

The Islandora Preservation Framework

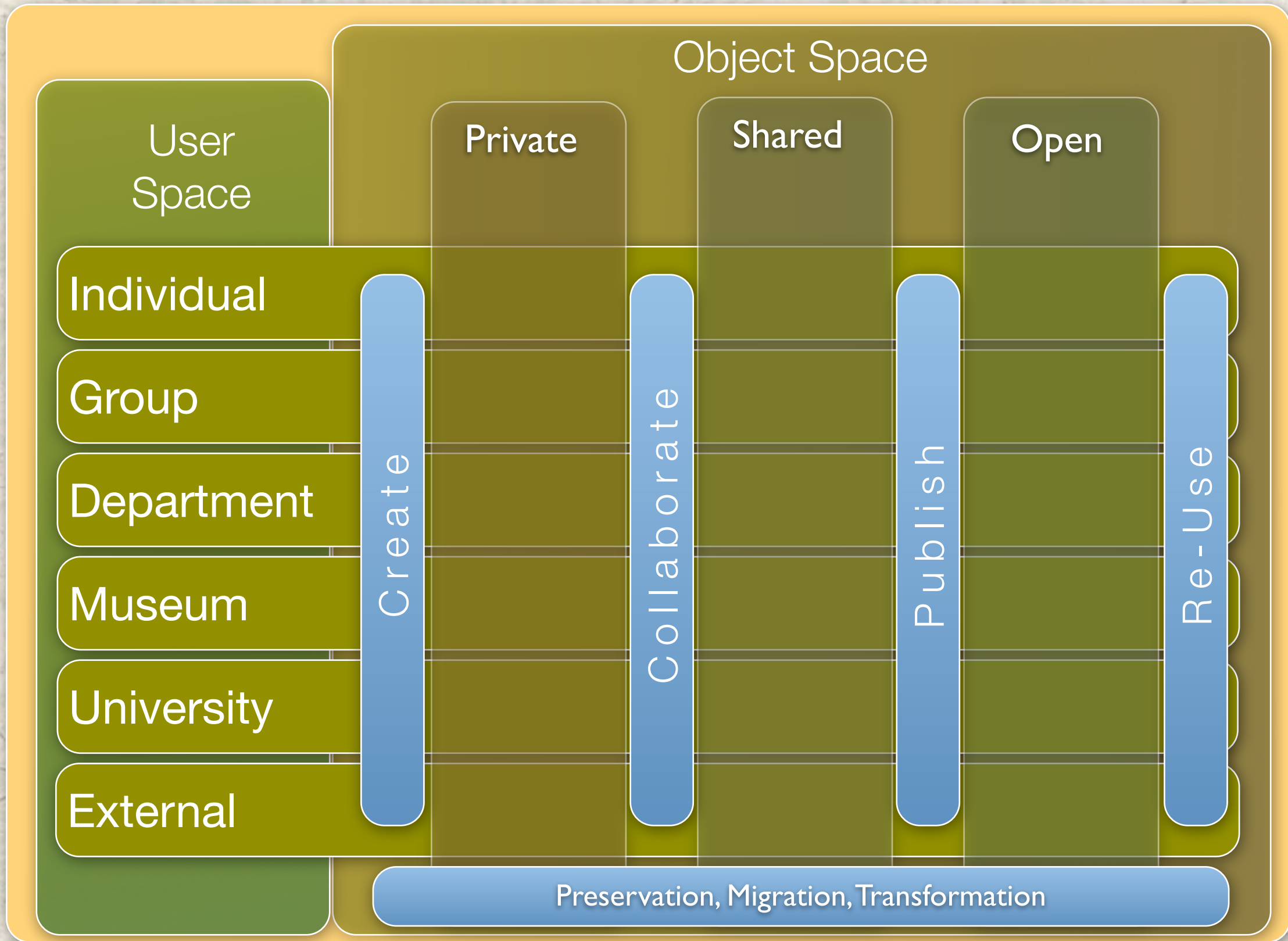
Mark Leggott, University of PEI/DiscoveryGarden
NDSA, November 27, 2012

Project Foundations

- Developed at University of PEI (2008)
- UPEI has FT staff and project staff (AIF)
- DiscoveryGarden is commercial services/
support company - sustainability
 - 28+ staff at DGI, 10 at UPEI
- Both teams maintain code

