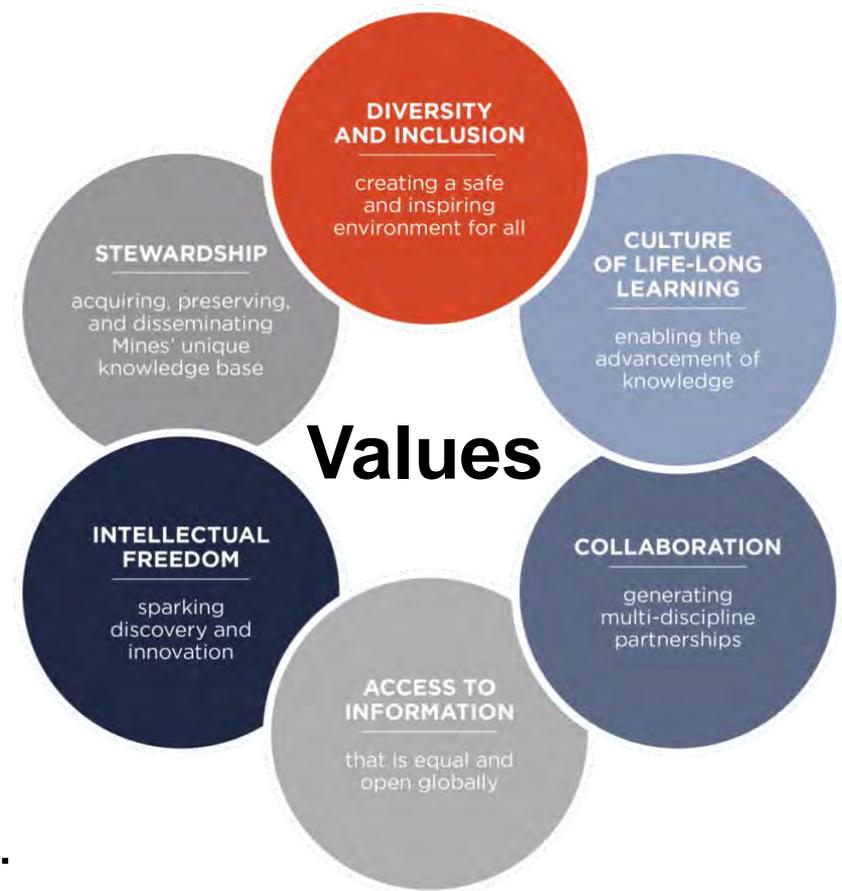


Mission

We foster a rich and **responsive** information environment that empowers learning, discovery, critical thinking, and knowledge creation for Mines and a sustainable global **society**.

Vision

The Arthur Lakes Library is the **collaborative partner** and intellectual **nexus** that **bridges** disciplines and **communities** across the Mines campus.





Mines @ 150
Imagine that all students are...

“... welcomed.”





International Corner @ Arthur Lakes Library



Little Free Arabic, Chinese, & Indian Subcontinent Libraries for international students

Capsule Collection

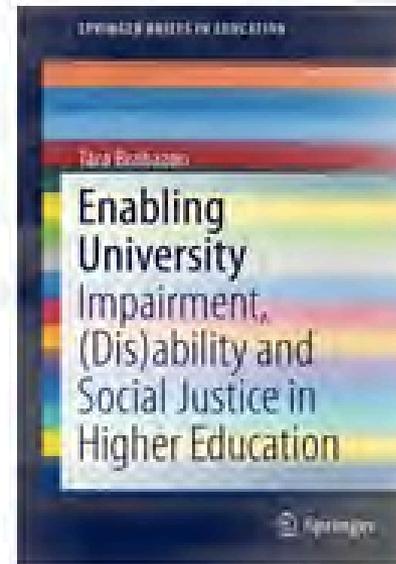


Teaching with a Global Perspective

Practical Strategies from Course Design to Assessment



Devin Skowron
and Robin Phillips



Successful STEM Mentoring Initiatives for Underrepresented Students

A Research Guide
for Faculty & Academic Advisors

Stacy Wei-Ling Packard

Arthur Lakes Library conducted a diversity, equity, and social justice assessment to identify the need for collection materials that aren't normally included in the University curriculum. Resulting purchases focus on current events and global initiatives including movements involving women, the LGBTQ+ community, persons of color and the intersection between them. **The full collection is located in the Browsing Room on the 2nd floor.**

I ❤️ MY MINES LIBRARY

Because...

It makes
me feel at
home

@ArthurLakesLib





Mines @ 150
Imagine that all students are...
“...positioned for success.”



ARTHUR LAKES LIBRARY scholars HUB

GET HELP WITH:

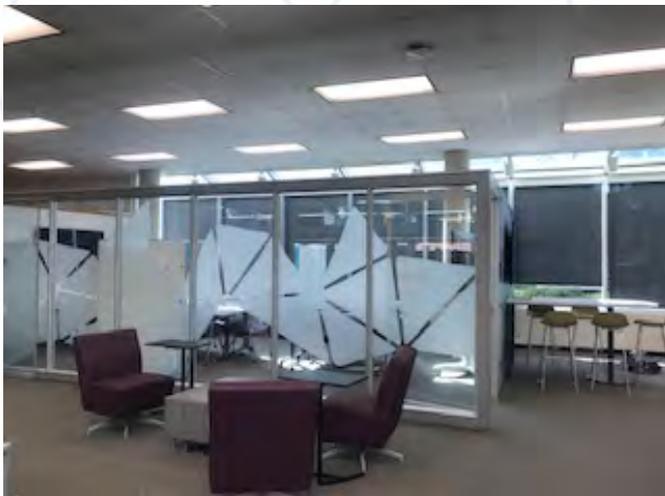
- + Research
- + Instruction
- + Scholarly Publishing
- + Data Management
- + Engagement



Scholars Hub

Scholars Hub: A library center for consultations on: scholarly publishing, research data management, open access, research data lifecycle, engagement, information literacy instruction, information research & discovery.

