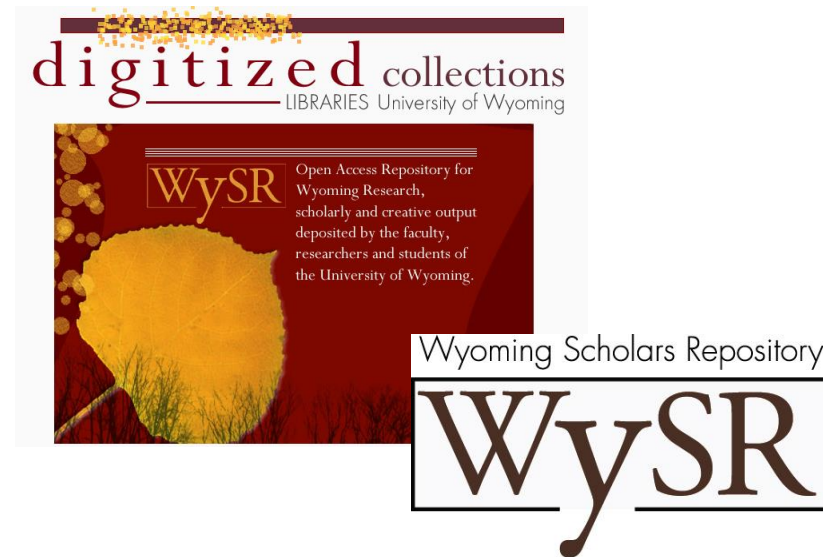


Building Institutional Repositories: Emerging Challenges



2014 WLA Conference, September 26th

Yumi Ohira, MFA, MLS

University of Wyoming Libraries



Agenda

- (1) Introduction
 - (1-1) What is an IR
 - (1-2) WySR – Wyoming Scholars Repository
- (2) Importance of an IR – “Discoverability”
 - (2-1) Researchers’ Expectations
 - (2-2) Discoverable through Search Engines
 - (2-3) Strong Metadata
- (3) Challenges
 - (3-1) Copyrights/Permissions
 - (3-2) Faulty Participation
- (4) Conclusion

(1) Introduction

(1-1) What is an IR?

The Role of an IR

“... an institutional repository is a digital archive of the intellectual product created by faculty, research staff, and students of an institution and accessible to end users both within and outside of the institution, with few if any barriers to access.”

(The Case for Institutional Repositories: A SPARC Position Paper, Prepared by Raym Crow, SPARC Senior Consultant, © SPARC 2002)

Why create an IR? What are the goals of an IR?

- To showcase scholarly works
- To create a public forum for students, faculty, and staff
- To maximize research impact
(Be easily **searchable** and **discoverable**)
- To manage and preserve digital scholarly works



The screenshot shows the homepage of the Wyoming Scholars Repository (WysR). The header features the 'WysR' logo and the text 'Wyoming Scholars Repository'. Below the header, there is a search bar with the text 'Enter search terms:' and a 'Search' button. To the left of the search bar, there are links for 'Home', 'About', 'FAQ', and 'My Account'. Below the search bar, there are links for 'Browse', 'SelectedWorks', and 'Author Corner'. The main content area is titled 'Browse Research and Scholarship' and includes a 'Follow' button. Below this, there are links for 'Research unit, center, or department', 'SelectedWorks Gallery', and 'Student Scholarship'. A paragraph of text describes the repository as a service of University of Wyoming Libraries. Below the text, there is a circular chart with the text 'Explore works in 129 disciplines'. To the right of the chart, there is a section titled 'At a Glance' with links for 'Top 10 Downloads All time', 'Recent Additions 20 most recent additions', and 'Paper of the Day'. The 'Paper of the Day' section features a panel titled 'Reconceptualizing Stono: Analyzing the Aftermath of a Colonial Slave Revolt' by Andrew Kobylarz.

(1-2) WySR – Wyoming Scholars Repository

<http://repository.uwyo.edu/>

Wyoming Scholars Repository

WySR

Home About FAQ My Account

Enter search terms: Search

in this repository

Advanced Search

Notify me via email or RSS

Browse

- Collections
- Disciplines
- Authors

SelectedWorks

Log into SelectedWorks


Author Corner

- Author FAQ
- Submit Research

Browse Research and Scholarship [Follow](#)

- [Research unit, center, or department](#)
- [SelectedWorks Gallery](#)
- [Student Scholarship](#)

The repository is a service of University of Wyoming Libraries. Research, scholarly, and creative output included here has been selected and deposited by the faculty, researchers and students of University of Wyoming. WySR, Wyoming Scholars Repository, is part of the larger Open Access movement to transform scholarly communications.



[View Larger →](#)

At a Glance

- Top 10 Downloads**
All time
- Recent Additions**
20 most recent additions
- Paper of the Day**
The Structure of linear preservers of left matrix majorization on R^*T
Fatemeh Khaloeei and Abbas Salemi

Enter search terms: Search

in this series

Advanced Search

Notify me via email or RSS

Links

Botany Home Page

Submissions from 2012

[PDF](#) [Shrub Encroachment Alters Sensitivity of Soil Respiration to Temperature and Moisture](#), J. M. Cable, G. A. Barron-Gafford, K. Ogle, et al.


Submissions from 2011

Home > Arts & Sciences > Botany > Faculty Publications

BOTANY FACULTY PUBLICATIONS

[Follow](#)

Home > Arts & Sciences > HISTORY > PHI ALPHA THETA REGIONAL CONFERENCE









PHI ALPHA THETA NU ALPHA & UW HISTORY CLUB

[Follow](#)

Browse the contents of [2014 Conference](#)

SelectedWorks Author Gallery

Visit SelectedWorks of [Aadland, David](#) [Go](#)

 <p>David Aadland Director of Graduate Studies Visit Site</p>	 <p>Edward B. Barbier John S. Bugas Professor of Economics Visit Site</p>
 <p>Sandra M. Barslow Head of Collection Development Visit Site</p>	 <p>Craig Benkman Professor of Zoology Visit Site</p>
 <p>Harold Benjman Zoology Department Head Visit Site</p>	 <p>Hakima Bessaih Associate Professor of Mathematics Visit Site</p>

The Structure of BePress-Digital Commons

➤ Series

faculty papers, lectures, reports, datasets, oral histories, etc.

➤ EDT (Electronic Dissertations and Theses) Series

theses and dissertations

➤ Book Galleries

books, chapters, newsletters, yearbooks, etc.

➤ Image Galleries

artwork, images, scanned documents, photos, etc.

➤ Event Communities

conference presentations, symposium materials, etc.

➤ Journals

academic quarterlies, campus periodicals, etc.

WySR

<http://repository.uwyo.edu/>

Series

Botany Faculty Publications http://repository.uwyo.edu/botany_facpub/

Star Wars http://repository.uwyo.edu/starwars_litcrit/

NJAT http://repository.uwyo.edu/njat_oralhistories/

Book

Yellowstone Curriculum Materials http://repository.uwyo.edu/starrs_curriculum/

Image

City Atlas http://repository.uwyo.edu/gem_city_atlas/

Event

Education Research Symposium http://repository.uwyo.edu/education_symp/2014/

Journals

National Park Service Research Center http://repository.uwyo.edu/uwnpsrc_reports/

The screenshot shows the top of the Wyoming Scholars Repository website. It features the WySR logo, navigation links (Home, About, FAQ, My Account), and a search bar. The main content area is titled "Browse Research and Scholarship" and includes links to "Research unit, center, or department", "SelectedWorks Gallery", and "Student Scholarship". A circular chart displays "Explore works in 143 disciplines". Below the chart, there are sections for "At a Glance" (Top 10 Downloads, Recent Additions), "Paper of the Day" (Wyoming Election Survey 2000), and "SelectedWorks Sites" with author portraits.

The screenshot shows a document page for "Shrub Encroachment Alters Sensitivity of Soil Respiration to Temperature and Moisture". It includes a "Download" button, a "Find in your library" button, and a "Botany Commons" badge. The document title is "Shrub Encroachment Alters Sensitivity of Soil Respiration to Temperature and Moisture". The authors listed are J.M. Cable, S.A. Barron-Gafford, K. Oate, M. Penno-Zuckerman, B.L. Scott, David S. Williams, University of Wyoming, and T.E. Huxman. The page also features a search bar, navigation links, and a "Document Title" section.

SelectedWorks Author Gallery

- Centralized management
- Customization
- Dissemination and discoverability

The screenshot shows the Wyoming Scholars Repository (WYSR) website. At the top, there is a navigation bar with links for Home, About, FAQ, and My Account. Below this is a search bar with the text "Enter search terms:" and a "Search" button. To the right of the search bar is a dropdown menu labeled "in this repository" and a "Go" button. Below the search bar is a "Browse" section with links for Collections, Disciplines, and Authors. To the right of the search bar is a "SelectedWorks Author Gallery" section with a dropdown menu labeled "Visit SelectedWorks of:" and a "Go" button. Below this are three author profiles: David Aadland (Director of Graduate Studies), Edward B. Barbier (John S. Bugas Professor of Economics), and Sandra M. Barstow (Head of C...). Each profile includes a small portrait photo and a "Visit Site" link.

