



Ex Libris Corporate and Product Update

Ex Libris Bluegrass Users Group

June 16, 2023

Dave Hemingway-Turner, MLS
Strategic Software Partner



**Thank you for your
partnership!!!**

Ex Libris Today



7,500+

Institutions in the
Ex Libris cloud

85+ of world's top
100 universities

105+ ARL
institutions

45+
National
libraries

5+ B
Records in Central
Discovery Index

92% customer
satisfaction

\$75+ B
Funding opportunities
available



1,000+
Employees
globally

2,200+
Customer ideas
on the Ex Libris
Idea Exchange

>65 M
API calls
per month

90 countries
8 Data centers

Collaboration: Cross Product Initiatives and Focus Groups

Linked Data Ecosystem

Use of Linked Data in Alma and Primo,
In Production



NATIONAL
AGRICULTURAL
LIBRARY

Advancing Access to Global
Information for Agriculture



EMORY
UNIVERSITY

Collection Development

Use of Collection Analysis Dashboards and
Recommendations in Alma, In Production



Brandeis
UNIVERSITY



UNIVERSITY OF MINNESOTA



The State University
of New York



Ben-Gurion University
of the Negev

What We've Heard from Our Partners



**World changes makes
the library change**



**Innovation is the
priority**



**Connections and
community are critical**

Our Goal:
**Be the partner
libraries want
when they think
about tomorrow**



Library Innovates its Role in the Institution



New Standard of Proactive Engagement



Connecting Libraries & People

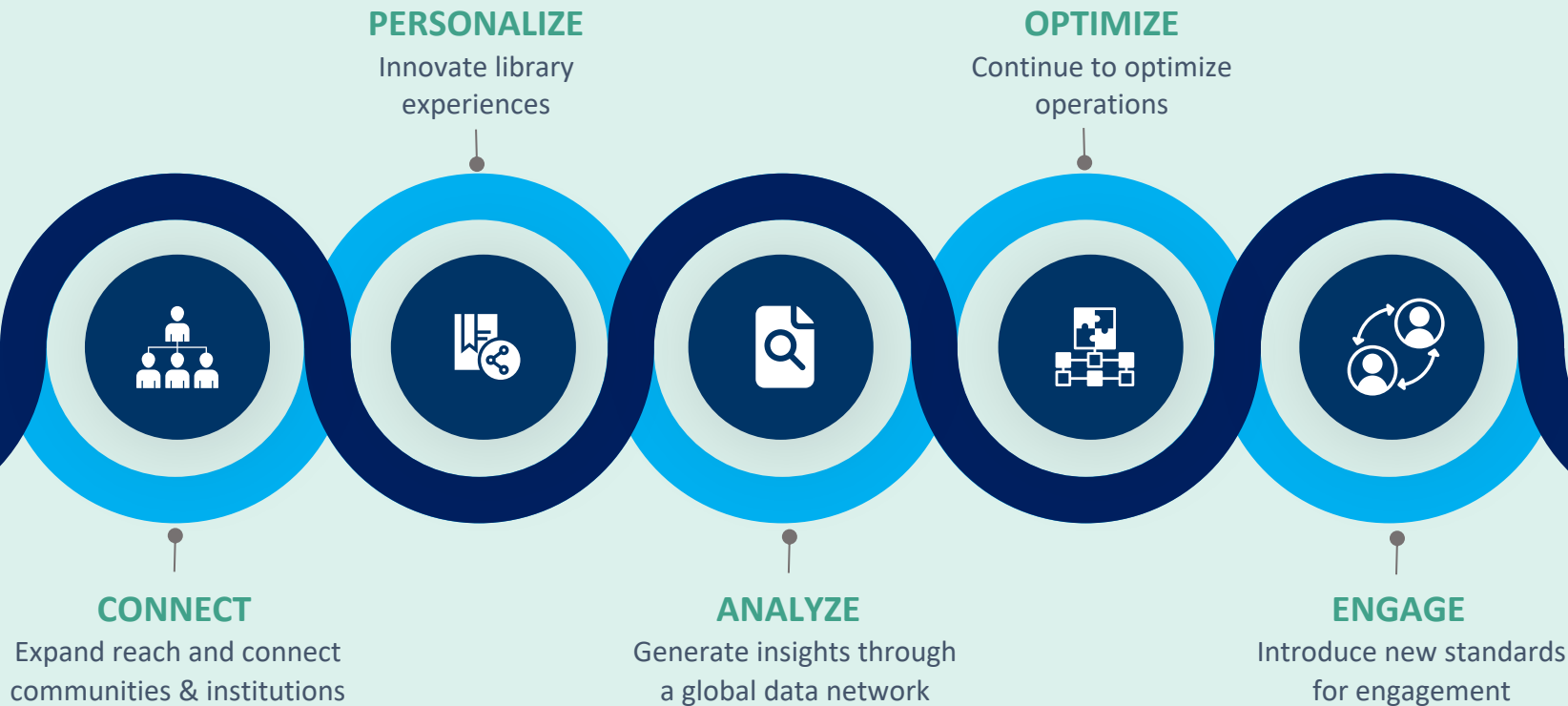


Discovery Leadership



LSP/ILS Leadership

Looking ahead: 2023 to 2025





A World of Connected Products: Library Management Solutions Update

The Portfolio Integration Strategy

CONTENT

Trusted provider for superb, quality, and enriched bibliography content.

ANALYTICS & INSIGHTS

Provide a comprehensive analytics and insight information that will help libraries measure and improve their impact



USER ENGAGEMENT

New innovative services to serve and connect with end-users

WORKFLOWS

Streamline, automate workflows within Clarivate A&G eco system.

