

LibraryFind[®]

Better Discovery. Easy Delivery.

LibraryFind Vision

- Universal platform for scholarly activity
- Better discovery
- Easy delivery
- Open source, easily adoptable
- Extensible



Libraries

information

service

innovation

A A A

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New Fine Arts Print Collection available online...

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If you need help with finals, drop-in tutoring is available in the [CLC](#).



collaborative learning center

VISIT THE CLC

Staff Picks

Award winning books at the

[Valley Library](#)



The House on the Lagoon

by [Rosario Ferre](#)

Featured

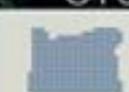
Win a scholarship for your research at the OSU Libraries.



DISCOVER



Oregon



EXPLORER

Natural Resources Digital Library

ask a librarian



OSULibraries is offline
leave a message

Type **here** and hit enter to send an offline message.

edit nickname: [meeboguest435643](#)



get meebop

To browse and chat, [float the box](#)

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GIVING TO



Libraries

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BA 590: New Product Development

Course Instructor

Name: Keven Malkewitz

Ask the Instructor: [Email!](#)

Office Location: 410 Bexell Hall

[Instructor's Website](#)

LibraryFind Search for Business

Enter keywords

Go

Search results open in a new window

Market Research

[Intel Market Research Reports](#)

Market research information relating to consumer goods and services. Information is gathered from original market research, analysis of official data and surveys and is then packaged into reports. Each report follows a similar format, including sections on market, suppliers...

Course Librarian

Librarian: Laurie Bridges



Office Location: The Valley Library

Chat: VLibLaurie

Ask the Librarian: [Email Me!](#)

Laurie the Librarian



vliblaurie is offline
leave a message

- results)
- [More Authors...]
- Databases**
- EBSCOHost Academic Search Premier (25 results)
- EBSCOHost Business Source Premier (25 results)
- Oregon State University Library Catalog (25 results)
- Electronic Theses and Dissertations (25 results)
- OSU EAD (25 results)
- Archives (25 results)
- Oregon Explorer (25 results)
- U.S. Forest Service Research Legacy (25 results)
- Braceros in Oregon Photograph Collection (5 results)
- Electronic Books (5 results)
- [More Databases...]

[Citation](#) [Save This Item](#) [more from 'Oregon State University Library Catalog'](#)



[Book] [Agriculture and the Common Market.](#)
Call Number: HD1920.5 .A64
 Andrews | Agriculture Economic aspects European Economic Community countries.;
 1973 Iowa State University Press
[Citation](#) [Save This Item](#) [more from 'Oregon State University Library Catalog'](#)

[Book] [Agriculture and the quality of our environment. Nyle C. Brady, editor.](#)
Call Number: TD883.1 .B7 1966
 American Association for the Advancement of Science | Agriculture.; Pollution
 1967 Agriculture and the quality of our environment. Nyle C. Brady, editor.
[Citation](#) [Save This Item](#) [more from 'Oregon State University Library Catalog'](#)



[Image] [Agriculture Hall](#)
 Campus buildings; Agriculture Hall; Education Hall; Science Hall; Burggraf, Charles
 1905 Agriculture Hall
[Citation](#) [Save This Item](#) [more from '65'](#)

[Image results for Oregon State University collections](#)



- results)
- [More Authors...]
- Databases**
- EBSCOHost Academic Search Premier (25 results)
- EBSCOHost Business Source Premier (25 results)
- Oregon State University Library Catalog (25 results)
- Electronic Theses and Dissertations (25 results)
- OSU EAD (25 results)
- Archives (25 results)
- Oregon Explorer (25 results)
- U.S. Forest Service Research Legacy (25 results)
- Braceros in Oregon Photograph Collection (5 results)
- Electronic Books (5 results)
- [More Databases...]

[Citation](#) [Save This Item](#) [more from 'Oregon State University Library Catalog'](#)

[Book] **[Agriculture and the Common Market.](#)**
Call Number: HD1920.5 .A64
 Andrews | Agriculture Economic aspects European Economic Community countries.;
 1973 Iowa State University Press

Author: Andrews
Title: Agriculture and the Common Market.
Publisher: Iowa State University Press
Date: 1973
ISBN: 0813800307

[Citation](#) [Save This Item](#) [more from 'Oregon State University Library Catalog'](#)

[Book] **[Agriculture and the quality of our environment. Nyle C. Brady, editor.](#)**
Call Number: TD883.1 .B7 1966
 American Association for the Advancement of Science | Agriculture.; Pollution
 1967 Agriculture and the quality of our environment. Nyle C. Brady, editor.