Collect and Manage

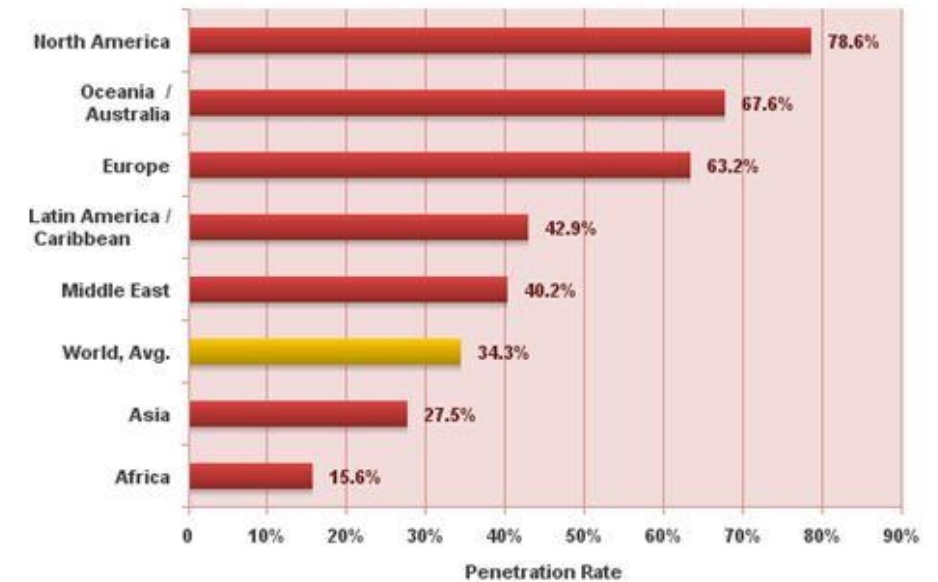
- Scholarly articles
- Book chapters
- Audio and video files
- Supplementary research materials, etc.

The screenshot shows the SelectedWorks profile for Jennifer Mayer. At the top, there is a navigation bar with links for Author Home, Browse Subjects, Browse Article Types, and Series Home. Below this is a header section with the text "My research focuses on information literacy instruction, visual literacy, and the intersection of the arts and academic libraries." Below the header is a section titled "Library and Information Science" with a list of articles. Each article entry includes a link icon, the article title, and a brief description. To the right of the article list is a profile picture of Jennifer Mayer, a "Follow" button, and a "Join My Mailing List" section with an "Enter email here" field and a "Sign Up" button. Below the mailing list section is a "Jennifer Mayer" section with her title "Associate Librarian" and a link to her "Curriculum Vitae [PDF]". At the bottom right, there is a "Search the SelectedWorks of Jennifer Mayer" button.

(2) Importance of an IR - “Discoverability”

(2-1) Researchers’ Expectations

- Resources--available 24 hrs a day,
7 days a week, 365 days a year
- The entire resources (Full-text)
- Easy to find, access, identify and evaluate



Source: Internet World Stats - www.internetworldstats.com/stats.htm
Penetration Rates are based on a world population of 7,017,846,922 and 2,405,518,376 estimated Internet users on June 30, 2012.
Copyright © 2012, Miniwatts Marketing Group

(2-2) Discoverable through Search Engines

How do search engines work?

Crawling : Robots go looking for content

Indexing : Content is discovered and noted

Ranking : Content is ranked in search engine results by relevancy

Relevancy: Determined by a set of algorithms unique to each search engine





yellowstone curriculum



Web News Images Videos Shopping More Search tools



https://www.google.com/#q=yellowstone+curriculum

yellowstone curriculum

About 516,000 results (0.37 seconds)

Expedition: Yellowstone! Curriculum Supplements ...
[www.nps.gov/.../eycurriculummaterials.htm](#) U.S. National Park Service
 Expedition Yellowstone Curriculum Supplements. ... Even though the animals of Yellowstone seem tame they are still wild. Feeding the animals is not permitted ...

Curriculum Materials - Yellowstone National Park (U.S. ...
[www.nps.gov/yell/.../curriculummaterials.htm](#) U.S. National Park Service
 Results 1 - 10 of 18 - Curriculum Materials. ... Browse Our Curriculum Materials. By Keyword: By Grade Range. From: PK, K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, UG ...

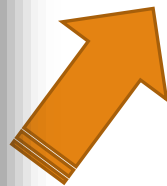
Expedition: Yellowstone! - National Park Service
[www.nps.gov/yell/.../expedition-yellowstone-curri...](#) U.S. National Park Service
 Teachers can view a sample of the Expedition: Yellowstone! curriculum. The curriculum in its entirety can be purchased for \$60 through the Yellowstone ...

Expedition: Yellowstone! - National Park Service
[www.nps.gov/yell/.../expeditionyell.htm](#) U.S. National Park Service
 Through Expedition: Yellowstone! the National Park Service offers a 4-5 day curriculum-based residential program for students in grades 4-8. This long-standing ...

Yellowstone! STARRS Curriculum Materials - Wyoming ...
[repository.uwyo.edu/.../STARRS_CURRICULUM](#)
 Dear Educator, November 2012. I am pleased to present this supplemental Expedition: Yellowstone! curriculum called E:Y! STARRS. This curriculum is intended ...

Images for yellowstone curriculum

http://repository.uwyo.edu/starrs_curriculum/



repository.uwyo.edu/starrs_curriculum/

UNIVERSITY OF WYOMING

Wyoming Scholars Repository

WySR

WYOMING SCHOLARS REPOSITORY

EXPEDITION: YELLOWSTONE! STARRS CURRICULUM MATERIALS

Dear Educator,

I am pleased to present this supplemental Expedition: Yellowstone! curriculum called E:Y! STARRS. This curriculum is intended to enhance the Expedition: Yellowstone! curriculum originally published in 1989 and updated in 2004. It is intended for use with 4th through 8th grade students. However, there are several lessons that were developed in classes with much younger students in a very urban setting (Central Park in NYC), and other lessons can be adapted both up and down the grade spectrum.

The curriculum is divided into two parts. The first contains background information for both Mammoth Hot Springs and the ideas behind the partnership and conducting field science. The second includes lessons that provide a solid base for learning about the ...

Download Full Text (1.6 MB)

Download

Description

Mammoth Hot Springs geologic background

Publication Date 2012

What is SEO?

SEO = Search Engine Optimization

Refers to the process of “optimizing” both the on-page and off-page ranking factors in order to **achieve high search engine rankings for targeted search terms.**

Refers to the “industry” that has been created regarding using keyword searching **a means of increasing relevant traffic to a website.**



Foundations of Discovery



Metadata

- Metadata provides information about data content
- Metadata describes content
- Metadata categorizes content
- Metadata provides context for content
- Metadata **provides discoverability**
- Metadata **facilitates searches for key data**
- Metadata supports “harvesting” of the IR by external systems
- Metadata helps organize IR content
- Metadata helps archiving and preservation

Improve Search Results Snippets

Page Title

URL

Snippet

Yellowstone Youth Conservation Corps (YCC) Resource ...
repository.uwyo.edu › ... › Yellowstone_Youth_Conservation
Yellowstone Youth Conservation Corps (YELL-YCC) Resource Education
Curriculum (REC); Greater Yellowstone Ecosystem; leadership, cultural heritage, ...

Keywords

Please separate keywords/keyword phrases with commas.

Abstract

Paste or type your abstract:

B *I* | | | | | | |

Search Engine Optimization

Descriptive page title

Suggest how the book gallery title will appear in search engine results:

Yellowstone Youth Conservation Corps Resource Education Curriculum

Search description

Suggest text used to describe the book gallery in search engine results:

Yellowstone Youth Conservation Corps (YELL-YCC) Resource Education Curriculum (REC); Greater Yellowstone Ecosystem; leadership, cultural heritage, ecological relationships, stewardship, and sustainability

Google Analytics

All Sessions
100.00%

+ Add Segment

Overview

Sessions vs. Select a metric

Hourly Day

Sessions

200

100

WySR launched



July 2012

January 2013

July 2013

January 2014

July 2014

DC Usage Reports

- Reports for IR administrators
 - Hit Reports, Full-Text and Additional File Download Reports**, Referral Reports
- Reports for editors
 - Publication Editor Report
- Reports for authors
 - Author Dashboard, **Automatic Monthly Author Readership Report**,
On-Demand Download Report
- Report for institutional stakeholders
 - IR Activity Summary E-mail**,
Publication Activity Summary E-mail

The image shows two overlapping screenshots. The background screenshot is the 'Usage Reports' web interface for the College of Education Research Symposium. It features a navigation bar with 'Configuration', 'My Account', and 'Logout'. The main content area is titled 'Usage Reports - Hits' and includes a form for generating reports. The form has a dropdown for 'Report' set to 'Hits', a checked checkbox for 'Include items collected from other structures', and checkboxes for 'Metadata pages' and 'Full text'. There are also dropdowns for 'Aggregate hits per' (set to 'Total') and 'Specify Date Range' (set to 'Past 30 days'). A blue button labeled 'Email me the report' is at the bottom right. A footer note reads 'Copyright © 1999-2014 Berkeley Electronic Press™'. The foreground screenshot is an email preview from 'DC reports <noreply@bepress.com>' with the subject 'Wyoming Scholars Repository usage information for July 2014'. The email body includes a greeting to Yumi Ohira, a summary of usage for July 2014 (4964 full-text downloads and 174 new submissions), and a list of popular papers with their titles and download counts, such as 'Reconstructing the South: How Commercial Myths Compete for Identity Value through the Ideological Shaping of Popular Memories and Counter-memories (132 downloads)'.