- Debuted Fall 2019





INSTRUCTION

Partner with a librarian to integrate research resources and assignments into your course.

Consider using online tools to support your students' learning, such as social media, wikis, and more.

Research online for your next class assignment.

Use online resources to support your students' learning, such as social media, wikis, and more.

Research online for your next class assignment.

SCHOLARS HUB

OPEN EDUCATIONAL RESOURCES

open educational resources (OER) are freely available materials for teaching and learning

OER IS IMPORTANT TO YOU

OERs are free for students to access and for instructors to modify. OERs decrease the costs of textbooks and other class supplies. They allow instructors to easily pick and choose parts of resources to use.

Learn more at <http://libguides.mines.edu/oer>

The 5 R's of Open Education

WHAT IS AN OPEN EDUCATIONAL RESOURCE (OER)?

Open Means: *Openly licensed, accessible, and reusable*

- Retain**
Use or reuse the work as you wish.
- Reuse**
Use the work in your own course.
- Revise**
Use the work, adapt, or improve the work.
- Remix**
Combine parts of work to create new work.
- Redistribute**
Use and share the work with others.

Promoting Open Education Resources (OER)

- **2020:** Hired a graduate student OER Fellow; created OER Champion course for faculty
- **2020:** Issued \$38K in OER faculty incentive grants, funding 14 projects that **save student \$63K/year**
- **2019:** Issued \$30K in OER faculty incentive grants, funding 11 projects that **save students \$279K/year.**
- **2018:** Funded and mentored **student OER research** and scholarly presentations.



Mines students presenting their OER research.

Promoting **Open Access** via Open Access Week events, Colorado Open Scholarship conference, more.

OPEN ACCESS WEEK

LEARN THE BENEFITS OF OPEN RESEARCH
OCTOBER 22 – 28

Roel Snieder
Department of Geophysics
68 open access articles

YOUR PROFESSORS PUBLISH OPEN ACCESS

Lincoln Carr
Department of Physics
61 open access articles

Reed Maxell
Department of Geology & Geological Engineering
47 open access articles

OPEN ACCESS means research output is disseminated freely online and it saves you money

<http://openaccessweek.org/>
<https://libguides.mines.edu/OAW2016>
#minesOA

ARTHURLAKESLIBRARY
COLORADO SCHOOL OF MINES

OPEN ACCESS | OPEN EDUCATIONAL RESOURCES | OPEN DATA

Colorado Open Scholarship Series | April 10-14

Monday, April 10, 2017
12:00pm - 1:00pm
University of Colorado | Center for Open Access | Center Library, Room 300
Building Campus Support for Open Access
Presentation by Heather Joseph

Tuesday, April 11, 2017
10:00am - 11:00am
University of Colorado | Center for Open Access | Center Library, Room 300
Leading the Call for Open Data
Presentation by Heather Joseph

Wednesday, April 12, 2017
10:00am - 11:00am
University of Colorado | Center for Open Access | Center Library, Room 300
The Role of Open Educational Resources & Affordable Course Materials
Presentation by Heidi Allen

Thursday, April 13, 2017
10:00am - 11:00am
University of Colorado | Center for Open Access | Center Library, Room 300
Open Open Educational Resources: Reducing Costs, Expanding Access, Improving Quality
Presentation by Heidi Allen

SPARC*
SPARC (Society for Publication and Academic Resource Council) works to enable the open sharing of research, scholarly and educational content. We promote open access to research, knowledge, scholarly discourse, and research materials and education.

The Colorado Open Scholarship Series is sponsored by:

- UNIVERSITY LIBRARIES | University of Denver | Anderson Academic Commons
- ARTHURLAKES LIBRARY | Colorado School of Mines
- AURARIA LIBRARY | Seward University of Colorado Denver, Metropolitan State University of Denver & Community College of Denver
- HEALTH SCIENCES LIBRARY | University of Colorado | Anschutz Medical Campus
- KRAEMER FAMILY LIBRARY | University of Colorado | Colorado Springs
- UNIVERSITY LIBRARIES | University of Colorado | Boulder

OPEN ACCESS WEEK

LEARN THE BENEFITS OF OPEN RESEARCH
OCTOBER 22 – 28

OCT 25 Student Panel Discussion: OER (Open Educational Resources) @ Mines
12-1pm Library Boettcher Room

FREE LUNCH PROVIDED

OER aka FREE TEXTBOOKS
open educational resources (OER) are freely available materials for teaching and learning

OER saves students' money, saves instructors' time, and enables open pedagogy. Come and learn about how students are promoting OER adoption at Mines.