Scholarly Trusted AI Framework



- AI model trained on scholarly resources
- Collaboration with the community from early stage
- Pilot with a leading AI Platform





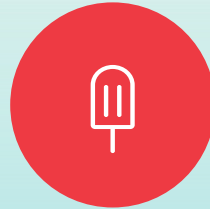
Alma

Alma: Optimization

User Experience and Workflow Simplification



Clear



Intuitive



Consistent

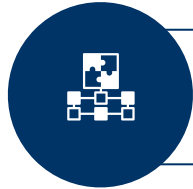


Responsive



Accessible

Alma: UX Projects 2023/2024



Resource Sharing Task Lists



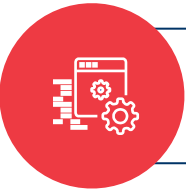
Acquisition – PO Lines



Repository Search



Patron Services



Sets

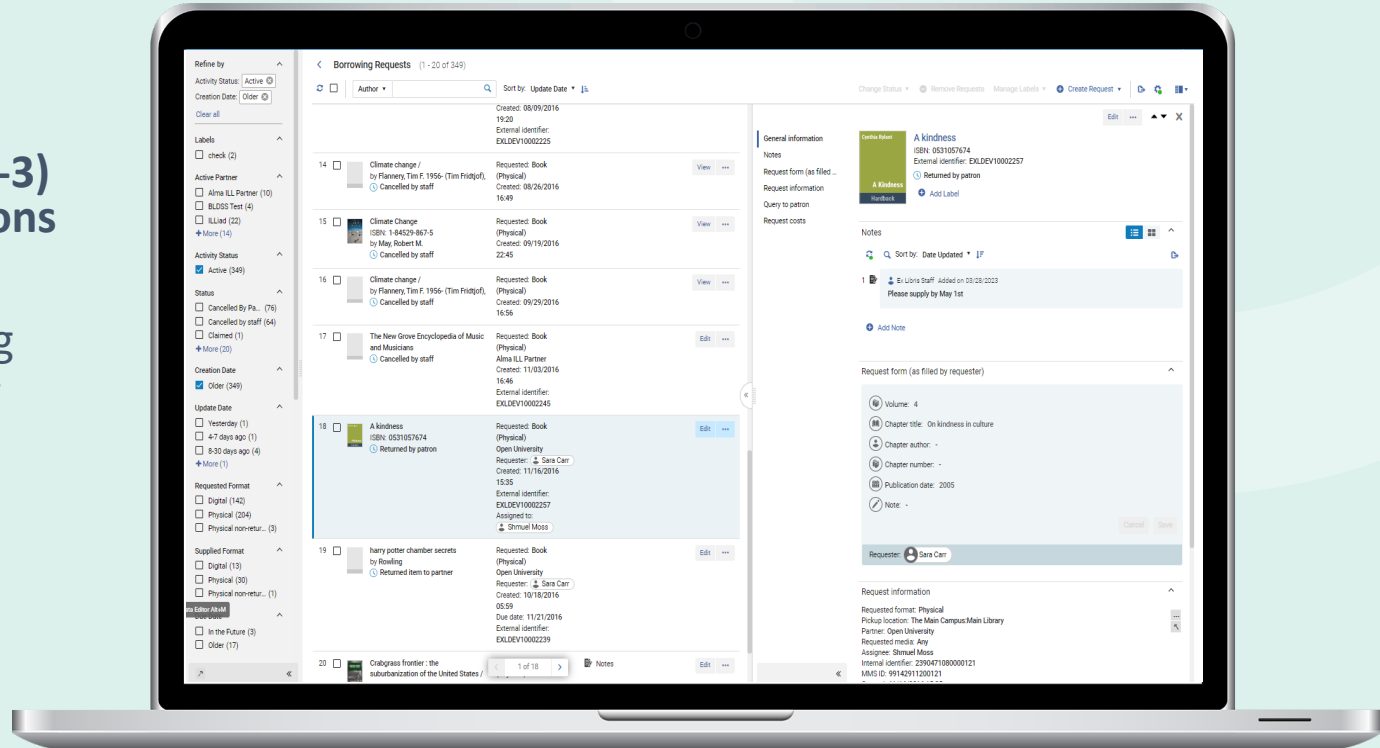


Analytics

Streamline End-To-End Workflows

Benefits

- Reduction in required clicks (1-3) for common actions
- Inline editing
- Improved faceting
- Inline handling of notes and patron queries
- Easier search



Resource sharing task lists now in production

Collection Analysis, Management & Development

From separate tools to a proactive workflows that guide users towards their goals.

What are we working on?



- Data Driven insight visualization dashboards (configuration based)
- Cross area Standardization-comparing costs across all solutions
- Collection-level Benchmarking
- From Insight to Action: Powerful recommendation system triggered by data



Resource Sharing

Resource Sharing Community



Rapido

Tell your friends

Coming in 2024: Rapido available for different library systems



Connect

- Unlock **global** and **equitable** collaboration
Be part of an **open** ecosystem
- Integration with **ANY** ILS



Personalize

- **Personalization** of borrowing options based on needs and relevance



Optimize

- Let the system handle the request volume for you
- **Automated** interlibrary workflows



Rapido: Realizing the collective collection





Digital Solutions

Digital Preservation on the Platform

- Digital asset management and digital preservation solution, managing the entire life-cycle of digital collections, guaranteeing perpetual access.
- Hosted on secure and highly-available SaaS platform, Rosetta will support cloud and/or local storage solutions
- Workflows based on community expertise



Rosetta on the Platform



Sustainable preservation platform



Contribute

- Open preservation portal
- Community-driven knowledge base



Secure

- Secure, high availability hosting
- Support trusted digital repositories



Optimize

- Resource-efficient workflows
- Flexible data model
- Advanced interoperability



Innovate

- BI analytics
- Advanced digital experience
- Storage abstraction vs. OTB cloud storage

Rosetta: Adapting to every institution

Rosetta will answer the challenges
of **customers of all sizes and segments:**

ACADEMIA	PUBLIC	CONSORTIA
<ul style="list-style-type: none">• Academic libraries• Research data	<ul style="list-style-type: none">• State and national libraries• Archives	<ul style="list-style-type: none">• Preservation as a Service• Serving institutions with limited resources• Cost effective model



Digital asset
management (DAM)



DAM + cloud
preservation



DAM + cloud + local
preservation (hybrid)