(3) Challenges

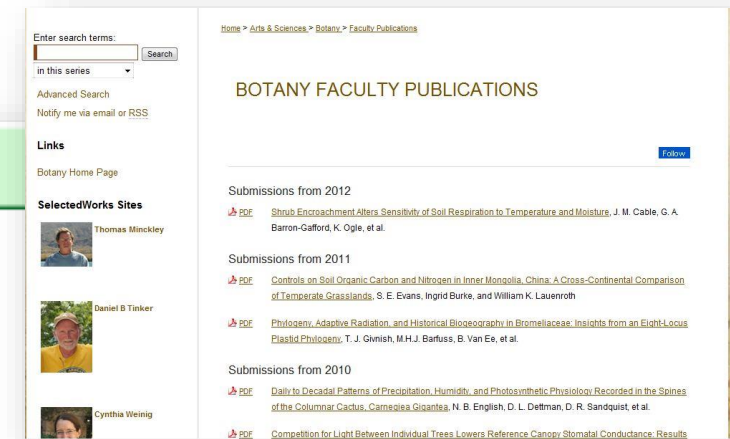
- The submission of electronic materials
- Varying publisher **copyright policies**
- Difficulties in obtaining **postable publisher version PDFs**
- Technical limitations



The screenshot shows the SHERPA/ROMEO website interface. At the top, there is a green header with the SHERPA/ROMEO logo and the text "Publisher copyright policies & self-archiving". Below the header, there is a search section with the following options:

- Journal titles or ISSNs Publisher names
- Exact title starts with contains ISSN

There are also buttons for "Advanced Search", "Search", and "Reset". At the bottom of the search section, there is a note: "Use this site to find a summary of permissions that are normally given as part of each publisher's copyright transfer agreement."

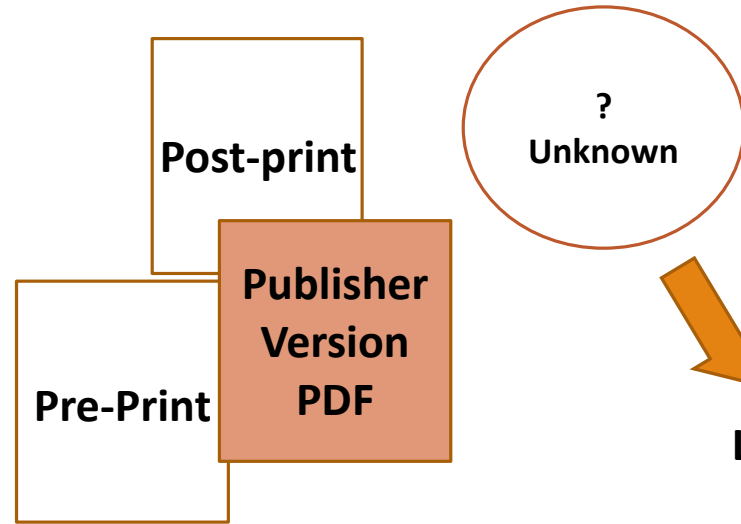
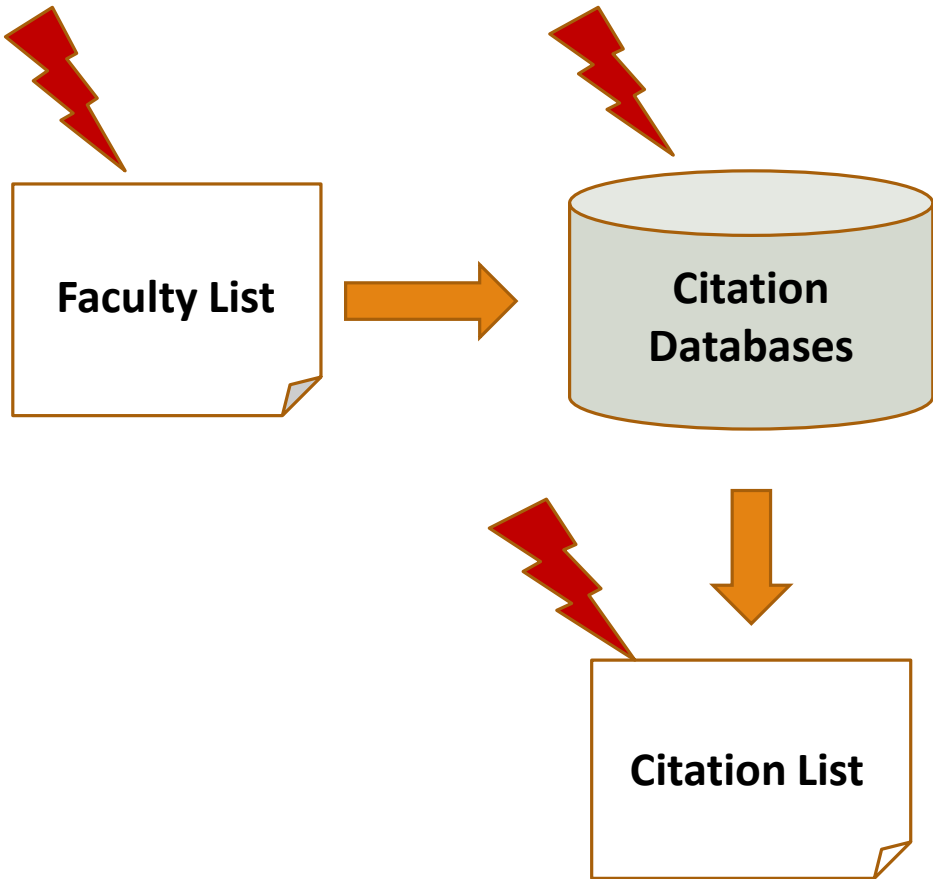


The screenshot shows the Botany Faculty Publications website. At the top, there is a search bar with the text "Enter search terms:" and a "Search" button. Below the search bar, there is a dropdown menu for "in this series". There are also links for "Advanced Search" and "Notify me via email or RSS".

The main content area is titled "BOTANY FACULTY PUBLICATIONS" and includes a "Follow" button. Below this, there are sections for "Submissions from 2012", "Submissions from 2011", and "Submissions from 2010". Each section lists publications with PDF icons and author names.

- Submissions from 2012:** [PDF](#) [Shrub Encroachment Alters Sensitivity of Soil Respiration to Temperature and Moisture](#), J. M. Cable, G. A. Barron-Gafford, K. Ogle, et al.
- Submissions from 2011:** [PDF](#) [Controls on Soil Organic Carbon and Nitrogen in Inner Mongolia, China: A Cross-Continental Comparison of Temperate Grasslands](#), S. E. Evans, Ingrid Burke, and William K. Lauenroth
- Submissions from 2010:** [PDF](#) [Phylogeny, Adaptive Radiation, and Historical Biogeography in Bromeliaceae: Insights from an Eight-Locus Plastid Phyloem](#), T. J. Givnish, M.H.J. Barfuss, B. Van Ee, et al.
- [PDF](#) [Daily to Decadal Patterns of Precipitation, Humidity, and Photosynthetic Physiology Recorded in the Spines of the Columnar Cactus, *Carnegiea gigantea*](#), N. B. English, D. L. Dettman, D. R. Sandquist, et al.
- [PDF](#) [Competition for Light Between Individual Trees Lowers Reference Canopy Stomatal Conductance, Results](#)

(3-1) Copyrights/Permissions



Letters requesting permissions

The screenshot shows the SHERPA/ROMEO website interface. At the top is the SHERPA/ROMEO logo. Below it is the heading 'Publisher copyright policies & self-archiving'. There is a search bar with the following options: 'Journal titles or ISSNs' (selected), 'Publisher names', 'Exact title', 'starts with', 'contains', and 'ISSN'. There are buttons for 'Advanced Search', 'Search', and 'Reset'. At the bottom, there is a note: 'Use this site to find a summary of permissions that are normally given as part of each publisher's copyright transfer agreement.'