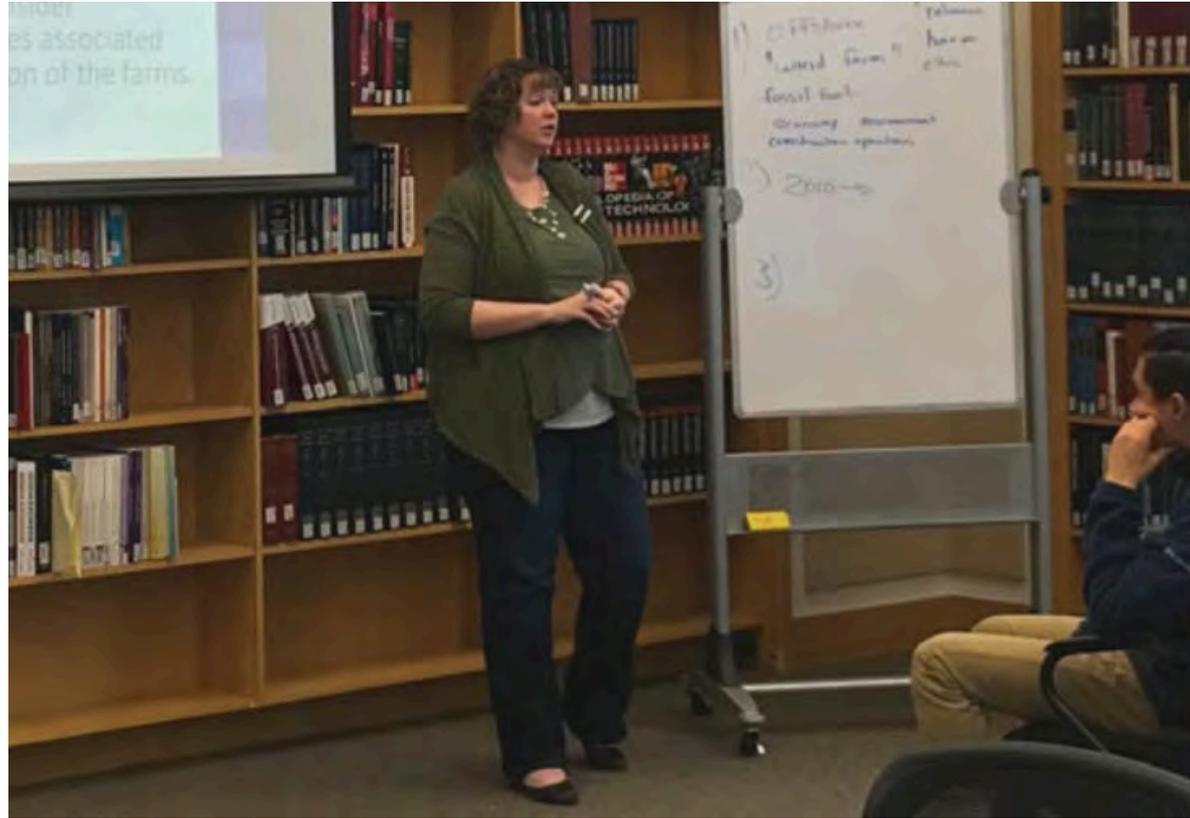
Panelists:
Sarena Nguyen, Erick Gomez, Torin Johnson, Ye Li

<http://openaccessweek.org/>
<https://libguides.mines.edu/OAW2016>
#minesOA

ARTHURLAKESLIBRARY
COLORADO SCHOOL OF MINES

Library faculty directly position students for success:

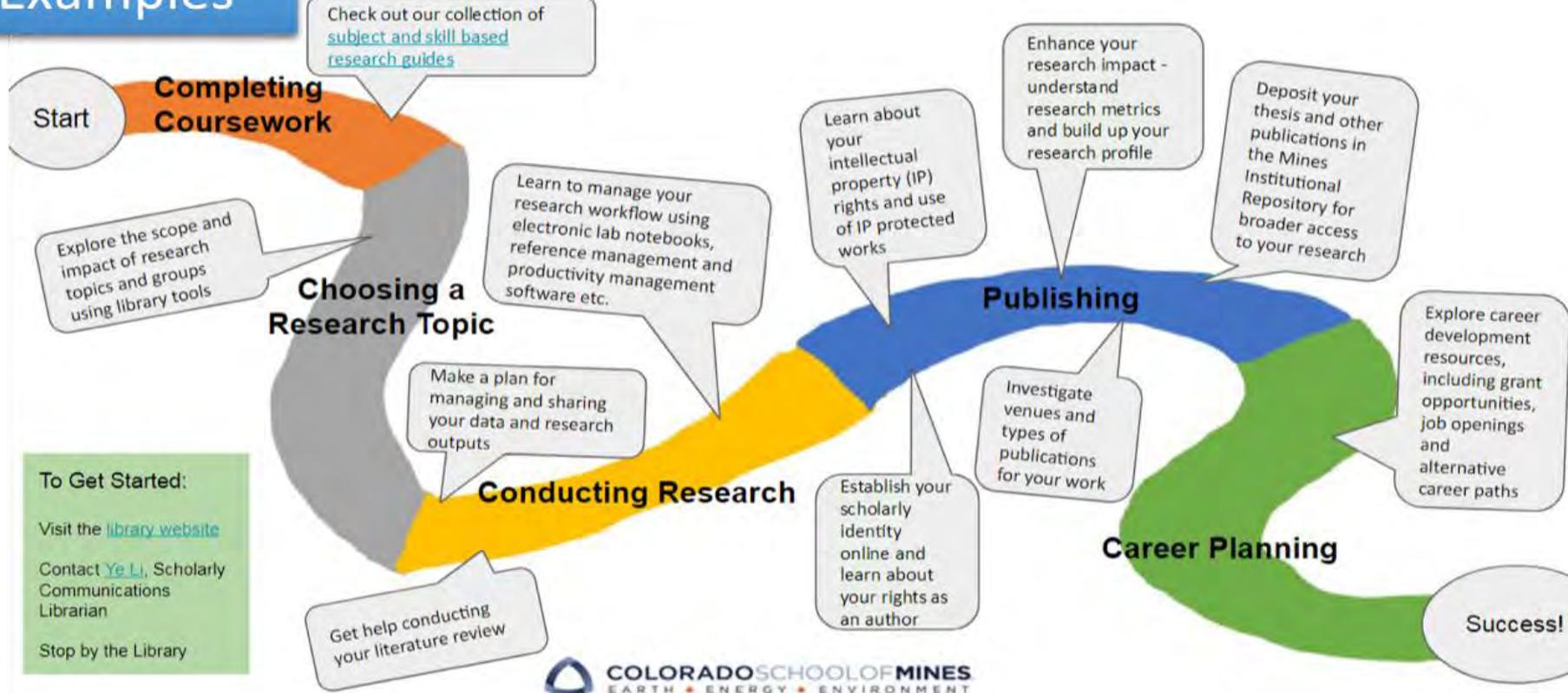
- Lead > 120 Design I **research consultation sessions** each year
- Scaffold **information literacy instruction** throughout the curriculum
- Lead undergraduate and graduate **workshops**
- Organize **research retreats**
- Teach **CSM101**
- More...