Information Life Cycle



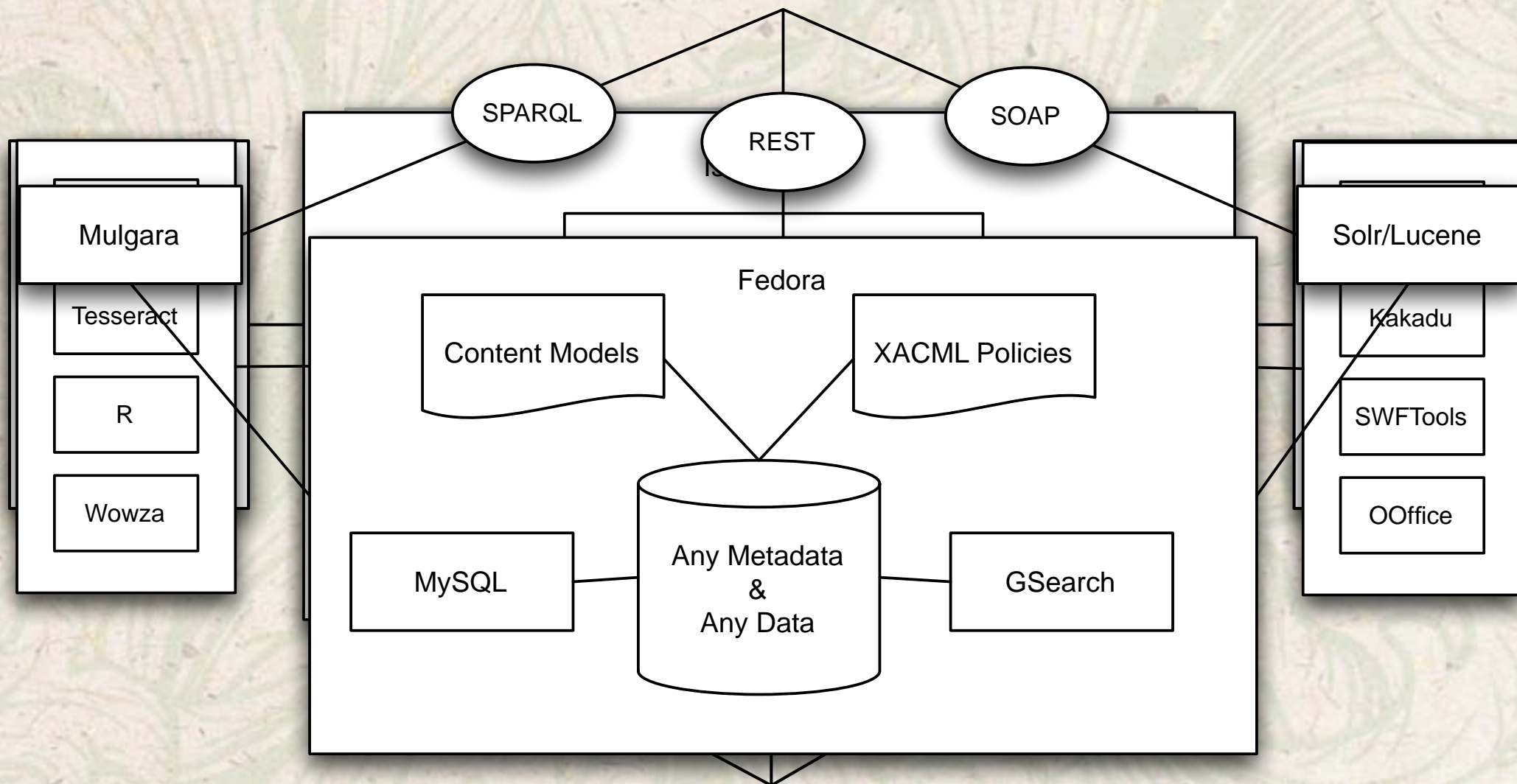


Islandora 101

- Drupal+Fedora+Other OS = framework
- Flexible UI on top of Fedora + other apps
- Support for 180+ languages via Drupal
- Desire to provide stronger preservation features and services as well as rich UI
- VM/code, documentation, lists, Camps

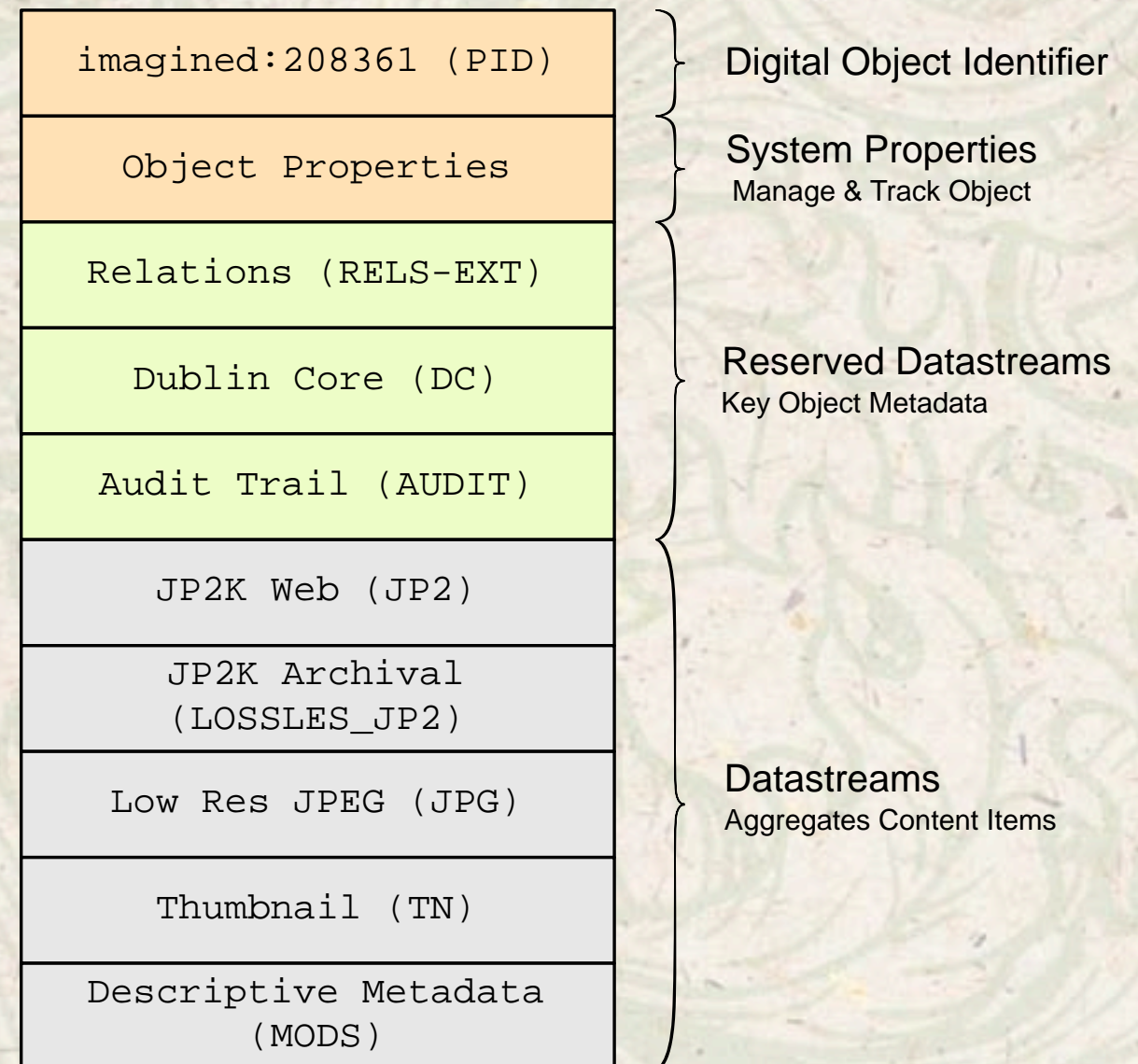
Key Components

- Core modules (Tuque, Solr, etc.)
- Solution Packs - add functionality
 - Image, Large Image, PDF, Audio, Video, Book/Paged Image Document
 - Newspapers, Digital Humanities, IR, chem
- DuraCloud integration



Object Model - IslandImagined/Large Image

- Fedora Object Model
- Flexibility supports any data model
- Atomistic and compound objects
- Support for RDF allows integration of specific ontologies



- Workflow engine
 - Also referred to as Editorial Workflow
 - Provides “human” nodes in the services framework
 - Generation of action log via Fedora audit
 - Integration with XACML policy framework in Islandora

Home

My Islandora work

Work In Progress

Assigned To Me

Unpublished Objects

Workflow

Perform work on objects you have access to

	Title	Collection	Status	Object Created	Last Workflow Movement	Notes	Assignee
<input type="checkbox"/>	chupa chupa!	islandora:925	created	11/01/2012 - 10:44	11/01/2012 - 10:44	Create Note	

Submit

Approve

Publish

Reject...