The screenshot shows a formal letter from the University of Wyoming. The letterhead includes the University of Wyoming logo and contact information for the University Libraries. The date is June 27, 2014. The recipient is the Editor of The Western Historical Quarterly. The letter is addressed to 'Dear Sir/Madam' and is written on behalf of Professor Renee M. Laegreid. It requests permission to deposit the full text of an article from the journal into the university's institutional repository. The article is identified as 'Renee M. Laegreid, Spring 2013, "Wyoming Will Be Your New Home... Ranching, Farming, and Homesteading in Wyoming, 1860-1950" Western Historical Quarterly, vol. 44(1), pp. 85 - 86'. The letter concludes with a request for a reply and is signed by Kelly Viseak, a Scholarly Communication Librarian at the University of Wyoming Libraries.

WEB OF SCIENCE™ THOMSON REUTERS™

Search Web of Science™ Core Collection My Tools Search History Marked List

Welcome to the new Web of Science! View a brief tutorial.

Advanced Search

Use field tags, Boolean operators, parentheses, and query sets to create your query. Results will appear in the Search History table at the bottom of the page. (Learn more about Advanced Search)

Example: TS=(nanotub* AND carbon) NOT AU=Smalley RE #1 NOT #2 more examples | view the tutorial

AU=Mittelstaedt AND OQ=University of Wyoming

Search

Restrict results by languages and document types:

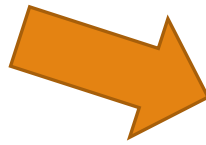
All languages English Afrikaans Arabic All document types Article Abstract of Published Item Art Exhibit Review

Booleans: AND, OR, NOT, SAME, NEAR

Field Tags:

TS= Topic SA= Street Address AI= Author Identifiers GP= Group Author ED= Editor SO= Publication Name DO= DOI PV= Year Published AD= Address OG= Organization-Enhanced OO= Organization

SG= Suborganization CI= City PS= Province/State CU= Country ZP= Zip/Postal Code FO= Funding Agency FG= Grant Number FT= Funding Text SU= Research Area WC= Web of Science Category IS= ISSN/ISBN UT= Accession Number



Core Collection) Sort by: Publication Date -- newest to oldest

Select Page Save to EndNote online Add to Marked List

1. **Changing the marketplace one behavior at a time: Perceived marketplace influence and sustainable consumption**
By: Leary, R. Bret; Vann, Richard J.; Mittelstaedt, John D., et al. JOURNAL OF BUSINESS RESEARCH Volume: 67 Issue: 9 Pages: 1953-1958 Published: SEP 2014 Find @ UW View Abstract

2. **Subsistence Consumer-Merchant Marketplace Deviance in Marketing Systems: Antecedents, Implications, and Recommendations**
By: Upadhyaya, Shikha; Vann, Richard J.; Camacho, Sonia; et al. JOURNAL OF MACROMARKETING Volume: 34 Issue: 2 Special Issue: SI Pages: 145-159 Published: MAR 2014 Find @ UW View Abstract

3. **Consumption Behavior as Energy Consumption: A Marketing Systems Perspective**
By: Mittelstaedt, John D.; Mittelstaedt, Robert A. JOURNAL OF MACROMARKETING Volume: 33 Issue: 4 Pages: 395-395 Published: DEC 2013 Find @ UW

4. **The protection of intellectual property: Issues of origination and ownership**
By: Mittelstaedt, JD; Mittelstaedt, RA. JOURNAL OF PUBLIC POLICY & MARKETING Volume: 16 Issue: 1 Pages: 14-25 Published: SPR 1997



A	B	C	D	E	F	G
1	PT AU	BA	BE	GP	AF	CA TI
2	J Sun, W; Resco, V; Williams, DG				Sun, Wei; Resco, Victor; Williams, David G.	Environmental
3	J Liancourt, P; Sharkhuu, A; Ariuntsetseg, L; Boldgiv, B; Helliker, BR; Plante, AF; Petraitis, PS; Casper, BB				Liancourt, Pierre; Sharkhuu, Anarmaa; Ariuntsetseg, Lkhagva; Boldgiv, Bazartseren; Helliker, Bre	Temporal and
4	J Hunter, CT; Kirienko, DH; Sylvester, AW; Peter, GF; McCarty, DR; Koch, KE				Hunter, Charles T.; Kirienko, Daniel Hill; Sylvester, Anne W.; Peter, Gary F.; McCarty, Donald R.; K	Cellulose Synt
5	J McKenzie, DA; Tinker, DB				McKenzie, David A.; Tinker, Daniel B.	Fire-induced s
6	J Peek, S; Clementz, MT				Peek, Stephanie; Clementz, Mark T.	Starch grain m
7	J Baenziger, PS; Graybosch, RA; Regassa, T; Nelson, LA; Klein, RN; Santra, DK; Baltensperger, DD; Krall, JM				Baenziger, P. S.; Graybosch, R. A.; Regassa, T.; Nelson, L. A.; Klein, R. N.; Santra, D. K.; Baltensper	Registration of
8	J Osanai, Y; Flittner, A; Janes, JK; Theobald, P; Pendall, E; Newton, PCD; Hovenden, MJ				Osanai, Yui; Flittner, Anna; Janes, Jasmine K.; Theobald, Phil; Pendall, Elise; Newton, Paul C. D.;	Decompositor
9	J Evans, SE; Byrne, KM; Lauenroth, WK; Burke, IC				Evans, Sarah E.; Byrne, Kerry M.; Lauenroth, William K.; Burke, Ingrid C.	Defining the li
10	J Kniss, AR; Vassios, JD; Nissen, SJ; Ritz, C				Kniss, Andrew R.; Vassios, Joseph D.; Nissen, Scott J.; Ritz, Christian	Nonlinear Reg
11	J Carrillo, Y; Pendall, E; Dijkstra, FA; Morgan, JA; Newcomb, JM				Carrillo, Yolima; Pendall, Elise; Dijkstra, Feike A.; Morgan, Jack A.; Newcomb, Joanne M.	Response of sc
12	J Carrillo, Y; Jordan, CF; Jacobsen, KL; Mitchell, KG; Raber, P				Carrillo, Yolima; Jordan, Carl F.; Jacobsen, Krista L.; Mitchell, Kathryn G.; Raber, Patrick	Shoot pruning
13	J Lou, P; Xie, Q; Xu, X; Edwards, CE; Brock, MT; Weing, C; McClung, CR				Lou, P.; Xie, Q.; Xu, X.; Edwards, C. E.; Brock, M. T.; Weing, C.; McClung, C. R.	Genetic archit
14	J Kayes, LJ; Puettmann, KJ; Anderson, PD				Kayes, Lori J.; Puettmann, Klaus J.; Anderson, Paul D.	Short-term bry
15	J Kniss, AR; Lyon, DJ; Vassios, JD; Nissen, SJ				Kniss, Andrew R.; Lyon, Drew J.; Vassios, Joseph D.; Nissen, Scott J.	MCPA Synergi
16	J Odero, DC; Mesbah, AO; Miller, SD; Kniss, AR				Odero, Dennis C.; Mesbah, Abdel O.; Miller, Stephen D.; Kniss, Andrew R.	Interference o
17	J Elliott, M; Schneider, K; Honeycutt, E; Brlansky, R; Kriss, A; Donofrio, N; Liu, J; Durham, T; Ong, K; Grabow				Elliott, M.; Schneider, K.; Honeycutt, E.; Brlansky, R.; Kriss, A.; Donofrio, N.; Liu, J.; Durham, T.; O	APS works for
18	J Humphries, JA; Vejlupekova, Z; Luo, AD; Meeley, RB; Sylvester, AW; Fowler, JE; Smith, LG				Humphries, John A.; Vejlupekova, Zuzana; Luo, Anding; Meeley, Robert B.; Sylvester, Anne W.; Fc	ROP GTPases A
19	J Givnish, TJ; Barfuss, MHJ; Van Ee, B; Riina, R; Schulte, K; Horres, R; Gonsiska, PA; Jabaily, RS; Crayn, DM; Givnish, Thomas J.; Barfuss, Michael H. J.; Van Ee, Benjamin; Riina, Ricarda; Schulte, Katharina; H				PHYLOGENY, A	
20	J Williams, JW; Blois, JL; Shuman, BN				Williams, John W.; Blois, Jessica L.; Shuman, Bryan N.	Extrinsic and ir
21	J Bontti, EE; Burke, IC; Lauenroth, WK				Bontti, Eliana E.; Burke, Ingrid C.; Lauenroth, William K.	Nitrogen parti



Marked List 3 records

Your Marked List contains records from 1 database(s). For bibliographic data, you can output summary data for all records using the "total records" view, or output more product-specific data from each listed database.

3 total records on the Marked List
Output: author, title, source, abstract, and times cited for all records in the Marked List.

3 records from Web of Science™ Core Collection
Output: complete data from this product for these records.