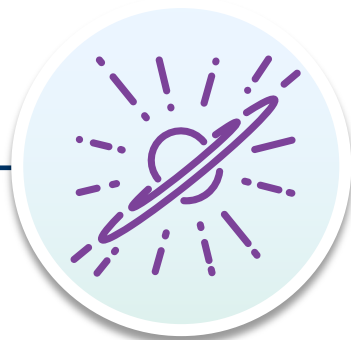
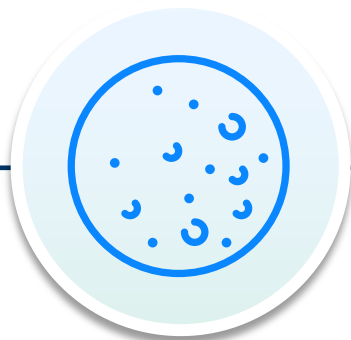


Discovery Solutions: Creating the Next Discovery Experience (NDE)

Stars are aligning for the Next Discovery Experience

Emerging generative
AI technologies

Updated UX
Development Tool



Expectation for
consumer-like
experience

New Linked Data
practices

Our ways to a new discovery experience



New UX for Primo pages



Linked data experience



Take advantage of new AI tech

Books & More

Historical & Special
Digital Collections

Locate Databases,
Journals & More

Multi-Database
Search

Search for library fashion

GO

What am I searching?

In North

[Databases A-Z](#)

[Databases by Subject](#)

[New Search](#)

[Advanced Search](#)

Welcome!

[Log In](#)

[Need Help?](#)

[e-Shelf](#)

[Preferences](#)

Results for North

RSS

12 Results, sorted by: popularity

Refine My Results

Format:

> [Books \(8\)](#)

> [eBooks \(5\)](#)

> [Journals/Serials \(4\)](#)

Subject: Topic:

> [Photography, Table-top \(1\)](#)

> [Performing arts \(1\)](#)

> [Literature, Experimental \(1\)](#)

> [Photography \(1\)](#)

> [Fashion photography \(1\)](#)

[Show 5 more](#)

1

[Encyclopedia of clothing and fashion](#) [\(View details\)](#)



Book

Farmington Hills, MI : Charles Scribner's Sons Valerie Steele c2005

Add to e-Shelf

Available at Miami Dade/North Reference (REF GT507 .E53 2005) [\(Get It\)](#)

[Locations](#)



2

[The studio](#), [\(View details\)](#)



Book

New York Time-Life Books. 1971

[>!!! There are 2 versions of this item](#)

Add to e-Shelf

Available at Miami Dade/North Circulation (TR550 .T55) [\(Get It\)](#)

[Locations](#)

3

[Shadows](#) [\(View details\)](#)



eBook

Charlottesville, Va. : University of Virginia Library ; Boulder, Colo. : NetLibrary NetLibrary, Inc. ; University of Virginia. Library. Electronic Text Center. Djuna Barnes 199-?

Add to e-Shelf

View online now [\(Get It\)](#)

Local Search Remote Search

timber

Volcano Island University

Search

Advanced Search

Subscribe to Library News feeds



All items that contain my query words anywhere in the record

Show only

Online Resources (36)
Available (884)

Refine My Results

Topic

Timber (335)
Forests and forestry (203)
Forest management (94)
Lumber trade (79)
Forest products industry (66)
Show 15 more

Creator

United States. Forest Service (32)
Timber Research and Development Association (11)
International Tropical Timber Organization (9)
Pacific Northwest Research Station (Portland, Or.) (9)

894 Results for Volcano Island University

Sorted by: Relevance

← Previous 6-15 Next →

Show only Online Resources (36) Available (884)



☆ **A review of fire retardant treatments, fire performance test methods, and building codes in United States of America and Australia, and their influence on the marketing opportunities for forest products**

W. D. Gardner N.S.W. Timber Advisory Council. 1986
Available at Volcano Campus History Library General collection (Quarto TP266.5 .G37x 1986)

Book

Request Locations Details Reviews & Tags Recommendations More



☆ **Timber of West Africa**

Timber Research and Development Association. Bernard Alwyn Jay; Timber Development Association. 1972

Checked out from IN STORAGE General collection (635.51 T4815 1975)

Book

Request Locations Details Reviews & Tags Recommendations More



☆ **Proceedings of the International Symposium on the Use of Home Grown Timber in Building, held in Khartoum, Sudan, 6-8 February, 1979**

Symposium on Use of Home Grown Timber in Building (1979 : Khartoum, Sudan) Omer M. E. Hassan Fageiri; H. O Abd El Nour (Hassan Osman); Jāmi'at al-Kharṭūm. Building & Road Research Institute. 1979?

Book

global warming








Alma University & Central Index



ADVANCED SEARCH

 0 selected PAGE 3 21-30 of 421,264 Results Personalize

- | | | | | | | |
|----|---|---|--|--|--|--|
| 21 |  | BOOK
Global warming and global politics
Paterson, Matthew, 1967-
1996
Available Online > | | | | |
| 22 |  | BOOK
Global Warming Understanding the Forecast
Archer, David.
2009
Available Online > | | | | |
| 23 |  | BOOK
Global warming big book
Gombatz, Erika Gasper.
2008
Available Online > | | | | |
| 24 |  | BOOK
Global warming for dummies
May, Elizabeth.; Caron, Zoë.
c2009
Available Online > | | | | |
| 25 |  | BOOK
Global warming engineering solutions
Dinçer, İbrahim, 1964-
2009
Get PDF > | | | | |

Tweak your results

-
- Expand My Results
-
-
- Search in Full Text

Sort by Relevance ▾

Availability ^

-
- Available online
-
-
- Peer-reviewed Journals
-
-
- Open Access
-
-
- Held by library

Resource Type ▾

Subject ▾

Creation Date ▾

Author/Creator ▾

Library ▾

Location ▾

Institution ▾

Journal Title ▾

New Records ▾

Language ▾

Search

All (430,123)

Book (43,980)

Articles (12,234)

Newspaper (12,234)

Images (12,234)

Journals (12,234)

Saved Items

Advanced Search

Journals Search

Collections

Peer reviewed

Available online

Held by the library

More Filters

Sort by: Most Relevant

1 BOOK

The evolution of physics from early concepts to relativity and quanta



By Einstein, Albert

Published in 1879-1955.