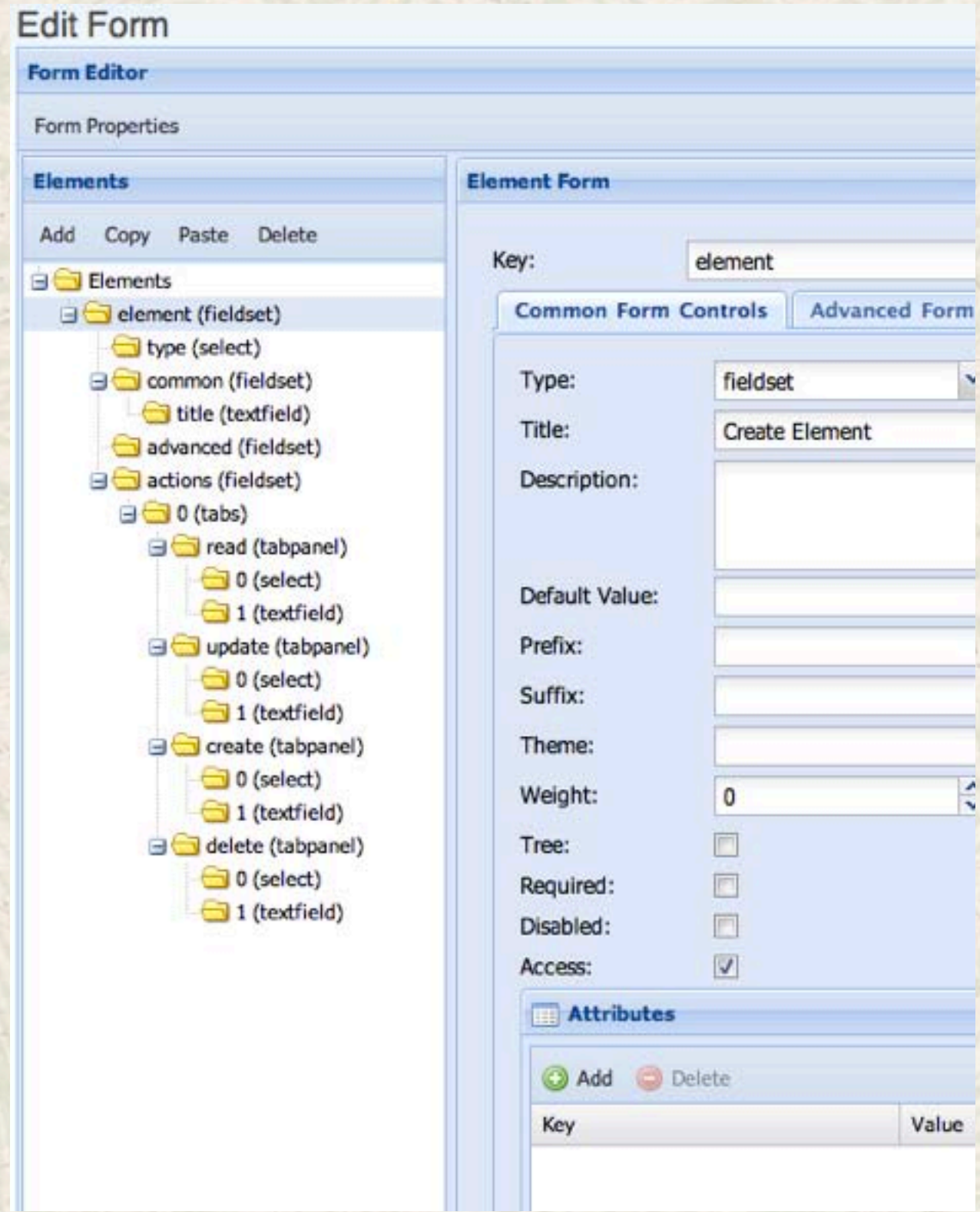
Claim

Assign

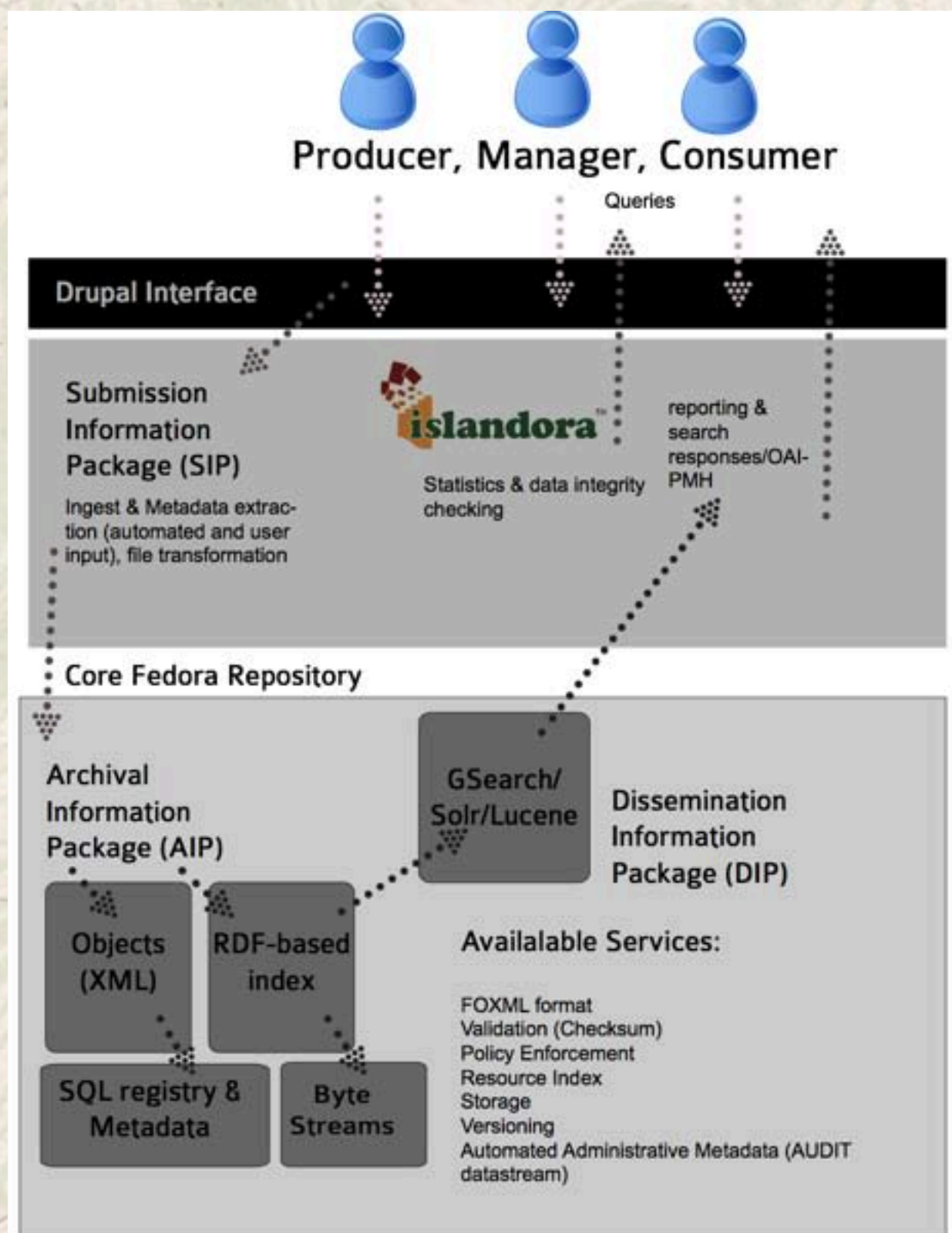
Delete...