Output Records [- Hide Output Options]

Step 1: Select records. All records in this list (up to 500)

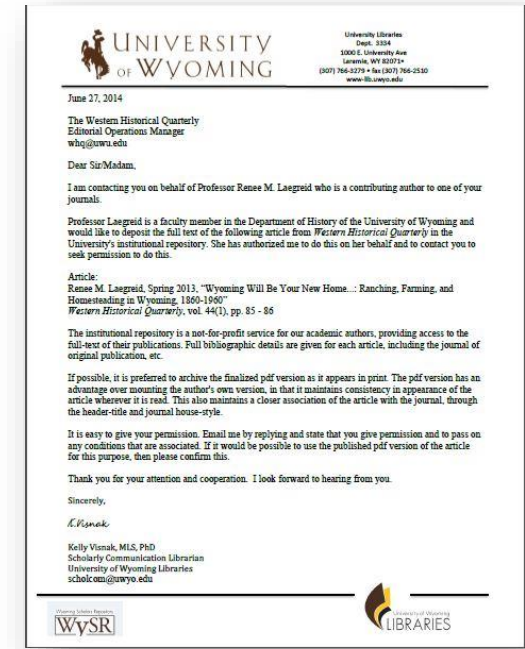
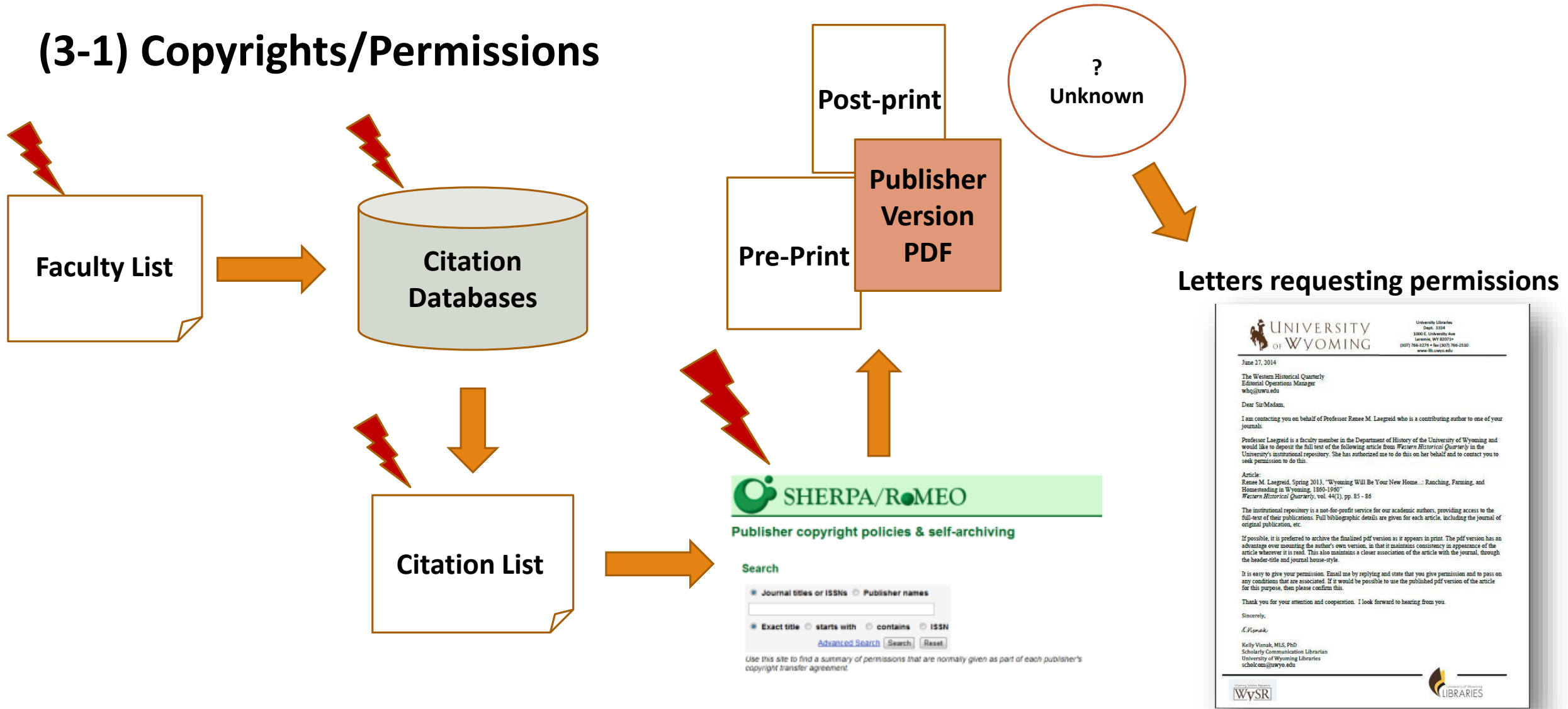
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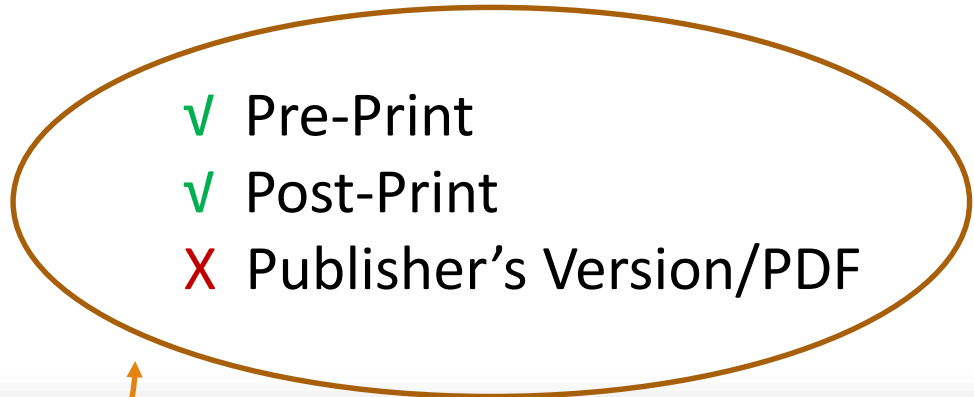
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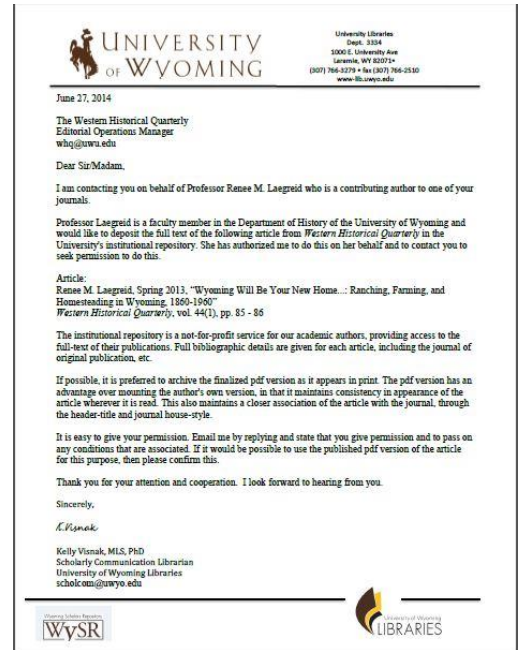
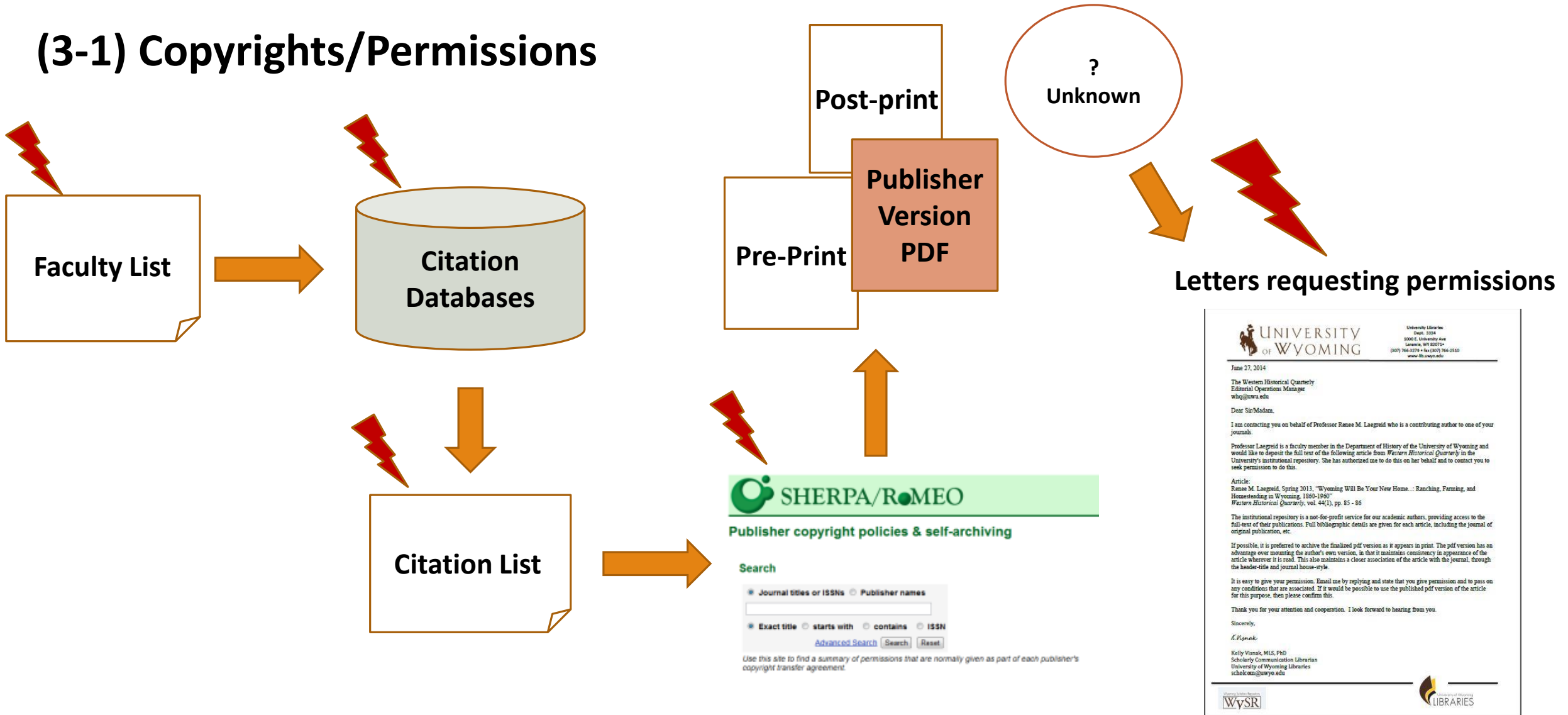
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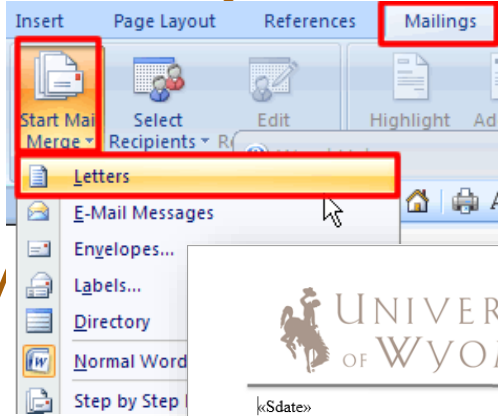
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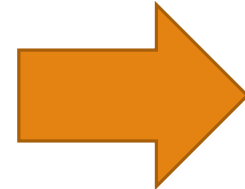