Author: American Association for the Advancement of Science
Title: Agriculture and the quality of our environment. Nyle C. Brady, editor.
Publisher:
Date: 1967
ISBN:

[Citation](#) [Save This Item](#) [more from 'Oregon State University Library Catalog'](#)



LibraryFind: retrieve_page - Windows Internet Explorer

http://apollo.library.oregonstate.edu:3001/record/retrieve_page?completed=8393%2C8394%2C8395%2C8396%2C8397%2C8398%2C8399%2C8400%2C8401%2C8402%2C

LibraryFind: retrieve_page

LibraryFind® [Advanced Search](#)

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Search results for 'water problems' > 'Article'

Refine Results

Material Types
[Unfilter Material Types](#)

Subjects
Watersheds -- Oregon -- Umpqua River Basin (1 results)
Umpqua River Watershed (Or (1 results))

Authors
Colvin (3 results)
Laws (2 results)
Bennett (2 results)
Knack (2 results)
Ashford (2 results)
Meyer (2 results)
Tucker (2 results)
Hasselbacher (1 results)
Cline (1 results)
Fisher (1 results)
[\[More Authors...\]](#)

Databases
EBSCOHost Academic Search Premier (25 results)
EBSCOHost Business Source Premier (25 results)
Oregon Explorer (1 results)

Results 1 - 10 of 3405 hits Sort by:

[Article] [Some water problems and hydrologic characteristics of the Umpqua Basin](#)
Master files scanned at 600 ppi (256 Grayscale, 24-bit Color) using Capture Perfect 3.0 on a Canon DR-9080C in TIF format. PDF derivative scanned at 300 ppi (256 B&W, 24-bit Color), using Capture Perfect 3.0, on a Canon DR-9080C.
Some water problems and hydrologic characteristics of the Umpqua Basin
[Full Abstract](#) [Citation](#) [Save This Item](#) [more from 'Oregon Explorer'](#)

[Article] [Dow Continues to Solve Water Problems](#)
Information on the China-U.S. Environmental Industries Forum held on October 21, 2008 in Beijing, China is presented. The forum was a collaboration among the U.S. Department of Commerce, the U.S. Environmental Protection Agency a
NOV, 2008 China Chemical Reporter
[Full Abstract](#) [Citation](#) [Save This Item](#) [more from 'EBSCOHost Academic Search Premier'](#)

[Article] [Using MODFLOW 2000 to Model ET and Recharge for Shallow Ground Water](#)
In environments with shallow ground water elevation, small changes in the water table can cause significant variations in recharge and evapotranspiration fluxes. Particularly, where ground water is close to the soil surface, both
JAN, 2009 Ground Water
[Interlibrary Loan](#) [Full Abstract](#) [Citation](#) [Save This Item](#) [more from 'EBSCOHost](#)

[Article] [Promoting Groundwater Reform in the Guadiana Basin](#)
The article provides information on promoting groundwater reform to be able to fill in the gap between existing water institutions and the institutions needed to ensure sustainable water supplies for the future. The establishment
DEC, 2008 American Journal of Agricultural Economics
[Full Abstract](#) [Citation](#) [Save This Item](#) [more from 'EBSCOHost Business Source Premier'](#)

Done Internet 100%

(some user-noticed)

LibraryFind Features

- Two-click workflow
- Facets for browsing / limiting
- Ability to sort by relevance or date
- Breadcrumb trail
- Quick citation information
- Link to resource collection
- RSS Linking

(some under-the hood)