Teaching & Learning Librarian Brianna Buljung

Information Literacy Instruction

Examples



Four Years of Instruction

4 YEAR OVERVIEW

12 Academic terms

282 Courses & Events

89 different faculty

564 Course Sections

15,448 Students

Academic Year Totals

2016 – 17

115 Sections

3177 Students

2017 – 18*

169 Sections

4435 Students

2018-19

147 Sections

3251 Students

2019-20

133 Sections

4585 Students

Library Research Sessions and Retreats



NHV RESEARCH PIZZA PARTY

BRING YOUR WORK & QUESTIONS



Library, Boettcher
Room

HELP STATIONS:

- * PEER REVIEW
- * QUESTIONS FOR FACULTY
- * LIBRARIAN HELP
- * WRITING CENTER
- * CITATION & SOURCES

November 16th, 2017

4:30-6:30pm



Undergraduate and Graduate Workshop Series

UNDERGRADUATE RESEARCH SCHOLARS
& THE ARTHUR LAKES LIBRARY

presents

FALL 2019 EMERGING SCHOLARS SEMINAR SERIES

The Emerging Scholars Seminar Series offers weekly seminars on various topics that are of interest to undergraduate researchers. Please take a look at these workshops and register for any seminars that seem of interest to you. You can view all workshops and RSVP at:

[https://www.mines.edu/
undergraduate-research/
workshops/](https://www.mines.edu/undergraduate-research/workshops/)

HAVE QUESTIONS? CONTACT
UGRESEARCH@MINES.EDU



SEPT 19 **Navigating Library Resources**

Times: 4 – 5 p.m.
Location: Arthur Lakes Library Scholars Hub
Presenters: Brianna Brungay & Emily Bongiovanni

SEPT 25 **Lab Safety**

Times: 3 – 4 p.m.
Location: Marquez Hall 322
Presenter: Cory Smith

SEPT 26 **Lab Safety**

Times: 4 – 5 p.m.
Location: CoorsTek 130
Presenter: Cory Smith

OCT 3 **Learn about Reuleaux**

Times: 4 – 5 p.m.
Location: Arthur Lakes Library Scholars Hub
Presenters: Tyler Pritchard & Austin Monaghan

OCT 9 **Intro to Overleaf & LaTeX**

Times: 4 – 5 p.m.
Location: Arthur Lakes Library Scholars Hub
Presenters: Lakshmi Krishna & Emily Bongiovanni

OCT 17 **Fostering Your Own Research Self-Efficacy**

Times: 4 – 5 p.m.
Location: CoorsTek 130
Presenters: Lakshmi Krishna & Alyce Horan

OCT 24 **What Makes an Expert?**

Times: 4 – 5 p.m.
Location: Arthur Lakes Library Scholars Hub
Presenter: Kristine Coltan

OCT 30 **Leveraging Undergrad Research Experience in Industry**

Times: 4 – 5 p.m.
Location: Marquez 235
Presenters: Julie Lyons, Google

NOV 6 **Applying to REU Programs**

Times: 4 – 5 p.m.
Location: Arthur Lakes Library Scholars Hub
Presenter: Lakshmi Krishna

MODERN RESEARCHER 101

WORKSHOP SERIES FOR GRADUATE STUDENTS

Location: Library's Boettcher Room

Free lunch for registered attendees

For info & to register:
<https://libguides.mines.edu/researcher101>

- Sept 4 12-1:30pm **MAKE AND DELIVER A GREAT PRESENTATION**
Brady McBride, Mines Graduate Student
- Sept 11 12-1:30pm **WORKING WITH YOUR ADVISOR**
Roel Snieder, Director of the Center for Professional Development Education
- Sept 18 12-1:30pm **VIOLA! AUTOMATED BIBLIOGRAPHIES AND IN-TEXT CITATIONS**
Emily Bongiovanni, Scholarly Communications Librarian
- Sept 26 12-1:30pm **EFFECTIVE TEACHING PRACTICES**
Sam Spiegel, Director of the Trefny Innovative Instruction Center
- Oct 3 12-1:30pm **TIPS ON WRITING PROPOSALS**
Alyce Horan, Writing Center Director & Erika Jerme, ORA Proposal Manager
- Oct 16 12-1:30pm **ATTRACTING INDUSTRY FUNDING**
Roel Snieder, Kip Findley, & Paul Sava
- Oct 24 12:30-2pm **BUILDING AND MAINTAINING YOUR SCHOLARLY IDENTITY**
Emily Bongiovanni, Scholarly Communications Librarian
- Oct 30 12-1:30pm **MENTAL WELLNESS AND SELF-CARE**
Lauren Jensen & Emma Griffiths from Mines Health Center
- Oct 31 12:30-2pm **INTRODUCTION TO WORKING WITH LATEX**
Lakshmi Krishna, Director of Undergraduate Research & Emily Bongiovanni
- Nov 7 12:30-2pm **INTRODUCTION TO MANAGING AND SHARING RESEARCH DATA**
Emily Bongiovanni, Scholarly Communications Librarian
- Nov 13 12-1:30pm **CONFLICT RESOLUTION**
Roel Snieder, Director of the Center for Professional Development Education
- Nov 20 12-1:30pm **SEMESTER WRAP-UP CELEBRATION**
Attendees and presenters from any of the workshops welcome to come celebrate



Scholarly communications workshops tailored to both undergraduate and graduate students.