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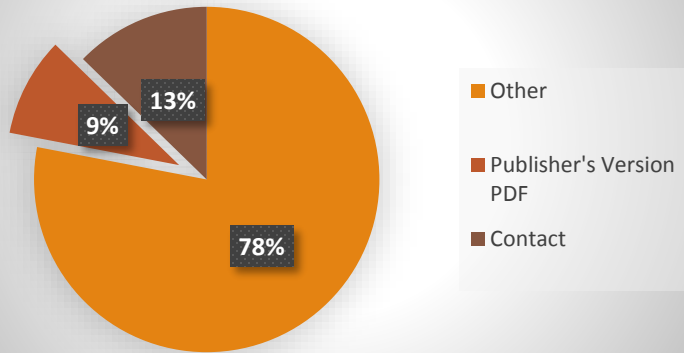
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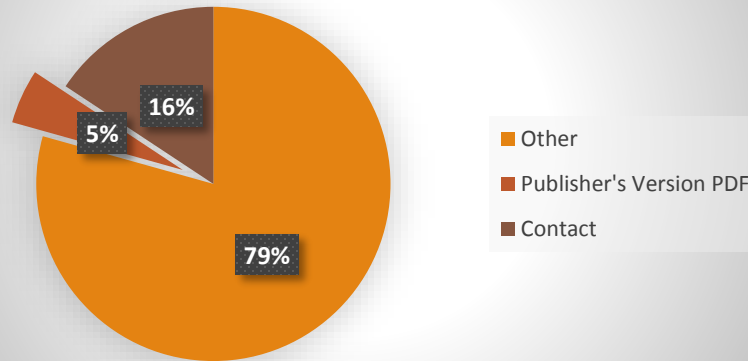
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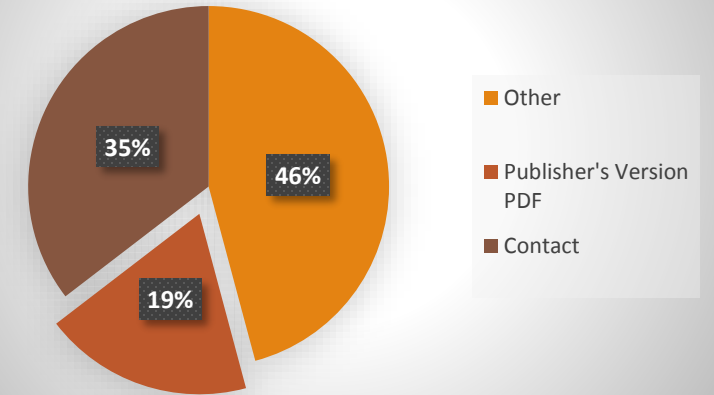
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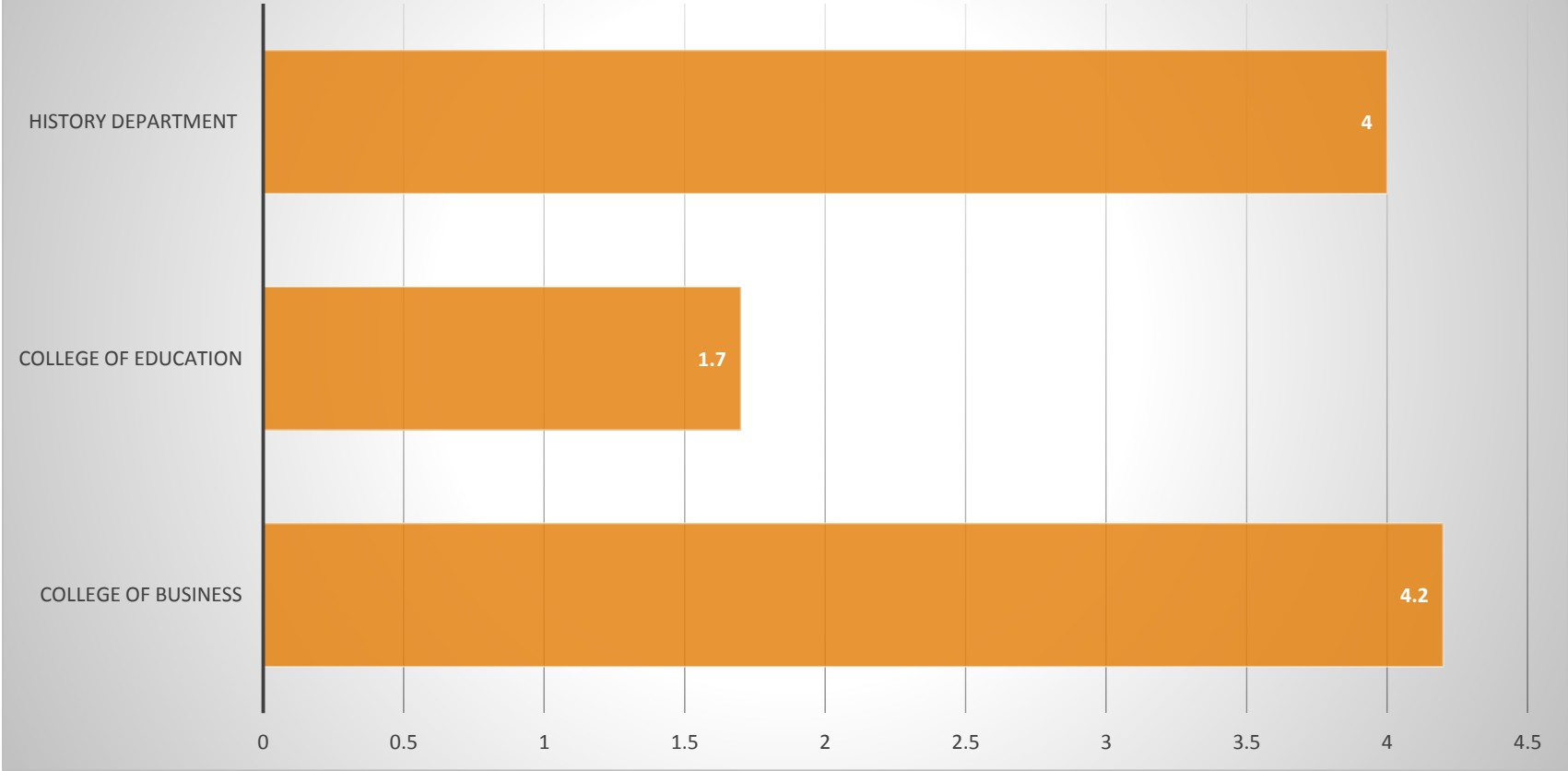
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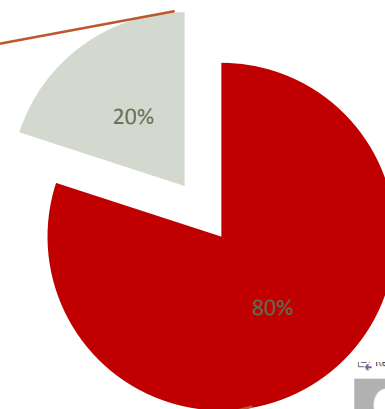
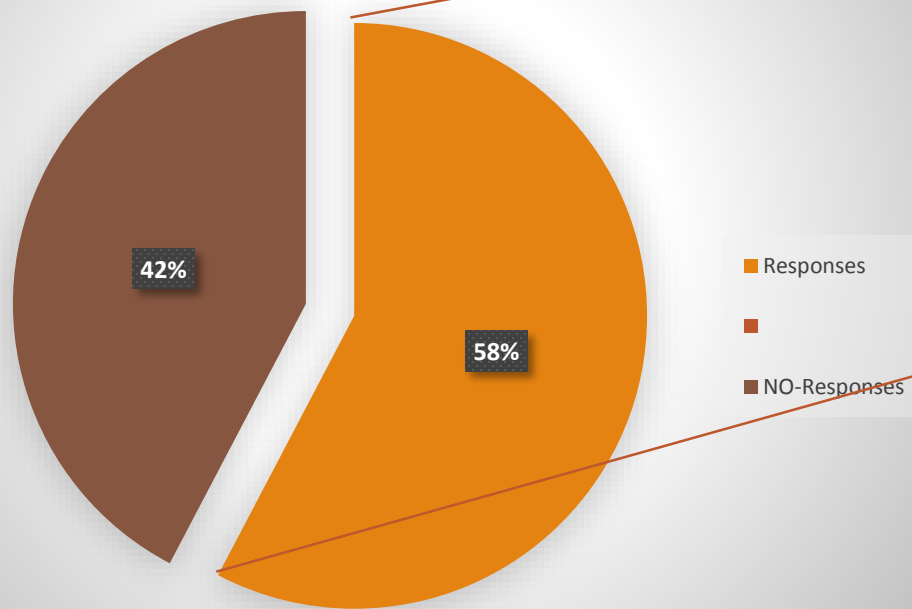
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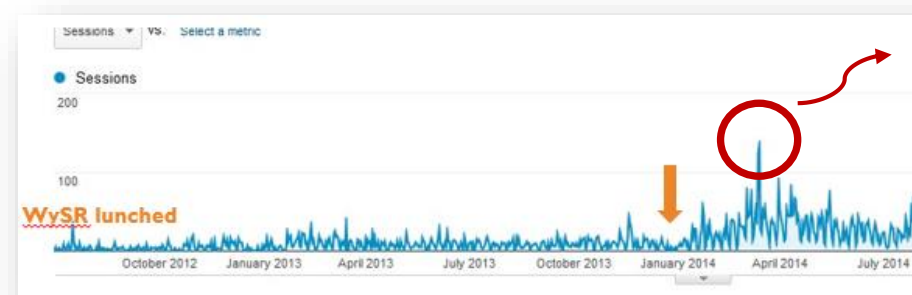
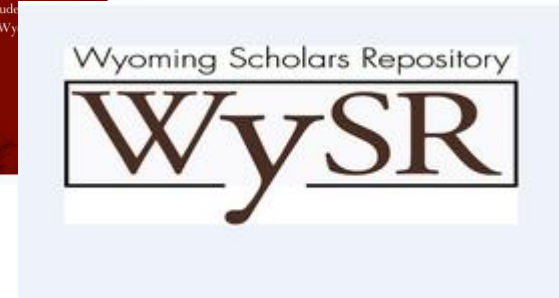
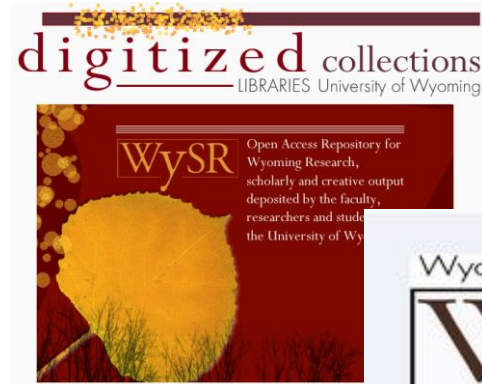