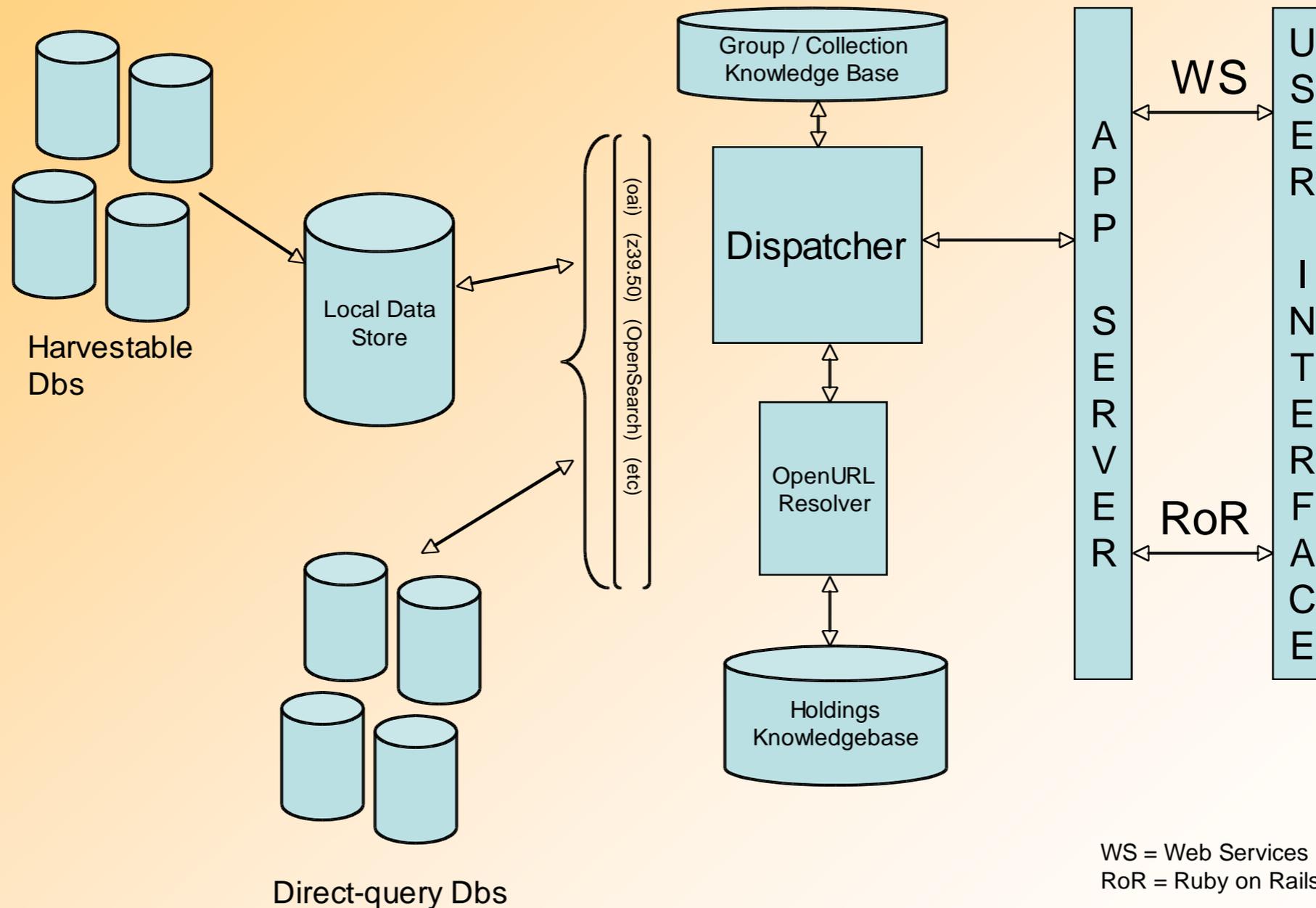
LibraryFind Features

- “Look-ahead” OpenURL resolution
- Smart ILL link display
- Dynamic, on-the-fly facet creation
- Extensively user-tested user interface
- Search caching
- Ability to locally index harvestable collections