Available at Lamont Library Gen (PR9199.3.A8 H3 1998)

This look at the near future presents the story of Offred, a Handmaid in the Republic of Gilead, once the United States, an oppressive world where women are no longer allowed...

Read More



Request

2 ARTICLE | PEER REVIEWD | OPEN ACCESS | 11 WEB OF SCIENCE | COURSE

Active tactile exploration using a brain—machine— brain interface



By O'DOHERTY, Joseph E

Nature (London), 2011, Vol.479 (7372), p.228-231

Brain-machine interfaces use neuronal activity recorded from the brain to establish direct communication with external actuators, such as prosthetic arms. It is hoped tha...

Read More



Online PDF

Conversational Discovery – Concerns

“not provides facts, making up things”

“not fit with institutional teaching and learning principles”

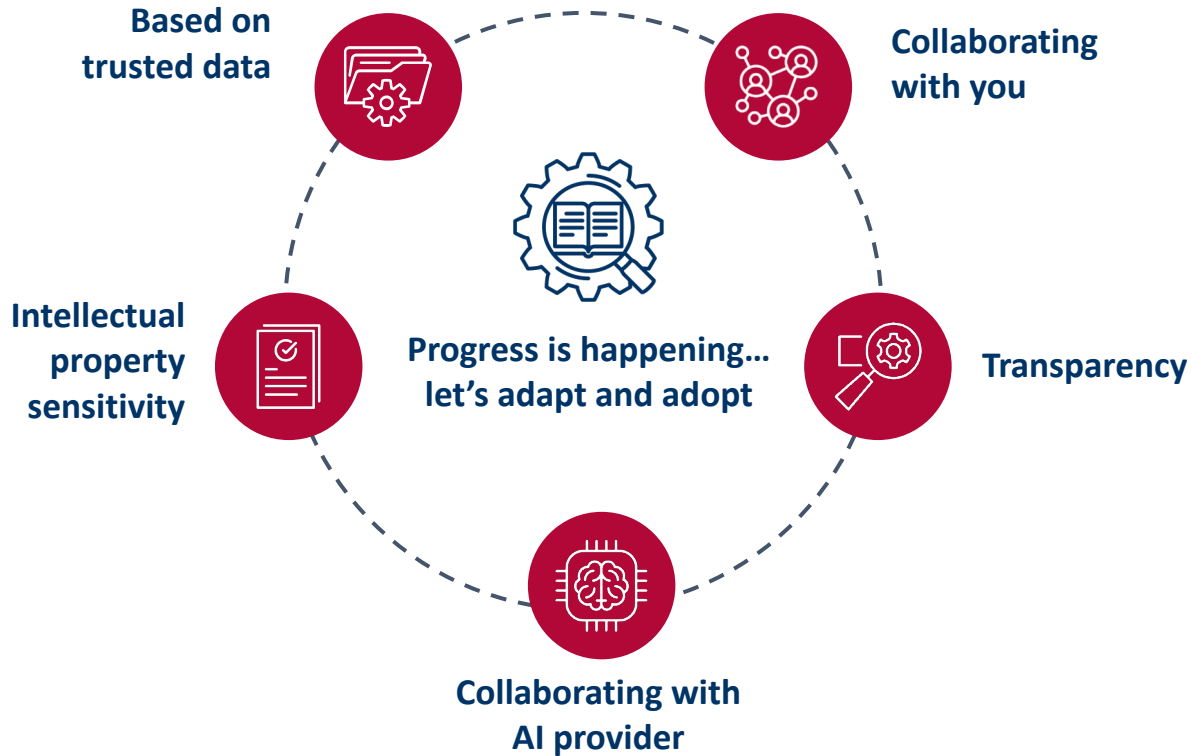
“bring unintended bias and consequences”

“no proper accreditation”

“generate incorrect information”



How to Make it Work



Welcome to the Next Discovery Experience

Conversational Discovery



🔍 Search in the Library




📍 Library Catalog ▾

Welcome to the Next Discovery Experience

Conversational Discovery



 Ask me anything...





Welcome to the Next Discovery Experience


Conversational Discovery



Tell me about the Honey yield conditions and characteristics of honeys in California |



 Tell me about the Honey yield conditions and characteristics of honeys in California 

 California is known for producing a variety of honeys such as orange blossom, sage, eucalyptus, avocado, and wildflower [1]. The quality criteria for honey are well specified by the European Community Guidelines 2001/110. The main criteria of interest are moisture, electrical conductivity, ash, reducing and nonreducing sugars, free acidity, diastase activity, and hydroxymethylfurfural (HMF) content [2].



 |

See more results at the library site [↗](#)



ARTICLE  [1]

Range and Frequency of Africanized Honey Bees in California (USA)

By Kono, Yoshiaki ; Kohn, Joshua R.; Wicker-Thomas, Claude

[Online PDF !\[\]\(8ce3437344f8611754bc1401342d06ad_img.jpg\)](#)



ARTICLE  [2]

Admixture in Africanized honey bees (*Apis mellifera*) from Panamá...

By Zárate, Daniela ; Lima, Thiago G. ; Poole, Jude D. ; Calfee, Erin ; Burton,...

[Request](#)

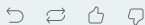
Tell me about the Honey yield conditions and characteristics of honeys in California

California is known for producing a variety of honeys such as orange blossom, sage, eucalyptus, avocado, and wildflower [1] [□]. The quality criteria for honey are well specified by the European Community Guidelines 2001/110. The main criteria of interest are moisture, electrical conductivity, ash, reducing and nonreducing sugars, free acidity, diastase activity, and hydroxymethylfurfural (HMF) content [2] [□].



Were any studies on the impact of pollen consumption on honey bee (*Apis mellifera*) digestive physiology and carbohydrate metabolism done in California ?