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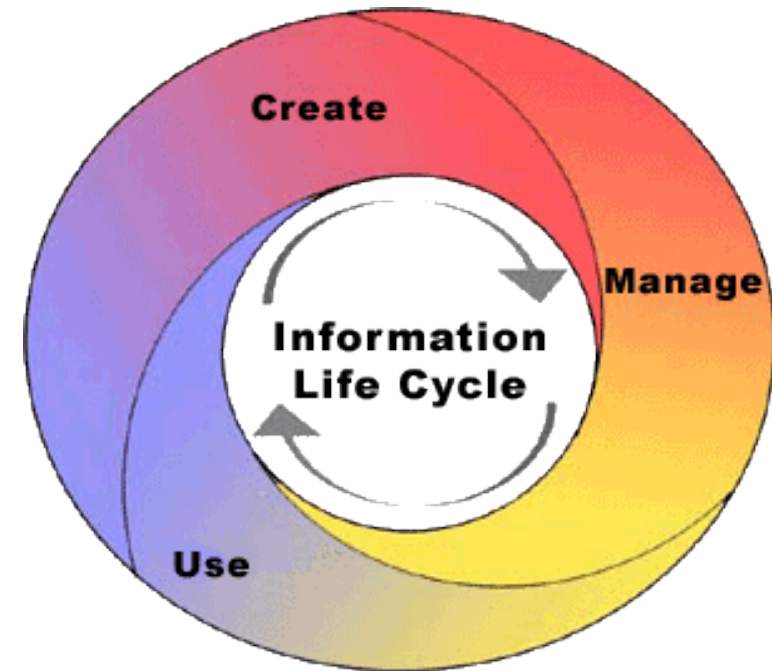


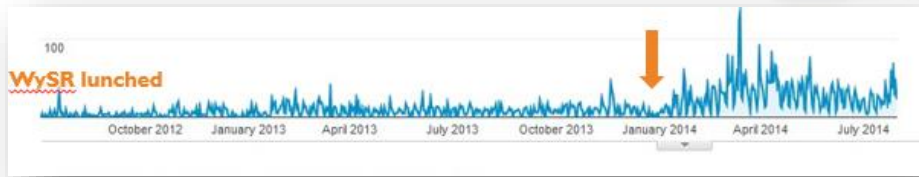
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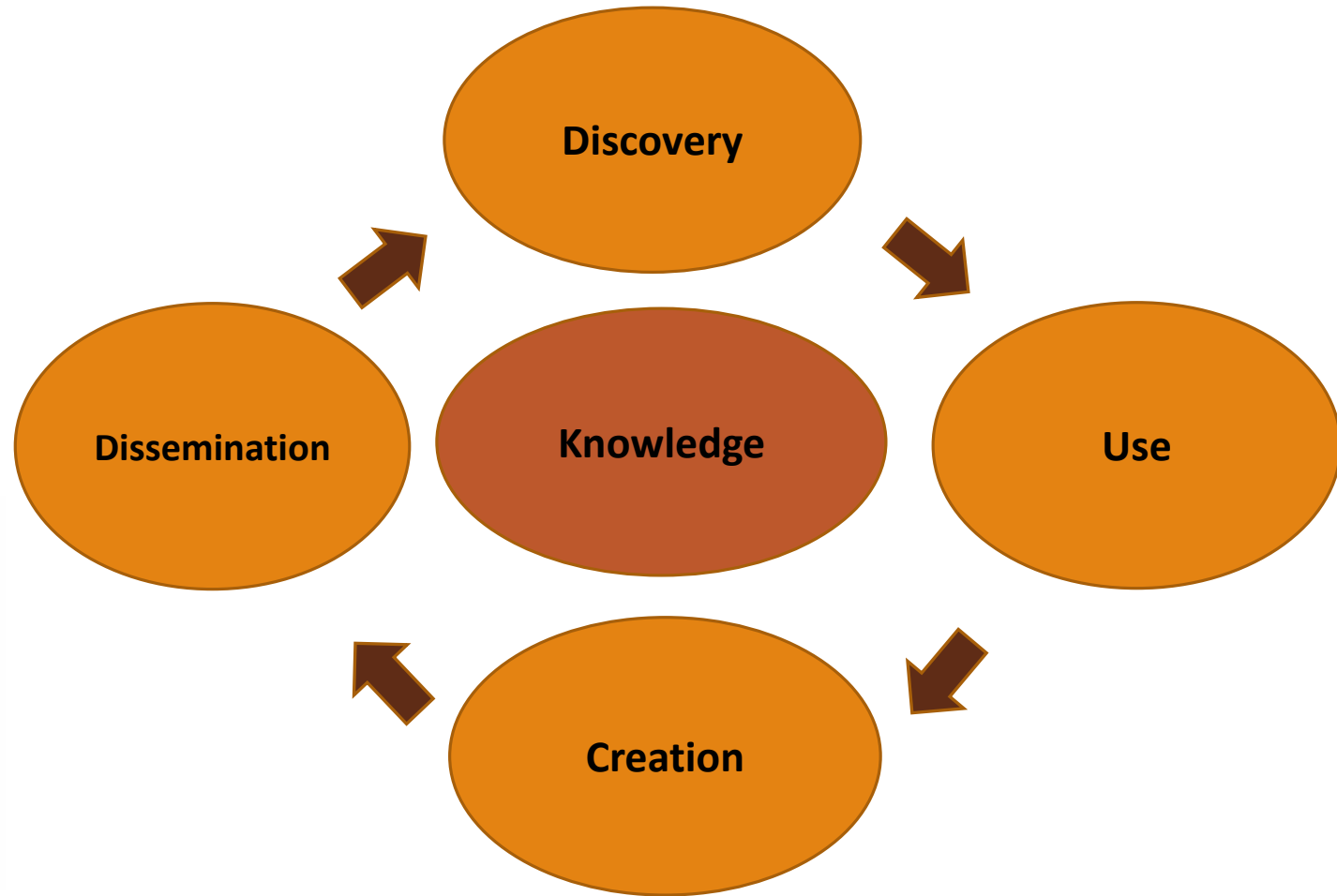
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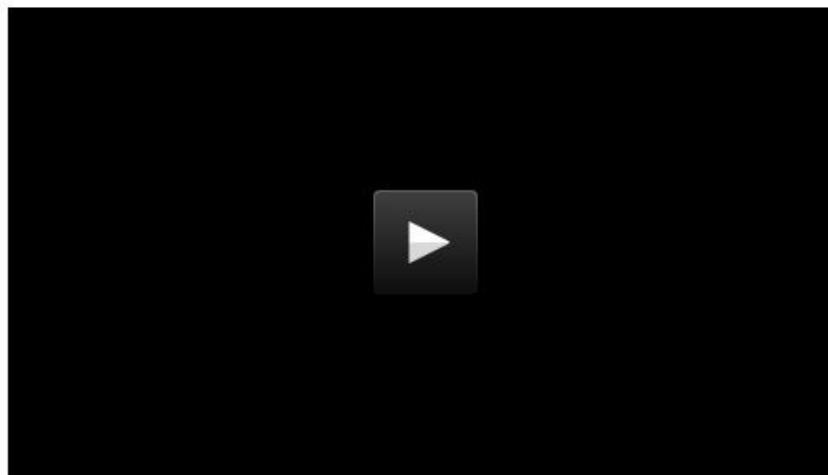
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Kristen Schulte & Ana Houseal