(some more under-the-hood) LibraryFind Features

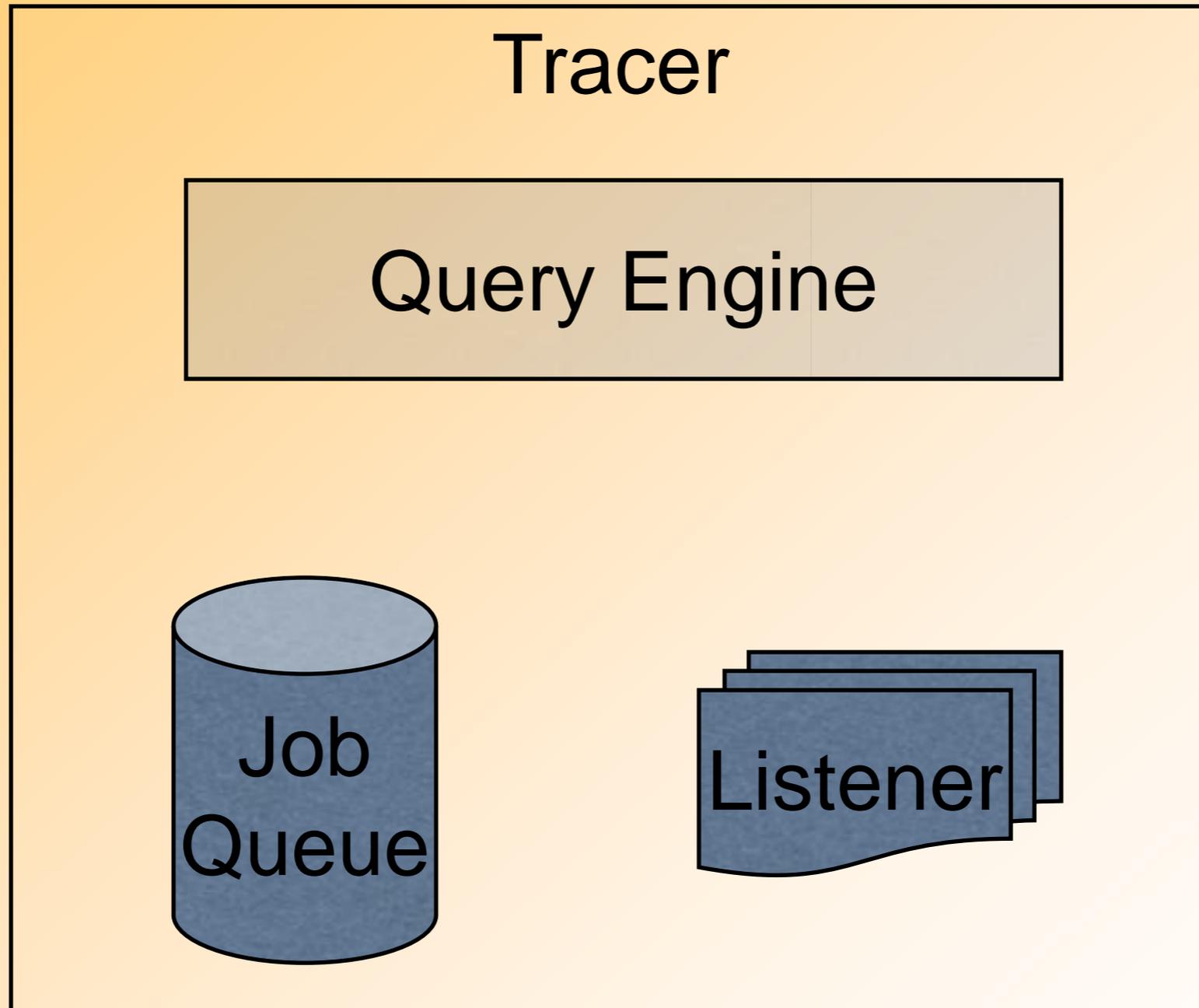
- Extensible, customizable (XML-backend)
- Web-based administration
- COinS support
- Open Source

LibraryFind Architecture



WS = Web Services
RoR = Ruby on Rails

0.9 Federated Search Engine



LibraryFind – Behind the scenes

- LibraryFind is a unique metasearch tool for a couple of reasons:
 1. Integrated OpenURL resolution
 2. Both a harvester/indexer and federated search tool
 3. Metadata driven knowledge-base
 4. Implements a 2-tier caching system

LibraryFind – Behind the scenes

- OpenURL
 - LibraryFind utilizes OpenURL to accomplish its two click workflow (search => get)
 - OpenURL resolution works two ways:
 - Utilizing LF's build-in OpenURL resolver (requires coverage information to be managed within the application)
 - Utilizing an externally supported OpenURL resolver (coverage information is managed remotely)