- Admin: wolfgang
- Admin: Batman
- Admin: Garth test user
- Admin: ks_admin
- Admin: ks_editor
- Admin: ks_manager
- Admin: ks_submit
- Admin: dw_admin

- XML Form Builder
- Create a rich form for any XML schema
- Multiple forms for specific schemas
- Control access via security policies



The screenshot shows the 'Edit Form' interface. On the left, a tree view under 'Elements' shows a hierarchy: 'element (fieldset)' containing 'type (select)', 'common (fieldset)' (with 'title (textfield)' and 'advanced (fieldset)'), 'actions (fieldset)' (with '0 (tabs)' containing 'read (tabpanel)', 'update (tabpanel)', 'create (tabpanel)', and 'delete (tabpanel)', each with '0 (select)' and '1 (textfield)'), and 'delete (tabpanel)' (with '0 (select)' and '1 (textfield)'). On the right, the 'Element Form' configuration panel for the selected 'element' fieldset is shown. It includes fields for 'Key' (element), 'Type' (fieldset), 'Title' (Create Element), 'Description', 'Default Value', 'Prefix', 'Suffix', 'Theme', 'Weight' (0), and checkboxes for 'Tree', 'Required', 'Disabled', and 'Access' (checked). An 'Attributes' section at the bottom has 'Add' and 'Delete' buttons and a table with 'Key' and 'Value' columns.



Preservation Services

- Fedora provides robust service framework
- TechDS+DescDS+RightsDS+AuditDSs transformed to a Dynamic PREMIS record
- Adding DuraCloud support via “Vault”
- Adding Archivemática integration as an optional preservation component

Islandora Vault [codesprint-centos.islandora.ca](#)

[Home](#) » [Administration](#) » [Islandora](#)

Duracloud space *

The Duracloud space that where you will copy items to/from

CloudSync Url *

The URL to use when connecting to Duracloud spaces

Cloudsync User *

The username to use when connecting to Duracloud

Cloudsync password *

Password *

Password strength:

Confirm password *

Duracloud store url

The url for the duracloud store. This url will be provided by your cloudsync administrator.

[Save configuration](#)



Run Cloudsync Task

Create Cloudsync Tasks

Delete Cloudsync Tasks

Cloudsync Reports

Duracloud Reports

Cloudsync Task for islandora:testCollectionPP

This task will run in the background. When this task is completed it's state will be reported as idle.

Current state is *Idle*

Copy from Fedora to Duracloud

ADVANCED

Run the restore task


This will copy items from Duracloud to Fedora, Make sure you want to restore Fedora objects before you run this task. This task will run in the background.

Current state is *Idle*

Copy from Duracloud to Fedora

Find content

My account Log out

belgium 

codesprint-centos.islandora.ca

VIEW

MANAGE

Home » Repository

Datastreams

Properties

Vault

+ Add a datastream

belgium - islandora:576

VAULT	ID	LABEL	TYPE	MIME TYPE	SIZE	OPERATIONS
	DC	DC Record	Inline XML	text/xml	761 B	download edit
Match	MEDIUM_SIZE	MEDIUM_SIZE	Managed	image/gif	75.33 KB	download edit delete
Match	OBJ	Belgium.gif	Managed	image/gif	2.52 KB	download edit delete
	RELS-EXT	Fedora Object to Object Relationship Metadata.	Inline XML	text/xml	558 B	download delete
Mismatch	TN	TN	Managed	image/gif	16.87 KB	download delete
Match	CLOUDSYNC	CLOUDSYNC	Managed	text/plain	1.98 KB	download delete

• a test collection

Community

- Over 100 Islandora sites worldwide in production or development
- 350+ people on Google Groups List
- Some projects starting to contribute back
- Libraries bulk of use now, but includes museums, archives, private companies

- Canada, US, Europe, Asia, South America
- 60% higher education
- 20% museums/archives
- 10% government
- 10% private
- Small shops to very large



Powered by [Fedora](#), [Islandora](#) and [DiscoveryGarden](#)

Releases

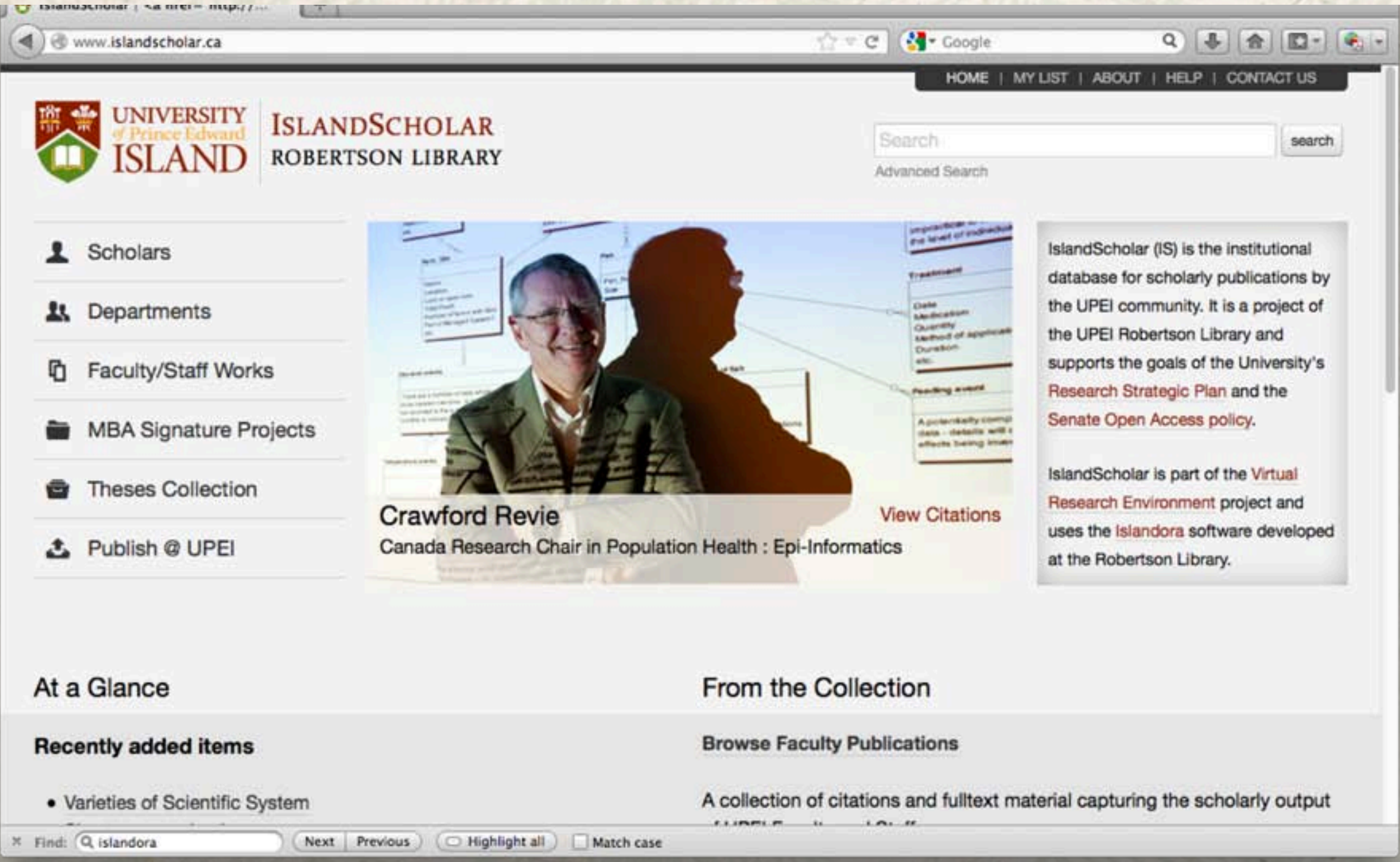
- General goal is to release 4 times per year, or now 7-8 with 2 versions
- “Islandora 6” is in release 3 for 2012
- “Islandora 7” is in release 1 for 2012
- Goal is to release bug fixes for 6, focus on new developments in 7