GRADUATE STUDENT GOVERNMENT
COLORADO SCHOOL OF MINES

Workshop for Mines Graduate Students

BUILDING UP YOUR SCHOLARLY IDENTITY

MODERN RESEARCHER IDI WORKSHOP SERIES | LIBGUIDES.MINES.EDU/RESEARCHERID

Your scholarly identity online allows you to track your research output, build your research and career network, and showcase your research impact. Join this workshop and learn how to establish and maintain your scholarly identity via

- Creating your ORCID ID (orcid.org) and populate your record
- Making the best out of other online profiles and network for scholars such as Google Scholar Profiles, ResearchGate, and Mendeley etc.
- Understanding research information ecosystem and tracking your research output

Time: 12–1:30 PM
Thursday, Feb 15, 2018

Location: Bonitcher Room Library

RSVP by Feb 13 at go.ualf.com/tdvce2SVmY1JL0M

Free lunch provided by Graduate Student Government

ORCID
Connecting Researchers and Researchers

- Research Information Management System
- Funding Agencies
- Publishers / Manuscript Submission Systems
- Open Access Repositories and Preprint Servers
- Databases + Impact metrics
- Research & Scholarly Societies

Instructor:
Ye Li
Scholarly Communications Librarian
yl@mines.edu
303-773-3684
Contact Ye for any questions or suggestions on the workshop series

COLORADO SCHOOL OF MINES
EARTH • ENERGY • ENVIRONMENT

GRADUATE STUDENT GOVERNMENT
COLORADO SCHOOL OF MINES

Workshop for Mines Graduate Students

MODERN RESEARCHER IDI

USING LaTeX FOR COLLABORATIVE AUTHORING

LIBGUIDES.MINES.EDU/RESEARCHERID

LaTeX is a useful tool to create professional-looking document, which allows you to focus on contents and let the syntax and the computer to take care of the formatting. Cloud-based collaborative LaTeX editing tools, such as Overleaf, Authorea, and Typeset etc., are enabling collaborations among LaTeX experts and beginners. In this workshop, we will use Overleaf.com as an example to learn

- Basic formatting with LaTeX including images, tables, and references
- Templates and export options
- Collaborative LaTeX authoring and version control
- Connectivity to other tools including reference management tools, preprint servers, and repositories

Time: 12–1:30 PM
Thursday, May 1, 2018

Location: Bonitcher Room Library

RSVP by Oct 29 at go.ualf.com/2018-04

Free lunch provided by Graduate Student Government

The L^AT_EX Project | **Overleaf**

LaTeX, Evolved

The easy to use, online, collaborative LaTeX editor

Instructor:
Ye Li
Scholarly Communications Librarian
yl@mines.edu
303-773-3684
Contact Ye for any questions or suggestions on the workshop series

COLORADO SCHOOL OF MINES
EARTH • ENERGY • ENVIRONMENT



Mines @ 150

Imagine that all students are...

“...intellectually curious and multidimensional”

“...excited to explore”



Engagement and Outreach

Libraries as community platform



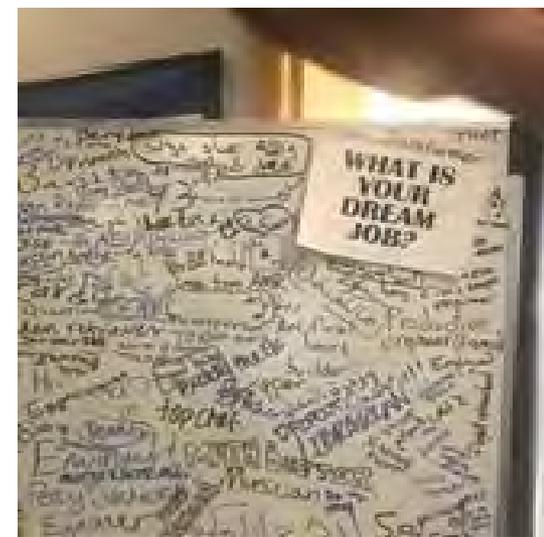
Student Engagement: Activities



Static electricity interactive demo



Apollo 11 talk



Weekly whiteboard question



Button making – popular!



Film showings

Student Engagement: Book Discussions; Visiting Author Talks



LIBRARY

Distinguished Author
ROBERT M. HAZEN

LECTURES AND WORKSHOPS

APR 25 11-NOON Seminar: "Mineral Network Analysis: Big Data as Applied to Mineral Systems" - BE241

APR 25 1-4 PM Technical Workshop: "Mineral Network Analysis I" - BE306

APR 25 7:00 PM Lecture I: "Mineral Evolution and Ecology: Tracing Earth's History Through Time and Space" - BE241 - RSVP at <http://bit.ly/2H05e1Z>

APR 26 8-11 AM Technical Workshop: "Mineral Network Analysis II" - NZ 322

APR 26 12-1 PM Book Discussion: "The Story of Earth: The First 4.5 Billion Years" - Library Boettcher Room - RSVP by Apr 18 to gavans@mines.edu

APR 26 7:00 PM Lecture II: "Big Data Geology: Visualizing Earth's Co-Evolving Geosphere and Biosphere" - BE241 - RSVP at <http://bit.ly/2pae6cs>

COLORADOSCHOOLOFMINES
EARTH • ENERGY • ENVIRONMENT

LIBRARY

AUTHOR TALK

VICTORIA BRUCE

★ ★ ARTHUR LAKES LIBRARY ★ ★

"GRIPPING" "HARROWING" "COMPELLING"

WEDNESDAY 02.07.18

"Sellout" mines an important topic: the national-security risks arising from our loss of industrial expertise and manufacturing capacity."

LIBRARY

COMMON READ

BOOK CLUB

You have been invited to the Common Read Book Club. Join us soon for the reading of Shawn Achor's *The Happiness Advantage*.

September 24 @ NOON In the Library

The Happiness Advantage
Book Summary

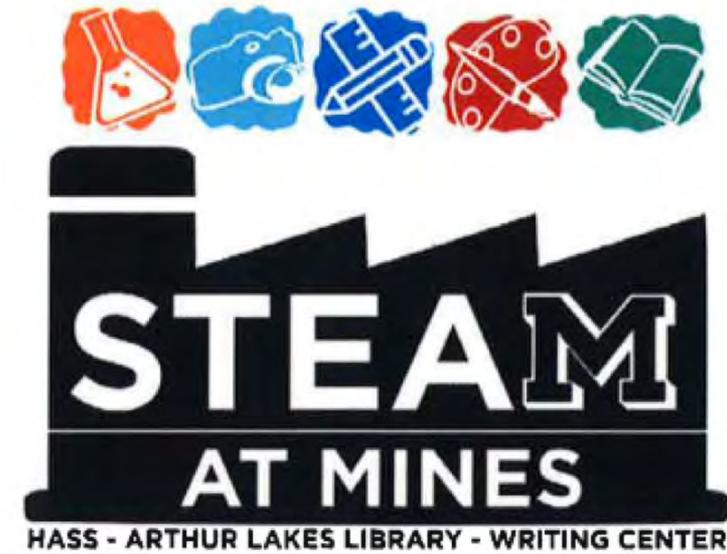
"Happiness is not the belief that we don't need to change; it is the realization that we can."
— Shawn Achor