LibraryFind – Behind the scenes

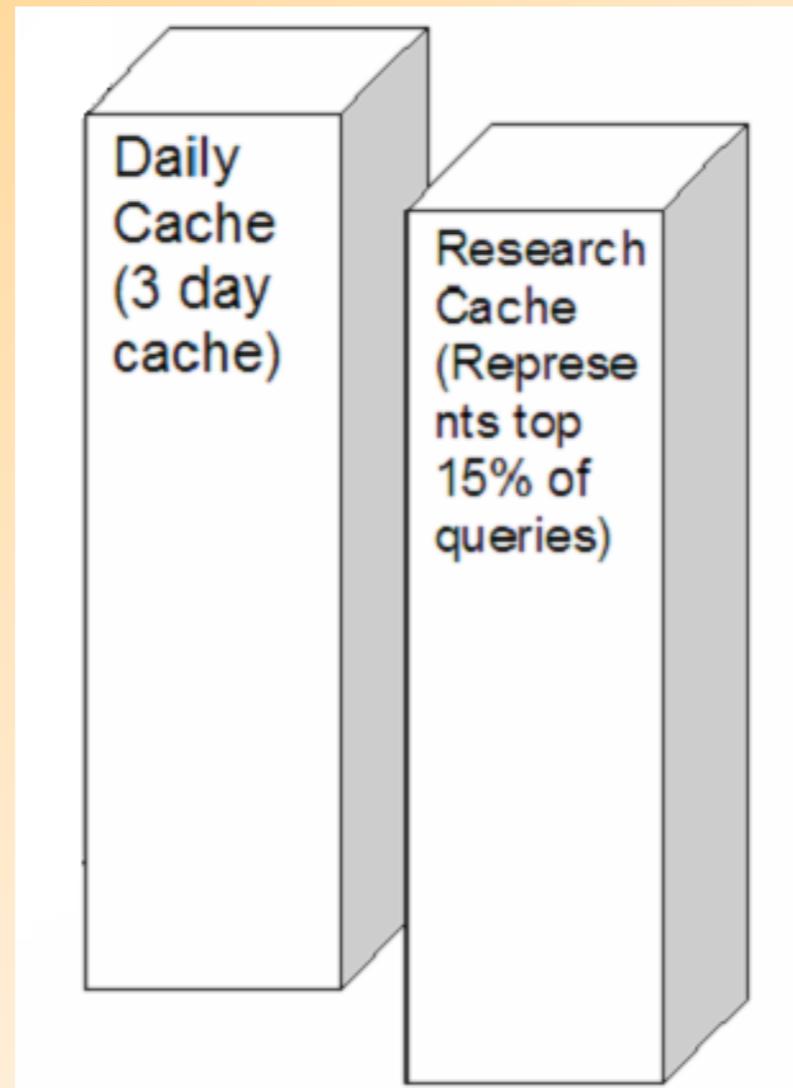
- Harvester/Indexer
 - LibraryFind has the ability to harvest
 - OAI & MARC repositories
 - incremental harvests

LibraryFind – Behind the scenes

- Federated Search tool
- Utilizes a metadata-based knowledge-base system
- Allows for the use of abstract connection classes rather than hardcoded connectors
- Makes adding new resources and sharing the knowledge-base with other institutions possible

LibraryFind – Behind the scenes

- Caching System Infrastructure



LF Technologies

- Ruby on Rails
- MySQL
- Lucene (Ferret)
- web services (REST, SOAP/WSDL)

Protocols

- Z39.50 / SRU / SRW
- OAI-PMH
- OpenSearch
- SOAP / WSDL
- COinS

LibraryFind UI

- Template-based UI generation
 - Utilizes Rails model
 - views/layouts templates helpers etc.
- language files (for UI I18 support)
 - (todo – support for I18 searches on all protocols)

Default Templates

- 2 default templates
 - General template (mixes articles/images)
 - Image template (for image view)

Image Template

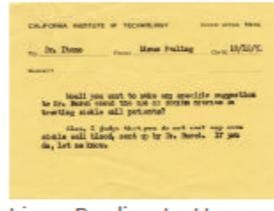
The screenshot shows a Mozilla Firefox browser window displaying the LibraryFind website. The search query is 'linus pauling' and the results are filtered by 'image'. The page shows 110 hits, with the first 12 displayed. The results are sorted by Relevance. The left sidebar contains 'Refine Results' with categories for Material Types, Subjects, and Authors. The main content area displays six image thumbnails with their corresponding titles and metadata.