Trying Islandora

- Try production sites (list on last slide)
- Play in sandbox.islandora.ca (cleaned daily)
- Download VM from islandora.ca
- Install code referring to documentation
- iCamps: PEI, Europe, Australia, US
- Documentation, videos, hudson.islandora.ca

Use Cases/Examples


Institutional Repository




The screenshot shows a web browser window displaying the IslandScholar website. The browser's address bar shows 'www.islandscholar.ca'. The website header includes the University of Prince Edward Island logo and the text 'ISLANDSCHOLAR ROBERTSON LIBRARY'. A navigation menu at the top right contains links for 'HOME', 'MY LIST', 'ABOUT', 'HELP', and 'CONTACT US'. A search bar is located on the right side of the header. On the left side, there is a vertical menu with icons and labels for 'Scholars', 'Departments', 'Faculty/Staff Works', 'MBA Signature Projects', 'Theses Collection', and 'Publish @ UPEI'. The main content area features a featured article for 'Crawford Revie', Canada Research Chair in Population Health : Epi-Informatics, with a 'View Citations' link. To the right of this article is a text box explaining that IslandScholar is an institutional database for scholarly publications by the UPEI community, supporting the university's Research Strategic Plan and Senate Open Access policy. Below the main content, there are two columns: 'At a Glance' with a 'Recently added items' section listing 'Varieties of Scientific System', and 'From the Collection' with a 'Browse Faculty Publications' section. At the bottom of the browser window, a search bar contains the text 'islandora' and several search options like 'Next', 'Previous', 'Highlight all', and 'Match case'.

www.islandscholar.ca/islandora/solr/search/mods.username%3A%22crevie%22?sort=mods_date_issued_dt_desc

HOME | MY LIST | ABOUT | HELP | CONTACT US

 **ISLANDSCHOLAR**
ROBERTSON LIBRARY

Search search
Advanced Search

Your Search: Faculty Identifier:"crevie" 
Limited to: no limits selected

10 | 25 | **50** | 100 1 - 25 of 44 1 2 next >

Relevance


Title

Date

Limit Results

Date

1962 - 2013
(years)

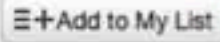



Filter

Specify date range: **Show**

Type

Lepeophtheirus salmonis and Caligus rogercresseyi
Burka, J. F., Fast, M. D., & Revie, C. W. (2012). *Lepeophtheirus salmonis* and *Caligus rogercresseyi*. In P. T. K. Woo & K. Buchmann (Eds.), *Fish parasites* (pp. 350–370). Wallingford, Oxfordshire; Cambridge, MA: CABI.
This chapter covers the host range and specificity, morphology, life cycle, physiopathology, parasite-host interactions, role as disease vector and control and prevention (biological control, environmental approach, drug therapy, vaccination and insecticides) of *Lepeophtheirus salmonis* and *Caligus r...*

Sea lice on wild juvenile Pacific salmon and farmed Atlantic salmon in the northernmost salmon farming region of British Columbia
Saksida, S. M., Greba, L., Morrison, D., & Revie, C. W. (2011). Sea lice on wild juvenile Pacific salmon and farmed Atlantic salmon in the northernmost salmon farming region of British Columbia. *Sea Lice 2010, Proceedings of the 8th International Sea Lice Conference, Victoria, BC, Canada, May 9-12, 2010*, 320(3), 193–198. doi:10.1016/j.aquaculture.2011.07.018

Find: Next Previous Highlight all Match case

www.islandscholar.ca/bibliography

Scholars

Departments

Faculty/Staff Works

MBA Signature Projects

Theses Collection

Publish @ UPEI

Citations

Step 1: Select your citations

<input type="checkbox"/> Title	Author(s)
<input checked="" type="checkbox"/> <i>Lepeophtheirus salmonis</i> and <i>Caligus rogercresseyi</i>	
<input checked="" type="checkbox"/> Sea lice on wild juvenile Pacific salmon and farmed Atlantic salmon in the northernmost salmon farming region of British Columbia	Saksida, Greba, Morrison, Revie
<input checked="" type="checkbox"/> Use of a mathematical model to describe the epidemiology of <i>Lepeophtheirus salmonis</i> on farmed Atlantic salmon <i>Salmo salar</i> in the Hardangerfjord, Norway	Gettinby, Robbins, Lees, Heuch, Finstad, Malkenes, Revie
<input checked="" type="checkbox"/> Counting sea lice on Atlantic salmon farms — Empirical and theoretical observations	Heuch, Gettinby, Revie

Remove Selected

Step 2: Export the formatted citations

Format: Style:

HTML APA 5th Edition Export Selected

Find: islandora Next Previous Highlight all Match case

Digital Collections

ISLAND IMAGINED

[Browse](#)[Interactive](#)[Learn more](#)[Français](#)

Collection

Island Imagined

[Full-size](#)[Description](#)

grettable that fish and chip packers find our locally packed frozen cod fillets not as suitable to their demands as fish which they bring here from British Columbia. If the moisture content of our local pack could be sufficiently reduced then an additional market might be available for the above mentioned product.

The lobster market is in a strong position at the present time as stocks of both frozen and fresh pack has been practically all sold. The lobster industry in some areas is experiencing extreme difficulties due to small catches. It is felt that trap limits and license control might work toward improving conditions for lobster fishermen. It has been reported that draggers working in the lobster fishing areas have incurred damage to lobster trap lines and that it is necessary to restrict dragger fishing during the lobster fishing season.

The crab fishing industry appears to hold considerable promise for fishermen in certain areas of the Island and may work in well for off-season employment for lobster fishermen. Markets for crab meat are improving and reduction in crab population should work toward improvement of the lobster situation.