Collaborations Across Campus

Campus collaborations → libraries as boundary-spanning institutions



Pilot entrepreneurship incubator zone in the library



Collaborations with HASS department



Student-led IT help desk in the library







Rotating Exhibits & Displays



Team DiggerLoop's Hyperloop pod on display in the library



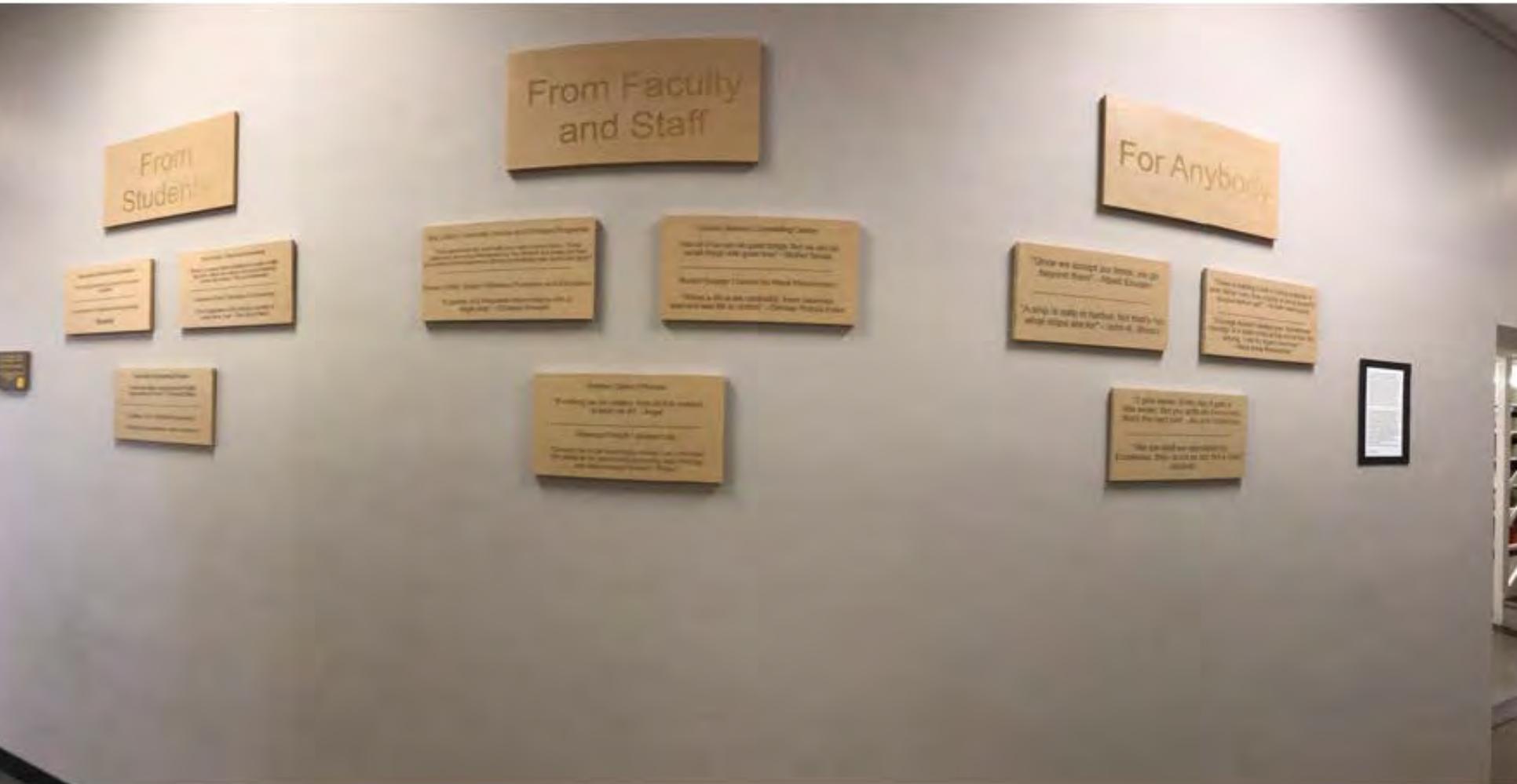
Student displays



Leadville Boom Days Art Exhibit







From Students

From Faculty and Staff

For Anybody

"I am proud to be a part of the Colorado School of Mines community. We are a place where hard work and passion meet, and where we strive to make a difference in the world."

"The Colorado School of Mines is a place where you can find the best of both worlds: a world-class education and a world-class community. We are proud to be a part of this special place."

"I am proud to be a part of the Colorado School of Mines community. We are a place where hard work and passion meet, and where we strive to make a difference in the world."

"The Colorado School of Mines is a place where you can find the best of both worlds: a world-class education and a world-class community. We are proud to be a part of this special place."

"I am proud to be a part of the Colorado School of Mines community. We are a place where hard work and passion meet, and where we strive to make a difference in the world."

"The Colorado School of Mines is a place where you can find the best of both worlds: a world-class education and a world-class community. We are proud to be a part of this special place."