I found a few studies that might interest you. One study investigated the impact of pollen consumption on honey bee (*Apis mellifera*) digestive physiology and carbohydrate metabolism [3] [□] [4] [□]. Another study compared the effects of three pollen types on the survival rate, prepupal weight, developmental stage, and pollen digestibility in honey bee (*A. mellifera*) larvae. A third study compared the effects of eight different mixed-pollen diets on queenless adult survival and physiology [5] [□].



|

See more results at the library site [↗](#)

ARTICLE [1] [□]



Range and Frequency of Africanized Honey Bees in California (USA)

By Kono, Yoshiaki ; Kohn, Joshua R; Wicker-Thomas, Claude

Online PDF 

ARTICLE [2] [□]



Admixture in Africanized honey bees (*Apis mellifera*) from Panamá...

By Zárate, Daniela ; Lima, Thiago G. ; Poole, Jude D. ; Calfee, Erin ; Burton,...

Request

ARTICLE [3] [□]



The Great Bee Migration: Supply Analysis of Honey Bee Colony Shipments...

By Goodrich, Brittney K ; Williams, Jeffrey C ; Goodhue, Rachael E...

Online PDF 

ARTICLE [4] [□]



Genome Sequencing of Museum Specimens Reveals Rapid Changes i...

I found a few studies that might interest you. One study investigated the impact of pollen consumption on honey bee (*Apis mellifera*) digestive physiology and carbohydrate metabolism [3]^P [4]^P. Another study compared the effects of three pollen types on the survival rate, prepupal weight, developmental stage, and pollen digestibility in honey bee (*A. mellifera*) larvae. A third study compared the effects of eight different mixed-pollen diets on queenless adult survival and physiology [5]^P.



What is the research that was done in article [3]^P? Sum up the article for me in under 300 words.

Due to climate variability and the locations of forage sources, there are regional differences in honey production and honey bee colony populations within the U.S. This article suggests a use of Geographically Weighted Regression (GWR) methods over data from 2007-2018 to explain the differences and suggest the shipping costs to Almond pollination are a big factor, while actual pollination costs are not.

Abstract

Over the last two decades, the number of honey bee colonies performing pollination services for the California almond industry has grown steadily and now equals a substantial share of all colonies in the United States. Most US beekeeping operations have not expanded their colony numbers at the current levels of almond pollination fees. Thus, as almond acreage has increased, the marginal supplier of colonies has moved further away from California, increasing interstate shipments. We provide a conceptual representation of the supply and demand of U.S. colonies for almond pollination, and utilize the relatively inelastic demand for colonies to explore spatial elasticities of supply. We combine colony shipment data from 2007 to 2018 provided by the California Department of Food and Agriculture with projected prices from the California State Beekeepers'



ARTICLE

The Great Bee Migration: Supply Analysis of Honey Bee Colony Shipments...

By Goodrich, Brittney K ; Williams, Jeffrey C ; Goodhue, Rachael E...

Online PDF

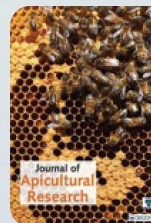


ARTICLE

Genome Sequencing of Museum Specimens Reveals Rapid Changes i...

Cridland, Julie M ; Ramirez, Santiago R ; Dean, Cheryl A ; Scilligo, Amber ;...

Online PDF



ARTICLE

Preliminary analysis shows that feral and managed honey bees in...

Geffre, Amy ; Travis, Dillon ; Kohn, Joshua ; Nieh, James...

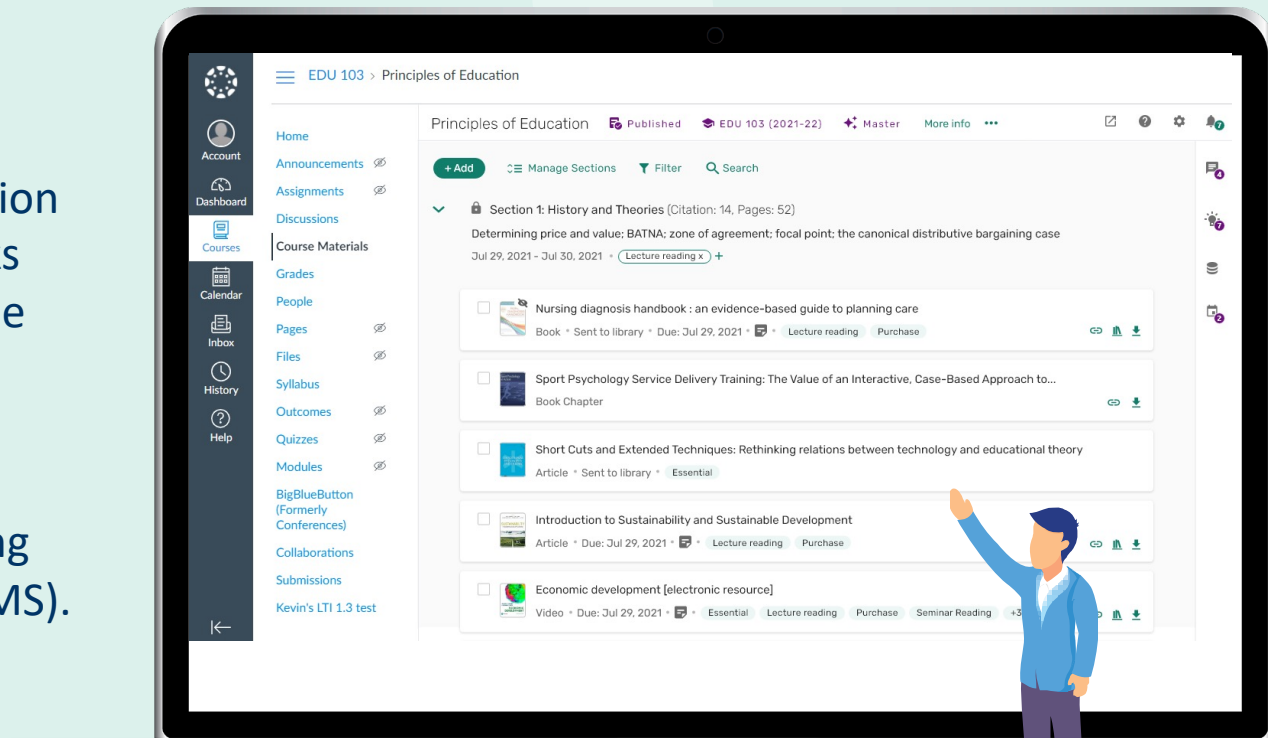
Online PDF



Leganto: Partnering with Teaching & Learning to make an Institution-wide impact

Leganto

A course materials solution which automatically links course materials with the library collection, connecting library resources, services and workflows to the learning management system (LMS).