This Committee recommends that the Provincial Government extend the present mortgage time limits in 60' and 65' wooden draggers owned by Prince Edward Island fishermen and presently in operation to a period not less than 15 years.

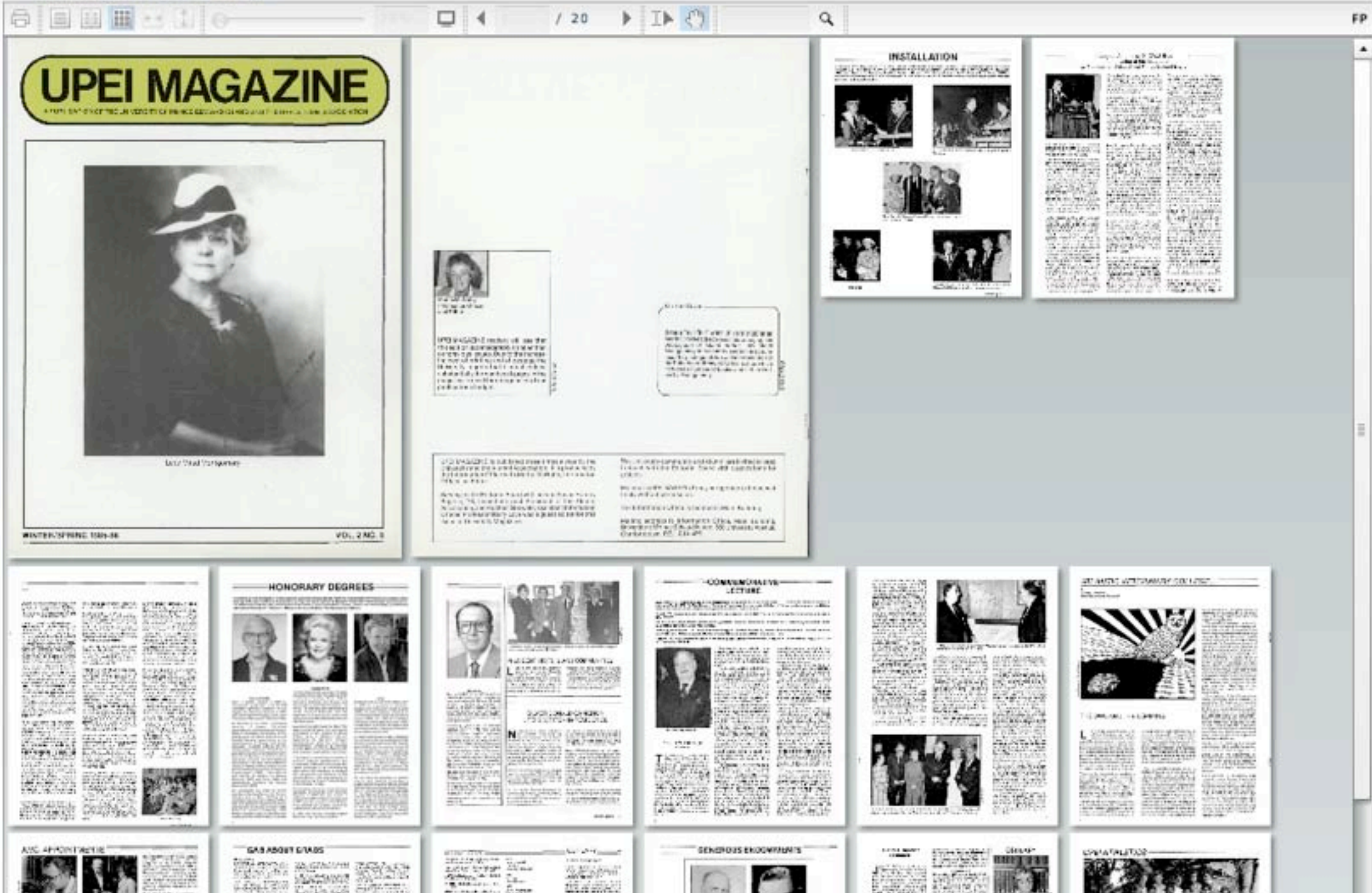
INDUSTRY

The vegetable processing industry in this province has made considerable progress during the past ten years and is distributing new income to farmers and the labor force of our province.

Some of our processors are experiencing financial difficulties
actory financial position,
ent time for this segment
e facilities as it is neces-
ozen products with which
ear.

be sufficiently reduced then an additional market might be available for the above mentioned product The lobster market is in a strong position at the present time as stocks of both frozen and fresh pack has

Page 119



The screenshot displays a digital magazine viewer interface. At the top, the title "UPEI MAGAZINE" is prominently displayed in a yellow banner. Below the title is a large black and white portrait of a woman wearing a hat. To the right of the main page, there are several smaller article thumbnails. One of these thumbnails is titled "INSTALLATION" and features several small photographs of people. Below the main page, a grid of smaller article thumbnails is visible, including one titled "HONORARY DEGREES" which shows three people, and another titled "CONMEMORATIVE LECTURE" which shows a man speaking. The interface includes standard navigation controls like back, forward, and search buttons, and a page number indicator showing "/ 20".



AULA DE REESTRENOS

05/10/2011

Este año Francisco Guerrero Marín (1951-1997) hubiera celebrado su 60º aniversario de no haber fallecido de forma tan prematura. Este "Aula de (Re)estrenos" quiere rendir un homenaje a quien ha sido una de las principales figuras de la composición española de la segunda mitad del siglo XX. El concierto incluye también obras de cinco compositores de la siguiente generación que mantuvieron un vínculo muy estrecho con Guerrero: César Camarero, Alberto Posadas, David del Puerto, Jesús Rueda y Jesús Torres.

 [Program PDF Available](#)

Chorro de luz hacia el corazón de una galaxia, para dúo de violín y viola
David Quiggle: (viola), Mariana Todorova: (violín)

lowplayer

00:00 00:00

1. [Chorro de luz hacia el corazón de una galaxia, para dúo de violín y viola](#)

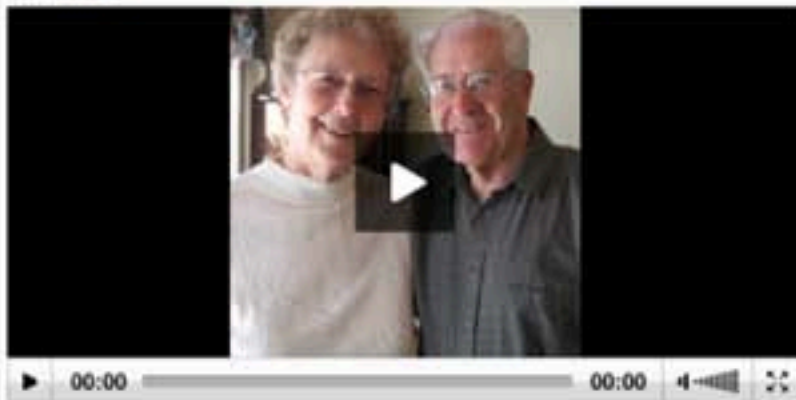
Voice archive

No items

Works

Piece	Composer	Score	Biblio
Chorro de luz hacia el corazón de una galaxia, para dúo de violín y viola	César Camarero	N/A	N/A

Audio



Download MP3

Recording Details: Lloyd Gates T2 [Tape Two]:

***This interview is

SIDE A only,

SIDE B is blank.