"Once we accept our fate, we go beyond fear." - Albert Einstein

"There is nothing more beautiful than a person who is not afraid to be different." - Albert Einstein

"If you have a dream, you must catch up with it. No wonder, for you will be treading upon the feet of the angels." - Albert Einstein





Rotating Exhibits & Displays: Da Vinci Machines Exhibit Spring/Summer 2019



Students exploring Da Vinci machine reproductions

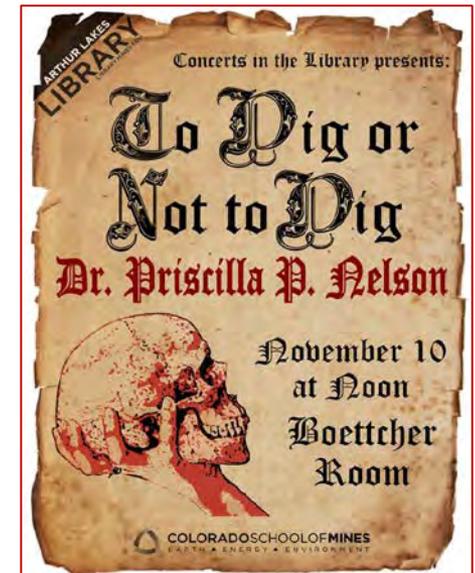
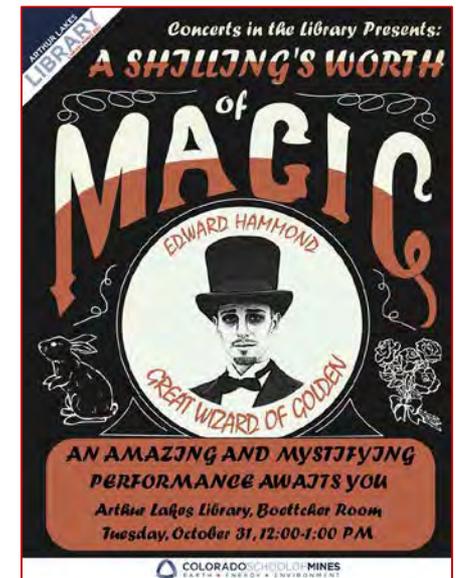


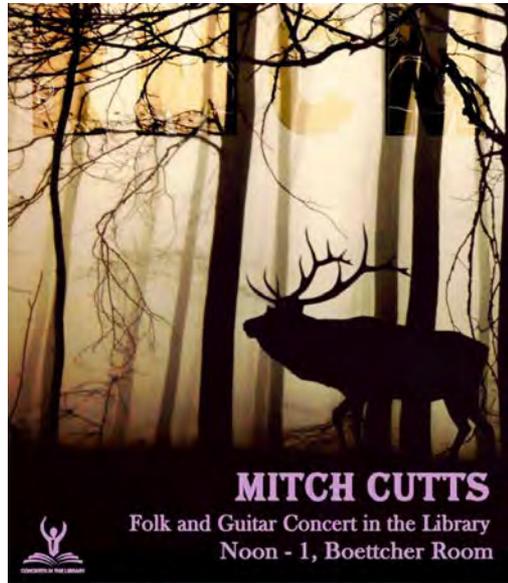
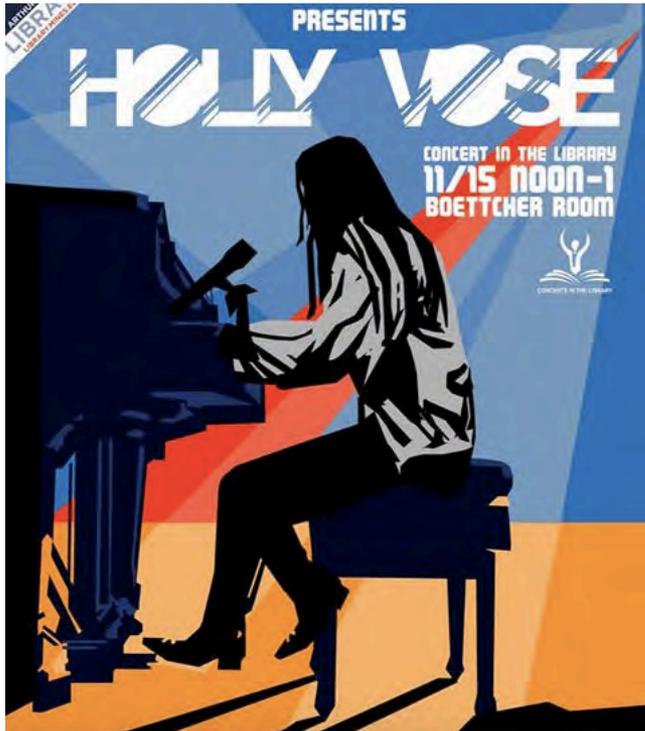
Community tours of Da Vinci exhibit

Longstanding, Popular Concerts in the Library Series



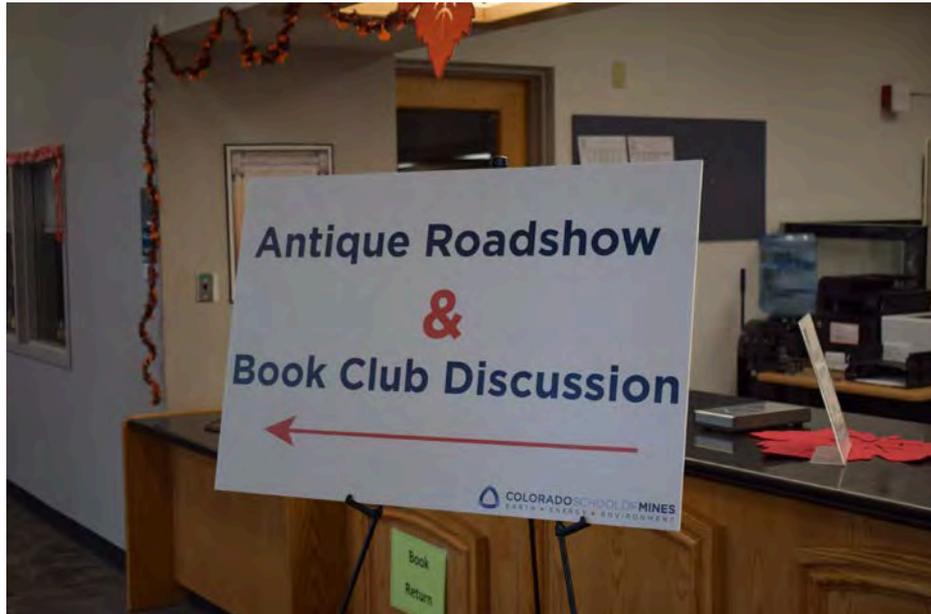
Showcasing Mines musical talent.