Connecting the library to faculty and students

Students Faculty

Learning management system

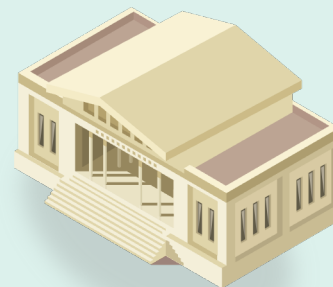
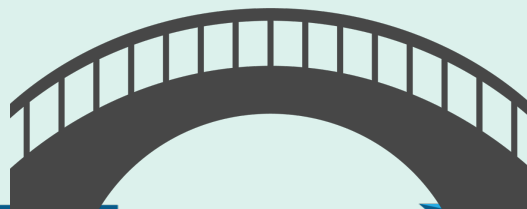
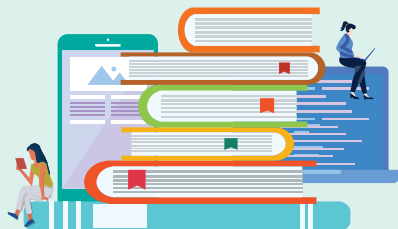
- Course info
- Course materials

Library

Alma

- Library resources
- Services

Leganto



Students Struggle to Pay for Course Materials



85%

of students say paying for course materials is financially stressful



More than half

of students don't buy some of their course materials



43%

of students have skipped meals to pay for course materials



3/10

students have decided not to take a course because of materials cost

<https://www.insidehighered.com/digital-learning/article/2018/08/01/survey-examines-impact-textbook-prices-student-behavior>

The Cost of Bypassing the Library

Course: Women Writers

Course enrollment: 50 students

Three required texts

Cost to students: **\$155.49**

*Use existing library resources
\$7,774.50 in this course*

Book List

Prices and book list are subject to change.

Franco. Poems & Selected Letters. (Required)

ISBN: 9780226259871

New: \$28.00

Used: \$21.00

Rental: \$21.00 (New), \$11.20 (Used)

Woolf. Room of One's Own. (Required)

ISBN: 9780156787338

New: \$15.99

Used: \$12.00

Rental: \$8.79 (New), \$6.40 (Used)

Gilbert. Norton Anthology of Literature By Women (Set:V1/V2). (Required)

ISBN: 9780393930153

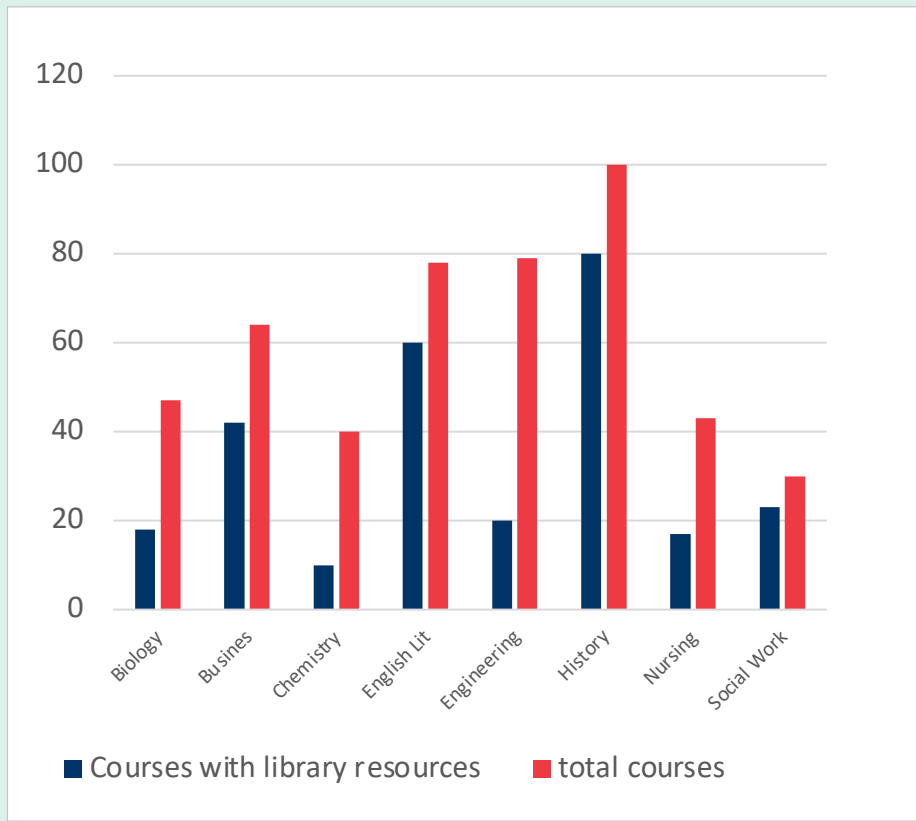
New: \$111.50

Used: \$83.75

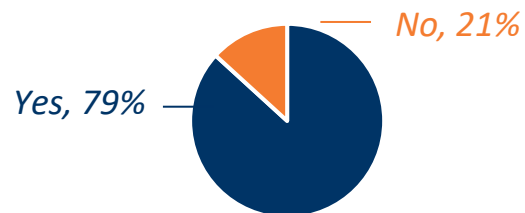
Rental: \$44.60 (Used)