LibraryFind linus pauling [Advanced Search](#) [My Saved Items](#) [Admin](#) [Log Out](#) [Help](#) [Report a Problem](#)

Advanced search results for: 'linus pauling' > 'image'

Refine Results
Material Types
[Unfilter Material Types](#)
Subjects
Pauling, Linus, 1901- (24 results)
Pauling, Linus, 1901 (10 results)
Certificates (7 results)
Correspondence (7 results)
Chemical models (6 results)
Chemistry (5 results)
Degrees, Academic (5 results)
Pauling, Linus, 1901- -- Correspondence (5 results)
Sickle cell anemia (5 results)
Pauling, Ava Helen (4 results)
[\[More Subjects...\]](#)
Authors
Pauling, Linus, 1901- Linus Pauling (30 results)
Pauling, Linus, 1901- (14 results)

Results 1 - 12 of 110 hits Sort by: Relevance

| | | |
|--|--|--|
|  |  |  |
| Linus Pauling reflecting on Mirsky and DNA Chemists -- Biography; Pauling, Linus, 1901 Citation Save This Item | Linus Pauling's pocket diary, "Linus Pauling Notebook, Solvay Congress, 1953 DNA -- Congresses; Proteins -- Congresses 03, 0908 Citation Save This Item | Linus Pauling's correspondence to Francis Crick and his reply, Sept. 1952 Chemical bonds 03, 0909 Citation Save This Item |
|  |  |  |
| Linus Pauling's correspondence to Max Delbruck, April 20, 1953 Pauling, Linus, 1901- -- Correspondence | Linus Pauling's correspondence to Jerry Donohue, Dec. 23, 1952 Chemical bonds; Chemical structure; Pauling, Linus, 1901- -- | Linus Pauling to Harvey Itano interoffice memo Sickle cell anemia FEB 01, 2005 |

Done zotero

Mixed Template

The screenshot shows a Mozilla Firefox browser window displaying the LibraryFind search results for the query "linus pauling". The browser's address bar shows the URL: http://apollo.library.oregonstate.edu:3001/record/finish_search?filter=&mode=advanced&query%5Bmax%5D=25&query%5Bstart%5D=0&que. The search results are displayed in a table format with a left-hand navigation pane.

LibraryFind [Advanced Search](#) [My Saved Items](#) [Admin](#) [Log Out](#) [Help](#) [Report a Problem](#)

Advanced search results for: "linus pauling"

Refine Results

- Material Types**
 - Articles (57 results)
 - Books (25 results)
 - Images (104 results)
- Subjects**
 - Pauling, Linus, 1901- (24 results)
 - Pauling, Linus, 1901 (10 results)
 - Certificates (7 results)
 - Chemistry (7 results)
 - Correspondence (7 results)
 - Chemical models (6 results)
 - Pauling, Linus, 1901- -- Correspondence (5 results)
 - Degrees, Academic (5 results)
 - Sickle cell anemia (5 results)
 - Pauling, Linus, 1901-1994 (4 results)
 - [\[More Subjects...\]](#)
- Authors**
 - Pauling, Linus, 1901- Linus Pauling (30 results)