COLORADO SCHOOL OF MINES
 EARTH • ENERGY • ENVIRONMENT

Alumni Outreach





Mines @ 150

Imagine that all students are...

**“...supported to overcome
personal obstacles”**

Student Engagement: Stress Reduction



Always popular therapy dogs



ARTHUR LAKES LIBRARY

STRESSED?

THE LIBRARY AND THE COUNSELING CENTER ARE TEAMING UP TO OFFER DONUTS AND STRESS BUSTING TIPS

MONDAY MAY 8th, 10:00am - NOON

THE COUNSELING CENTER PROVIDES

- Individual Support
- Group Support
- Self Care Programs

COLORADO SCHOOL OF MINES
EARTH • ENERGY • ENVIRONMENT



Student Engagement: Weekly Meditation Sessions





Mines @ 150

Imagine that all students are...

“...prepared to excel in business & entrepreneurial pursuits.”





2020-2021 Library Budget

Materials, operations, staffing

2020-2021 Library Budget: Collections

<https://libguides.mines.edu/librarybudget>

Library Collections		FY21 without Inflation		FY21 with 6.1% Inflation	
FY20	FY21	Raw \$ Reduction	Raw % Reduction	Net \$ Reduction	Net % Reduction
\$2M	\$1.95M	-\$50K	-2.5%	\$173K	-8.6%

Strategies to cover \$173K:

- Negotiate:** ~\$10K in reduced inflation costs with vendors (where possible)
 - Cancel:** ~\$40K in journals and databases
 - Draw down:** ~\$123K in donor funds to cover balance (one-time strategy only)
- \$173K**

E-Resource Usage

Time Frame	E-Resource Searches			Full Text E-Resource Retrievals		
	# Searches	# Change	% Change	# Full Text E-Retrievals	# Change	% Change
Calendar Year 2019	247,736	26,475	--	1,013,551	102,993	11.31%
Calendar Year 2018	221,261	99,651	81.94%	910,558	97,235	11.96%
Calendar Year 2017	121,610	21,159	21.06%	813,323	107,543	15.24%
Calendar Year 2016	100,451	-37,375	-27.12%	705,780	9,979	1.43%
Calendar Year 2015	137,826	-12,934	-8.58%	695,801	97,217	16.24%
Calendar Year 2014	150,760	-21,053	-12.25%	598,584	52,339	9.58%
Calendar Year 2013	171,813	-126,561	-42.42%	546,245	56,508	11.54%
Calendar Year 2012	298,374	102,237	52.13%	489,737	73,264	17.59%
Calendar Year 2011	196,137	7,883	4.19%	416,473	11,135	2.75%
Calendar Year 2010	188,254	4,348	2.36%	405,338	82,172	25.43%
FY 2009-2010	183,906	-10,648	-5.47%	323,166	54,259	20.18%
FY 2008-2009	194,554	35,822	22.57%	268,907	69,333	34.74%
FY 2007-2008	158,732			199,574		



Resources: FY20 Budget Allocation

- Online journals and databases 80.42%
- Ebooks 12.10%
- Streaming media 3.2%
- Print books 1.67%
- Print Journals 1.1%
- Other 1.5%



FY21 Materials Budget – CO Alliance

Alliance Member	FY21 Materials Change
USAFA	tbd
Regis	tbd
DU	-8%
UWY **	-7.5%
UNC	-4.8%
MINES	-2.5%
CU-Boulder	0% (flat)
Colorado Mesa	0% (flat)
CU-Anschutz	0% (flat)
Colorado College	0% (flat)
Auraria	0% (flat)
CSU-Fort Collins	-2% to base and +5% inflation (net positive)
CSU-Pueblo	+4%
UCCS	+5% inflation

*** UWY budget heavily impacted by oil/gas industry*

Impact of 2.5% Materials Budget Cut

Statistic	FY2020		FY2021 with 2.5% Cut		Notes
Average Budget Increase/Year	4.05%	(12-yr avg)	3.55%	(13-yr avg)	Vs. average annual 13-year inflation: 5.7%
Ttl Library \$/Student	\$639		\$645		
Ttl Materials \$/Student	\$292		\$297		

2020-2021 Library Budget: Operations

	FY20	FY21	\$ Reduction	Raw % Reduction	Net Reduction
Non-discretionary operations	\$240.5 *	\$194K	\$46.5K	19%	0%
Discretionary operations	\$65.5K	\$27K	-\$38.5K		-59%
Total Library Operations	\$306K *	\$221K	-\$85K	-28%	-13%

* = includes 1x project funds

Non-discretionary = essential systems; interlibrary loan

Discretionary = everything else (scholarly communications; engagement; office supplies; computers; etc.)

Discretionary Strategies:

- Cut discretionary spending; lower systems inflation where possible
- Draw from donor and auxiliary (Book & Brew) funds
- Delay circ desk renovation



Use of Donor & Auxiliary Funds: Opportunity Costs

Donor Funds are used for:

- Permanent acquisition of ebooks, key journal backfiles, video and other primary source databases
- Negotiating leverage on database renewals via bundling
- Project to remove stacks on 3rd floor and convert to open, quiet study
- Enhanced support for remote learning
- Enhanced findability of e-resources vs. physical materials

Auxiliary Funds (Book & Brew) are used for:

- Library faculty & staff professional development
- Book & Brew expenses; investment
- Physical library improvements (FY21 circ desk plans)



Staffing

Resource Acquisitions Manager position eliminated

- Redistribution of work to other library faculty and staff
 - Reduction of capacity to process physical materials
 - Cancellation of physical journals; newspapers

Questions/Discussion