SIDE A 00:00:00 -- 00:06:11 Discussion about his service in WWII continues on from Tape One; medals, WWII, air force, RCAF, aircraftman, American soldiers, Holland, Dutch.

SIDE A 00:06:11 -- 00:08:03 Discussion about trips into Charlottetown and learning to drive; Charlottetown, driving, Market Square, movies.

SIDE A 00:08:03 -- 00:12:05 Discussion about serving in France during WWII, with mention of his squadron; WWII, commandos, soldiers, RCAF, France, air attacks, pilots, Charles Trainor.

Overview:

Interviewee(s):
Gates, Lloyd

Playing Time:
00:32:06

Interview Date(s):
2009-01-00

Interview Summary:

This is an interview with Lloyd Gates of West Royalty, Charlottetown, PEI. In this interview Lloyd talks about his service in WWII with the RCAF, driving, serving in France, Holland, coming home after the war, changes in West Royalty, hauling ice, the end of the mill, home remedies, radio, the Upton Airfield, Christmas, and various other topics.

Place(s) Discussed:

France; Holland; Charlottetown, PE; West Royalty, PE; Bell's Hill, PE

Time(s) Discussed:

WWII, 1967, 1946

Rights Information:

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Moving Image Research Collections

Digital Video Repository

Collections

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- Fredrick C. Adams
- Always Coming Home
- C. E. Feltner
- Chinese film
- Fox Movietone News
- Harry and William Birch
- Heyward Gibbes
- Anna and Archer Huntington
- Lever-Karst family
- Local TV news
- MIRC ACE
- Scott Nixon
- Phelps sisters
- USC Athletic Dept.
- Roman Vishniac
- Lulu Belle and Scotty

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Search

Search



Field: Search terms:

Sort By: Order:

Featured Item



UFO - Unidentified Filmed Object

Do you recognize this place? Please help us identify this setting or subject, if you can, for this month's mystery UFO. Visit the MIRC blog to learn more: <http://library.sc.edu/blogs/mirc/>

[Browse the Collection](#) | [View All Featured Items](#)

1 of 17

Research Data

admin

627

- My posts
- My account
- User list
- ▶ Create content
- Create group
- ▶ Administer
- Log out

Description Item Policy Object Details

Summary 3D view Output file

Upload structures

Supported formats

Upload



Submit Redmine Issue

Subject:

Description:

CKEditor: the ID for excluding or including this element is *corporate.fedora/repository*

Title	627
Contributor	Unknown
IUPAC name	L-alanyl-L-cysteine
Synonyms	(2r)-2-[[[(2s)-2-aminopropanoyl]amino]-3-sulfanylpropanoic acid, (2r)-2-[[[(2s)-2-aminopropanoyl]amino]-3-sulfanyl-propanoic acid, (2r)-2-[[[(2s)-2-amino-1-oxopropyl]amino]-3-mercaptopropanoic acid, (2r)-2-(alanyl-amino)-3-mercapto-propionic acid
Molecular weight	192.236
Molecular formula	C ₆ H ₁₂ N ₂ O ₃ S
Canonical	

admin

- My posts
- My account
- User list
- ▶ Create content
- Create group
- ▶ Administer
- Log out

Upload structures

Supported formats

Upload

Submit Redmine Issue

Subject:

Description:

Structure search



Search Fragment Search Substructure Search

Log out

Search Results

(1 - 20 of 290)

Upload structures

Supported formats

Upload

Islandora Facet Block

Contributor

Show more

Submit Redmine Issue

Subject:

Description:

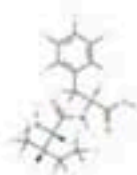
CKEditor: the ID for excluding or including this element is `corporate:islandora/solr/search/cml.fragments:0000A000.edit-redmine-issuer-description`.

Tracker: :



1.

Title	5889
Name	Aniline
Contributor	(Author)
InChI	InChI=1S/C6H7N/c7-6-4-2-1-3-5-6/h1-5H,7H2
Molecular Weight	93.1265



2.

Title	1019
Name	(2S)-2-[[[(2S,3S)-2-ammonio-3-methylpentanoyl]amino]-3-phenylpropanoate
Contributor	Richard Wincewicz (Author)
InChI	InChI=1S/C15H22N2O3/c1-3-10(2)13(16)14(18)17-12(15(19)20)9-11-7-5-4-6-8-11/h4-8,10,12-13H,3,9,16H2,1-2H3,(H,17,18)0H,19,20)/t10-,12-,13-/m0/s1
Molecular Weight	278.347

codesprint-centos.islandora.ca/islandora/object/islandora%3A572/view/annotation

Contacts Bonjour .Mac Blogsy Mark Public Calendar Read Later Calendar DGI Support iCloud Amazon UPEI Phonebook Blog It Diigolet

Repository | Islandora in Drupal 7

Dashboard Content Structure Appearance People Modules Configuration Islandora Reports Help Hello admin Log out