Results 1 - 10 of 2046 hits **Sort by:** Relevance

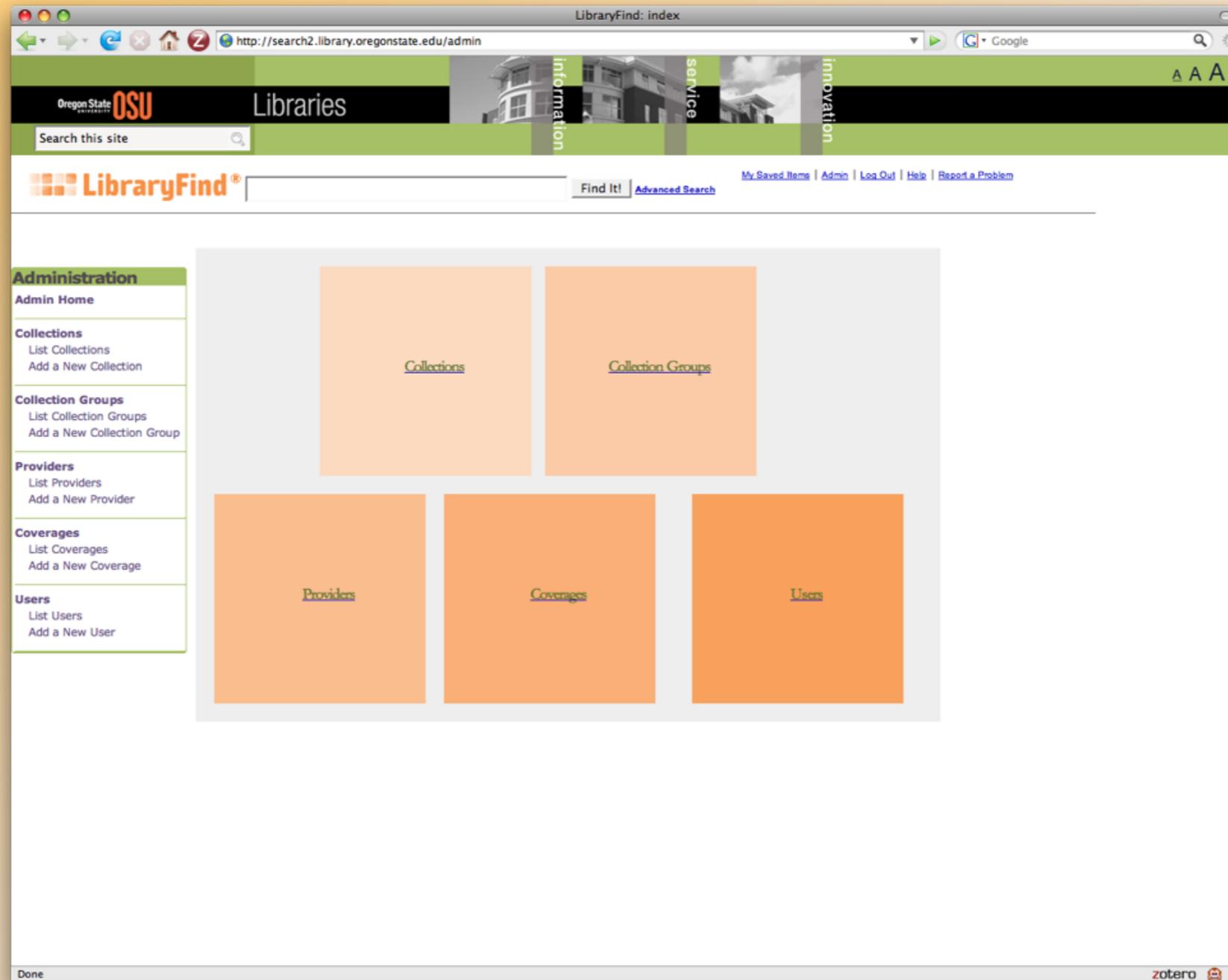
[Image] [Linus Pauling to Millikan](#)
Pauling, Linus, 1901-; Linus Pauling | Pauling, Linus, 1901-; Correspondence; Hemoglobinopathy; Hemoglobin -- Structure
JAN 31, 2005 [Linus Pauling to Millikan](#)
[Citation](#) [Save This Item](#)

[Book] [Linus Pauling on science and peace; the Nobel peace prize lecture. With an](#)
Call Number: UF767 .P3
Pauling | Nuclear weapons Testing.; Peace
1964 [Center for the Study of Democratic Institutions](#)
[Citation](#) [Save This Item](#) [more from 'Oregon State University Library Catalog'](#)

[Book] [Introduction to quantum mechanics, with applications to chemistry, by Linus](#)
Call Number: QC174.12 .P2
Pauling | Quantum theory.; Wave mechanics
1935 [McGraw-Hill book company](#)
[Citation](#) [Save This Item](#) [more from 'Oregon State University Library Catalog'](#)

Transferring data from digitalcollections.library.oregonstate.edu...