Purchase from Bookstore

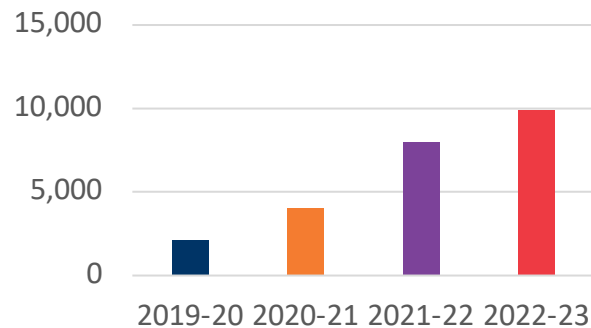
Show YOUR Impact



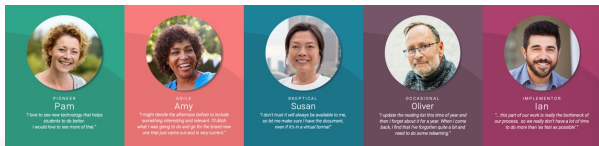
Percentage of Citations Covered by the Library



Number of students impacted



Over a year of research



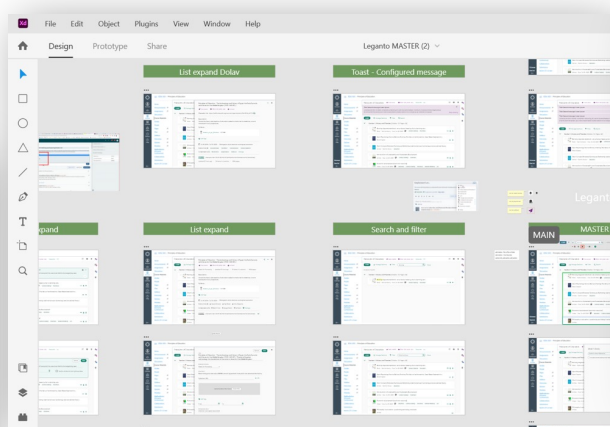
Occasional Oliver

GOAL: Refresh course materials

SCENARIO: Oliver revisits the course reading list once a year, in the fall. Each year, he needs to re-familiarize himself with Leganto.

"I update the reading list this time of year and then I forget about it for a year. When I come back, I find that I've forgotten quite a bit and need to do some relearning."

ADAPT	REFRESH	ANNOTATE	INTEGRATE	MAINTAIN
1. Needs to read course materials the summer before the fall semester.	3. Evaluate general material he's saved in My Collection through the year.	6. Include a column on which chapters students are expected to read.	12. By default, there is a link to the reading list in the left navigation.	15. Assess students when they have trouble finding content.
2. Makes a copy of last year's reading list.	4. Searches for new material in Primo.	10. Uses tags to draw attention to required readings.	13. Creates a study guide for students. Includes direct links to new articles and static references to materials on the reading list.	14. Periodically, he'll go back in and do a bit of adding, updating, and reordering.
3. Checks for broken links and outdated materials.	5. Adds materials through My Collection on the search feature in Leganto. When possible, he chooses an electronic version.	11. For books with electronic copies, he asks the library to digitize the chapter.	14. Completes the reading list by the deadline to make sure the library can fulfill the digitization requests.	16. Periodically, he'll go back in and do a bit of adding, updating, and reordering.
4. Identifies material that don't work well last term.	8. When he adds new materials, he removes other material to keep the list manageable.	7. When he adds new materials, he removes other material to keep the list manageable.	9. When he adds new materials, he removes other material to keep the list manageable.	17. Saves interesting articles in My Collection throughout the academic year.



10 votes
Vote

Search scope of library search in Leganto

The Search scope that was selected when I cleared the search term in Library Search by pressing x will return to the initial state. We want the Search scope once selected to be retained.

17 votes
Vote

Hide instructors ability to restrict access to reading lists based on time intervals

In Leganto, instructors have a lot of opportunities to restrict access to the reading list by setting specific time intervals where resources are visible. This includes separate settings for entire reading lists, sections, citations and uploaded material. We have received reports from our libraries that these functions are sometimes used incorrectly by the instructors. The instructors often do not grasp all the

18 votes
Vote

Make it easier to edit templates within Leganto

Once a template has been created it is not possible to update or edit it without saving it as a new template. It also means that other lists using the original template aren't updated and have to be updated manually. We would like the option to edit templates more easily and for any changes to be saved to all reading lists using that template.

Anonymous shared this idea - Aug 28, 2019

Principles of Education

Search Library

Search results (13,718,888)

Introduction to "An Empirical Assessment of the Contract Based Exception to the Employment At-Will Rule"

Chen, Hong Flores, Gabriela Singh, Salvi, Posthums, Richard. International Journal of Law and Management, 4(6):6, 2018-19-12, 1288-92

Employment discrimination laws: a country level analysis of voice and accountability

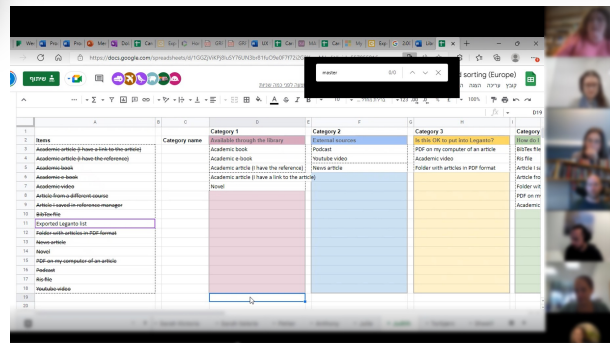
Chen, Hong Flores, Gabriela Singh, Salvi, Posthums, Richard. International Journal of Law and Management, 4(6):6, 2018-19-12, 1288-92

Introduction to "An Empirical Assessment of the Contract Based Exception to the Employment At-Will Rule"

Chen, Hong Flores, Gabriela Singh, Salvi, Posthums, Richard. International Journal of Law and Management, 4(6):6, 2018-19-12, 1288-92

Employment discrimination laws: a country level analysis of voice and accountability

Chen, Hong Flores, Gabriela Singh, Salvi, Posthums, Richard. International Journal of Law and Management, 4(6):6, 2018-19-12, 1288-92



Overlap Analysis Tool

Feedback No.108

Need Ability to Use Multiple Match Methods in Same Report

Feedback No.107

Job confirmation email continued

Feedback No.106

Need more details in job confirmation email

Feedback No.105

Completed job still in "draft" mode

Feedback No.104

Need refresh button

Feedback No.103

Look up Sites General Feedback and Open Access clarification

History of the Cold War

The Cold War continues to fascinate us, especially with popular TV shows and movies triggering a resurgence of interest. We ... [Read more](#)

PUBLISHED [Multiple](#) [More info](#)

☰ ✎ ↻ ⏴ ⏵ 📊 🔍

[LIBRARY REVIEW](#) [NEW SECTION](#) [ADD ITEMS +](#)

Collaborators (15) >

Instructors (5) >

Library Discussion (4) >

Suggestions (4) >

Section I: Origins of the Cold War (6) ▾

Was the Cold War the inevitable outcome given the way in which World War II ended? We will explore this primary theme in the first 3 weeks of the course. Please complete all materials marked as "Essential."