March 2014

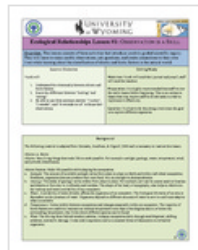
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01. Overview of the Resource Education Curriculum Progression

Kristen Schulte and Ana K. Houseal



02. Ecological Relationships Lesson #1: OBSERVATION IS A SKILL

Kristen Schulte and Ana K. Houseal

This lesson consists of three activities that introduce youth to guided scientific inquiry. They will learn to make careful observations, ask questions, and create connections to their own lives while learning about the classification of abiotic and biotic factors in the natural world.

is home to the Yellowstone's Youth Conservation Corps (YELL-YCC), a residential youth employment program. The program implements stewardship concepts through projects. Education is integrated into all projects, including the Resource Education Curriculum (REC). This curriculum consists of 17 one-hour lessons developed to enhance the

learning of 12th grade students in outdoor settings, divided into groups of 4-6 students each, highlighting the Greater Yellowstone Ecosystem, but is adaptable in group size, level, and content. The REC is divided into three sections: cultural heritage, ecological relationships, stewardship, and sustainability. They are designed to be printed on 11" x 17" card stock. The pages need to be cut in half and sorted before being taken into the field.

We would like to thank the following individuals for their help in the development, implementation, editing, and formatting of the REC: Liz Flaherty, Bob Garrison, Matt Ohlen, and YELL-YCC Staff. The Science and Mathematics Teaching Center and the Natural Resources at the University of Wyoming supported this work. The products are those of the

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LARAMIE: A GEM CITY ATLAS

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IMAGE LOCATION



Description

Here in Wyoming we're surrounded by these famously beautiful mountains, and the natural environment seems to be integral to Laramie's character. So started thinking of Laramie as an outward facing city, looking out toward the other Laramie's, the Laramie River, the Laramie mountain range, Laramie Peak. But it feels incomplete to define a

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2014 Education Research Symposium Schedule

The College of Education Scholarship and Research Symposium, an annual event highlighting scholarly activities by College of Education faculty and graduate students, is scheduled for **Friday, March 7th, 2014**.

Keynote Speakers

Richard Crandall

Director, Wyoming Department of Education

Dick McGinity

President, University of Wyoming

When: Friday, March 7
8 a.m. - 4 p.m.

Where: Education Annex

The College of Education Scholarship and Research Symposium is an annual meeting that serves as a forum for faculty and graduate students to present their scholarship and research. In particular, the Symposium is designed to promote and reinforce scholarly activity among graduate students (doctoral and master's) in the College of Education. The Symposium provides an informal (and potentially rich) opportunity to inform faculty and graduate students about the diverse scholarly activities presently being conducted. Specifically, the Symposium will provide faculty

2014

Friday, March 7th

8:00 AM	<p><u>Breakfast and Registration</u></p> <p>College of Education, <i>University of Wyoming</i> ED Annex 318 8:00 AM - 8:30 AM</p>
8:30 AM	<p><u>Welcome- Martin Agran and Dean Day</u></p> <p>Richard Crandall, <i>Department of Education, University of Wyoming</i> ED Annex 318 8:30 AM - 9:15 AM</p>
9:30 AM	<p><u>Counselor's comfort level with sexual topics: Preliminary review, current direction and anticipated results</u></p> <p>Molly Rose Wilson, <i>University of Wyoming</i> ED Annex 211 9:30 AM - 10:30 AM</p>
	<p><u>Que luchan por su intereses (To fight for your interests): Using Photovoice to Engage and Empower Newcomer Immigrant Students and Parents</u></p> <p>Kevin Roxas, <i>University of Wyoming</i> Kent Becker, <i>University of Wyoming</i> Maria Gabriel, <i>University of Wyoming</i> ED Annex 308 9:30 AM - 10:30 AM</p>
	<p><u>Radical constructivist grounded theory: A hybrid epistemology</u></p> <p>Shashidhar Belbase, <i>University of Wyoming</i> ED Annex 318 9:30 AM - 10:30 AM</p>




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Volume 25 (2001) 25th Annual Report, 2001

Feature Article

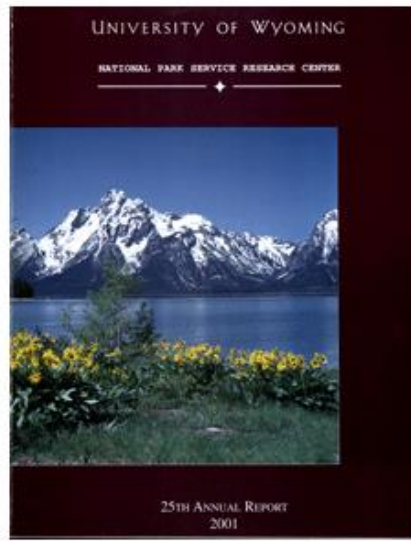
 [PDF](#) Amphibian and Reptile Inventory and Monitoring Grand Teton and Yellowstone National Parks, 2001
Debra Patla

Front Matter

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Henry J. Harlow and Maryanne Harlow

Grand Teton National Park Reports

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My research focuses on information literacy instruction, visual literacy, and the intersection of the arts and academic libraries.

Library and Information Science

- [Link](#) **Engagement and Assessment in a Credit-Bearing Information Literacy Course** (with Melissa Bowles-Terry), *Reference Services Review* (2013)
- Purpose* – The authors teach a three-credit, upper-division, information literacy (IL) course to students in...
- [File](#) **Participation on the High Plains: Increasing Student Engagement in an Upper-Division, Three-Credit Information Literacy Course** (with Melissa Bowles-Terry), *LOEX of the West* (2012)
- The presenters teach a three-credit, upper-division information literacy course to students in various majors. In...
- [File](#) **Embedding Information Literacy into a Studio Art Course**, *Handbook of Art and Design Librarianship for Higher Education* (2010)
- Academic art librarians frequently provide information literacy (IL) instruction for art history students. It is...
- [File](#) **From the Rockies to the Volga: A Partnership between Librarians at the University of Wyoming and Saratov State University** (with Jamie P. Kearley), *Association of College & Research Libraries* (2009)
- Session Description: Join us as we take you on a tour of the cities of...
- [PDF](#) **Academic Libraries Supporting Visual Culture: A Survey of Image Access and Use** (with Cheryl Goldenstein), *Art Documentation* (2009)

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