Add content Find content Edit shortcuts

Image Annotations

unclassified

News

Annotate

Image Annotations

unclassified

News

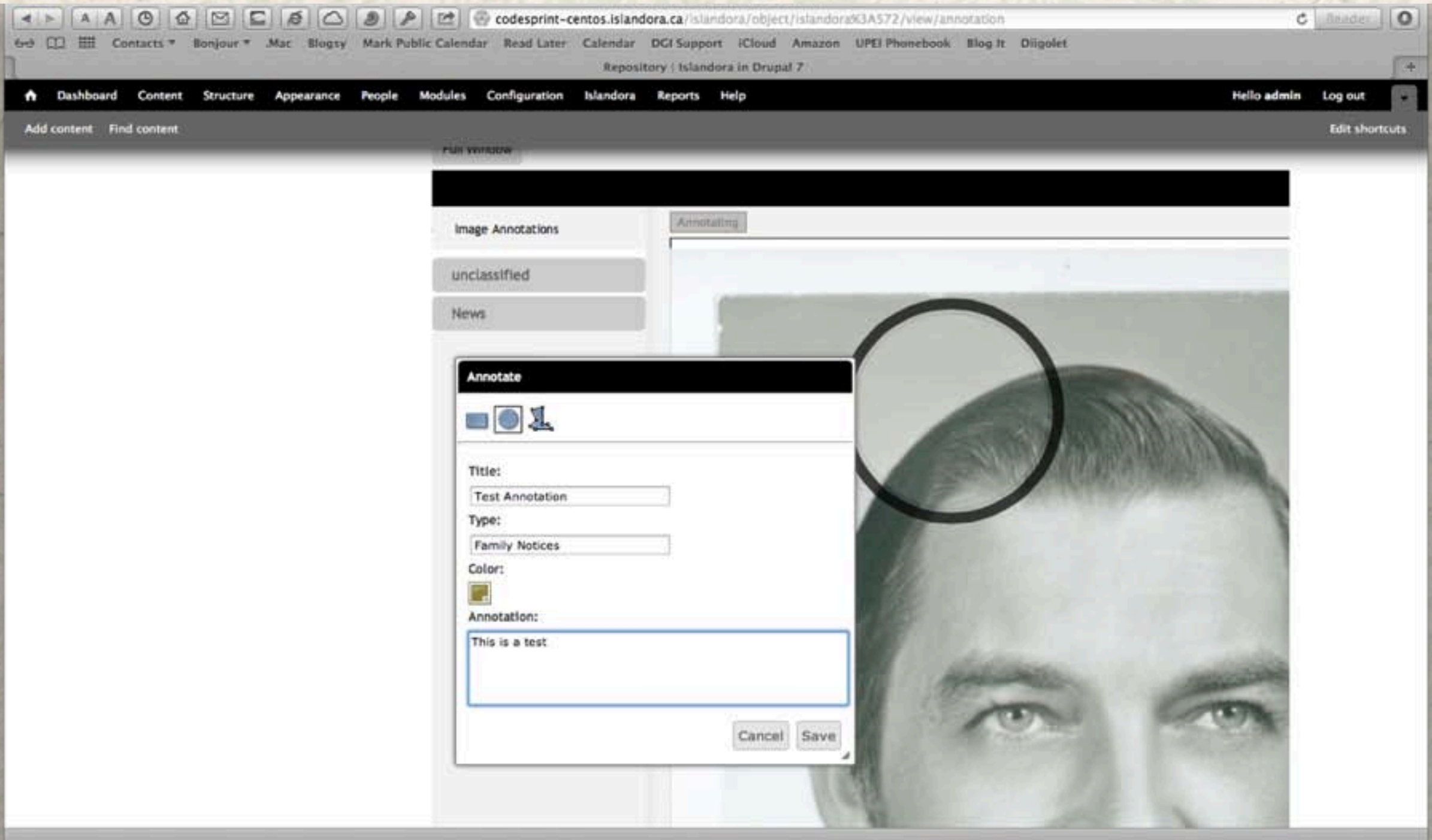
Annotate

Test Annotation

Family Notices

This is a test

Cancel Save



- Dropbox Home
- [bridge.jpg](#)
 - [classroom.jpg](#)
 - [clip-art0020.jpg](#)
 - [Dataset](#)
 - [fly.jpg](#)
 - [fry.jpg](#)
 - [Getting Started.pdf](#)
 - [Home Tester](#)
 - [keepass](#)
 - [Photos](#)
 - [Testing](#)
- top
bottom

- Development
- [Devel settings](#)
 - [Empty cache](#)
 - [Entity info](#)
 - [Execute PHP Code](#)
 - [Field info](#)
 - [Function reference](#)
 - [Hook_elements\(\)](#)
 - [Menu item](#)
 - [PHPinfo\(\)](#)

File View

- Dataset
 - Home Tester
 - Photos
 - Testing
- avitester
 - bmptester
 - doc tester
 - docx tester
 - epstester
 - giftester
 - jpg2000tester
 - jpgtester
 - pdftester
 - pngtester
 - psdtester
 - rtftester
 - tiftester
 - txttester
- Sample Album
 - bridge
 - classroom
 - clip-art0020
 - fly
 - fry
 - Getting Started

Consortia



DIGITAL REPOSITORY

COLORADO SCHOOL OF MINES

Mines Home | Site Map

Home Browse Collections Advanced Search Login

Welcome to the Mines Digital Repository

The Mines Digital Repository is a web-based searchable repository that collects, preserves, and provides permanent open access to digitized materials of historical and institutional value as well as the scholarly works of the Colorado School of Mines academic community. ([More about the Digital Repository.](#))

Please see the help section for more information about using the Digital Repository or contact a [Reference Librarian](#) if you need additional assistance.



1 2 3 4 5 6 7

Arthur Lakes Library

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[Center for Ropeway Studies](#)

COSTAR

[Tell Ertl Oil Shale Repository](#)

Student Research

[Doctoral Dissertations \(BETA\)](#)
[Master's Theses \(BETA\)](#)
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DIGITAL DU *a service of* PENROSE LIBRARY

connecting people to ideas

Home Browse Communities Advanced Search Login

Welcome to Digital DU, a service of Penrose Library

Digital DU, a service of the Penrose Library, collects, preserves, and disseminates digital assets that are of historical or significant value to the University of Denver.

The repository contains a wide variety of materials ranging in subject matter. Some of the materials in the repository were created by DU faculty, staff, and students, while others are digital assets acquired by DU to support the university's mission of research, teaching, and learning.



Featured Images



World at One View



Beck Archives

- Beck Archives Photograph Collection
- Jewish Consumptives' Relief Society Records
- Loewenstein Family Holocaust Papers

Denver History

Faculty and Student Research

- Doctoral Dissertations
- Masters Theses
- Digital Pioneers
- Mapping the Nation

University Athletics

University Images

- Contemporary DU Photographs
- DU Historical Photograph Collection
- University Art Collection

Penrose Library

Arlitsch, Kenning Digital Pioneers Oral History

Overview Viewer

Description

Title	Arlitsch, Kenning Digital Pioneers Oral History
Type of Resource	mixed material
Date Created	2012
Digital Origin	reformatted digital
Topics	Information science Digital Pioneers
People	Arlitsch, Kenning
Subject Genre	Interviews Oral history
Handle	http://hdl.handle.net/10176/codu:63659
Rights Statement	Copyright restrictions may apply. User is responsible for all copyright compliance.
Notes	Kenning Arlitsch is the Associate Dean for Administrative and IT Services at the Marriott Library at the University of Utah.

This object was added October 17, 2012. This object was last updated November 2, 2012.

Files (Total: 3)

ArlitschKenning_Lessons.pdf
ArlitschKenning_Lessons.pdf



View Download

ArlitschKenning_transcript.pdf
ArlitschKenning_transcript.pdf



View Download

Arlitsch_Edited_Full.mp4
Arlitsch_Edited_Full.mp4



Play Download

Links

- islandarchives.ca, islandscholar.ca
- digital.match.es/clamor, [/turina](http://digital.match.es/turina), [/merce](http://digital.match.es/merce)
- heritage.utoronto.ca, saskhistoryonline.ca
- mirc.sc.edu, islandvoices.ca
- www.digibess.it
- cairnrepo.org

Questions?

Mark Leggott - mleggott@upei.ca

islandora.ca
discoverygarden.com