[Lecture readings](#) ✕ [Add Tag](#)



BOOK CHAPTER Cold War ✓

Morina, Christina, in Legacies of Stalingrad [electronic resource] : remembering the Eastern Front in Germany since 1945 , by Morina, Christina., Cambridge ;; New York :, Cambridge University Press, 2011., 67 - 105

Note: Read the entire chapter and be prepared to discuss it in class. Pay particular attention to pages 90-95, including the chart on page 92. We...

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VIDEO BBC History File: Cuban Missile Crisis - YouTube ✓

Duration 23:13

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👁 3



ARTICLE All Propaganda is Dangerous, but Some are More Dangerous than Others: George Orwell and the Use of Literature as Propaganda ✓

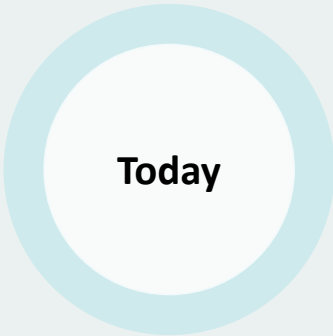
Senn, Samantha, Journal of strategic security, 8(3), 2015-10-01, 149 - 161

Note: Please read the article before class and add your comments to the file.

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♥ 1 👁 84



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Section 1: History and Theories (Citation: 14, Pages: 52)

-  **Nursing diagnosis handbook : an evidence-based guide to planning care**
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-  **Sport Psychology Service Delivery Training: The Value of an Interactive, Case-Based Approach to...**
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Taking it to the Next Level

ANG1518-22Spring 0001
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Grading and Course Requirements

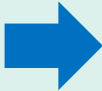
Courses

Course	Prerequisite
BIOL 101	BIOL 101
BIOL 102	BIOL 101
BIOL 103	BIOL 101
BIOL 104	BIOL 101
BIOL 105	BIOL 101
BIOL 106	BIOL 101
BIOL 107	BIOL 101
BIOL 108	BIOL 101
BIOL 109	BIOL 101
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BIOL 116	BIOL 101
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BIOL 119	BIOL 101
BIOL 120	BIOL 101
BIOL 121	BIOL 101
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BIOL 137	BIOL 101
BIOL 138	BIOL 101
BIOL 139	BIOL 101
BIOL 140	BIOL 101
BIOL 141	BIOL 101
BIOL 142	BIOL 101
BIOL 143	BIOL 101
BIOL 144	BIOL 101
BIOL 145	BIOL 101
BIOL 146	BIOL 101
BIOL 147	BIOL 101
BIOL 148	BIOL 101
BIOL 149	BIOL 101
BIOL 150	BIOL 101

Final Exam Day Fourth Take-home Quiz Due!!!
Abstracts Due!! DATE TBA (not listed in schedule)

Course Summary:

Class	Start	End
BIOL 101	1/15/2022	5/15/2022
BIOL 102	1/15/2022	5/15/2022
BIOL 103	1/15/2022	5/15/2022
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BIOL 105	1/15/2022	5/15/2022
BIOL 106	1/15/2022	5/15/2022
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BIOL 146	1/15/2022	5/15/2022
BIOL 147	1/15/2022	5/15/2022
BIOL 148	1/15/2022	5/15/2022
BIOL 149	1/15/2022	5/15/2022
BIOL 150	1/15/2022	5/15/2022



AI21 studio

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Playground

Unified

COURSE OUTLINE*

1. Review Anatomy and Physiology of Cardiovascular system; cardiac cycle, conduction pathways, role of the ECG; purpose of Electrocardiograms.
2. Terminology, equipment and supplies required for ECG.
3. ECG Instrumentation, lead placement and vectors.

12 Jumbo-instruct

Max completion length: 200

48 Total

Reference list:

Cohn, E. & Gilroy-Doohan, M. (2002): Flip and See ECG, 2nd Edition Saunders Elsevier Publishing.

Young, A., et al. (2006): Kinn's The Medical Assistant, an Applied Learning Approach, 9th edition. Text & Workbook: Saunders (Elsevier) Publishing.

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Reference list:

Cohn, E. & Gilroy-Doohan, M. (2002): Flip and See ECG, 2nd Edition Saunders Elsevier Publishing.

Young, A., et al. (2006): Kinn's The Medical Assistant, an Applied Learning Approach, 9th edition. Text & Workbook: Saunders (Elsevier) Publishing.

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Introduction to Landscape Design

Landscape Design: From Site to Plan by Charles W. Moore, Jr. ISBN: 9780263082229

Introduction to Landscape Design: From Site to Plan

Charles W. Moore, Jr.

This course will cover the basics of landscape design, including both the cultural history of landscape design and contemporary trends.

Quizzes will:

1. Gain knowledge of the history of landscape architecture.
2. Develop an understanding of the basic landscape architecture design practices and processes from their historical roots.
3. Gain knowledge of landscape architecture design practices and processes, design tools and techniques.
4. Improve reading, writing and critical thinking skills by researching case studies and relevant historical, cultural and planning literature that informs landscape design.

Get a jump start on the course with the first five resources:

1001 Landscape Architecture

Illustrated: Steven G. Crum, Robert Publishers - Distributed by Holt- Rinehart & Winston

ISBN: 9780030260000

ISBN: 9780030260000

ISBN: 9780030260000

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Thank you!