Admin UI



Collections

Administration

Admin Home

Collections

List Collections
Add a New Collection

Collection Groups

List Collection Groups
Add a New Collection Group

Providers

List Providers
Add a New Provider

Coverages

List Coverages
Add a New Coverage

Users

List Users
Add a New User

| Alt name | Name | Record schema | | | |
|--|----------------|---------------|----------------------|-------------------------|---------------------------------|
| 100 years of Oregon State Baseball | baseball | oai_dc | Edit | Destroy | Test Connection |
| 1964 Corvallis Flood | corflood64 | oai_dc | Edit | Destroy | Test Connection |
| AgeLine | aarp | MARC21 | Edit | Destroy | Test Connection |
| Aquatic Sciences & Fisheries | aquclust-set-c | SUTRS | Edit | Destroy | Test Connection |
| Abstracts | | | | | |
| Archives | archives | oai_dc | Edit | Destroy | Test Connection |
| Art Index | ARTIN | MARC21 | Edit | Destroy | Test Connection |
| BeachBooks | beachbooks | MARC21 | Edit | Destroy | Test Connection |
| Bioresource Research | hdl_1957_456 | oai_dc | Edit | Destroy | Test Connection |
| BIOSIS Preview <1990-2003> | b3ol | MARC21 | Edit | Destroy | Test Connection |
| Braceros in Oregon Photograph Collection | bracero | oai_dc | Edit | Destroy | Test Connection |
| Cooperative Institutional Research Program Reports | hdl_1957_957 | oai_dc | Edit | Destroy | Test Connection |
| Course Materials (BEE) | hdl_1957_497 | oai_dc | Edit | Destroy | Test Connection |
| DNA | dna | oai_dc | Edit | Destroy | Test Connection |
| EBSCOHost Academic Search Premier | aph | Marc21 | Edit | Destroy | Test Connection |
| EBSCOHost AGRICOLA | agr | Marc21 | Edit | Destroy | Test Connection |
| EBSCOHost American Humanities Index | hhh | Marc21 | Edit | Destroy | Test Connection |
| EBSCOHost Business Source Premier | buh | Marc21 | Edit | Destroy | Test Connection |
| EBSCOHost CINAHL | cin20 | Marc21 | Edit | Destroy | Test Connection |
| EBSCOHost Clinical Pharmacology | czh | Marc21 | Edit | Destroy | Test Connection |
| EBSCOHost Communication & Mass Media Complete | ufh | Marc21 | Edit | Destroy | Test Connection |
| Next page | | | | | |

Search this site



Find It!

[Advanced Search](#)
[My Saved Items](#) | [Admin](#) | [Log Out](#) | [Help](#)

Collection Group

Full name: Education**Name:** Education**Description:**
[Edit](#)

Collections in this Group

[EBSCOHost AGRICOLA](#)
[EBSCOHost Academic Search Premier](#)
[EBSCOHost Business Source Premier](#)
[EBSCOHost ERIC](#)
[Education FullTEXT](#)
[Linguistic & Language Behavior Abstracts](#)
[PsycINFO <1872-2004>](#)
[Social Services Abstracts](#)
[Sociological Abstracts](#)

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LibraryFind: edit - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://apollo.library.oregonstate.edu:3001/admin/collection/edit/123

Firefox Help Firefox Support Plug-in FAQ http://libfind-current... LibraryFind: search Harry Potter and the ...

Edit Collection

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List Collection Groups

Add a New Collection Group

Providers

List Providers

Add a New Provider

Coverages

List Coverages

Add a New Coverage

Users

List Users

Add a New User

| | | | |
|--|---|--|--|
| Name: | aph | help for collection name here | e.g. example collection name here |
| Alternate Name: | EBSCOHost Academic Search Premier | help for collection alt name here | e.g. example collection alt name here |
| Connection Type: | <input checked="" type="radio"/> Z39.50 <input type="radio"/> OAI-PMH <input type="radio"/> Open Search | help for collection connection type | e.g. for collection connection type |
| <input type="checkbox"/> Advanced Keyword Searching | | | |
| Host: | 204.179.122.51:210/aph | help for collection host here | e.g. example collection host here |
| User: | | help for collection user here | e.g. example collection user here |
| Password: | | help for collection password here | e.g. example collection password here |
| Record Schema: | Marc21 | help for collection record_schema here | e.g. example collection record_schema here |
| Definition: | doi=028a;ati=245a;ti=773t;au=100a;au=110a;au=700a;au=710a;ass_ | help for collection Definition here | e.g. example collection Definition here |
| URL: | | | |

Done zotero

Challenges

- Ruby
 - Good lack of XML support as part of the language
 - Lack of good, built in thread support
 - Installation/deployment challenges
 - Coming to grips the Ruby philosophy of making things work and then optimize (i.e., figuring out where the language still needs optimized)

Challenges

- Working with content providers
 - For OpenURL API like Serials solutions and SFX
- Article/metadata providers
 - No standard search API interfaces
 - or, the need to sign non-disclosures which may limit the ability to provide connector information as part of the project

Challenges

- Building and maintaining the connector knowledge-base
- Both for OSU and users wanting to use LibraryFind
- Building and maintaining the OpenURL server components/database
- Finding ways to work closer with groups like Serials Solutions, EbscoHost, SFX, etc.