Foundation of a Rich Repository Ecosystem

Mark Leggott

University Librarian/Project Lead - UPEI
President & CEO - DiscoveryGarden Inc.
Project started in 2008 to build local infrastructure

Now 10 FT staff (8 @ 100%, 2 @ 50%+), 10+ contractors, external partners

Shift positions with attrition to build sustainable team

Operational + Soft Money

$2.3 million grant in 2010

Other funds over $750,000 (research projects, donations, alum groups, Library operational)
Designed to support 3 “landscapes”
- Research (Data, Collaborative groups)
- Admin (Committees, Documents/Records)
- Learning (Images, SCORM)

System designed to support any DA requirement, including stewardship and collaboration
Islandora Architecture
Drupal

- Collaborative layer
- Easy branding
- New functionality & modules all the time
- Community large and Web 2/3 savvy
- System will be around for a while
Fedora

- Repository layer
  - data, metadata, workflow, AuthZ/T
- Work with any data asset/schema
- Content Model Architecture
- Semantic support
Islandora

- Glue that binds Drupal & Fedora
- Drupal module, PHP & Java apps
- JS rule engine for flexible workflows
- Drop-In support for new modules
Workflows

๏ Ability to define & integrate complex digital workflows
๏ IslandLives book transformation
๏ IslandScholar document conversion
๏ Fedora disseminators, Islandora rule engine
๏ Integration of Taverna +
Workflows
Python/JMS/Book Example
Metadata

- Currently using/creating support for 20+ schemas
- Standard + Custom
- Support for ingest, crosswalk, edit, index
- Flexible Solr module with client configuration
Solr

- Default Search
- Configurable for any metadata schema
- Admin selection of facets
- User control of filters: Add/Exclude
- Solr profiles for CMs for Search/Display/Export
- Post-filtering of field lists
CMA

- CMA is key to the Islandora architecture and roadmap
- Complete digital archive with assets & metadata
- Sharing content models makes Fedora ecosystem very compelling

Object Model - IslandImagined/Large Image

- imagined:208361 (PID)
- Object Properties
- Relations (RELS-EXT)
- Dublin Core (DC)
- Audit Trail (AUDIT)
- JP2K Web (JP2)
- JP2K Archival (LOSSLES_JP2)
- Low Res JPEG (JPG)
- Thumbnail (TN)
- Descriptive Metadata (MODS)

Digital Object Identifier
- System Properties
  - Manage & Track Object
- Reserved Datastreams
  - Key Object Metadata
- Datastreams
  - Aggregates Content Items
CModeler

- Easily manage and edit CMs, ISLANDORACM COLLECTION_POLICY datastreams
- Create, clone, rollback CMs
- Manage Solr search fields
Dev

- Jira for reporting/tracking
- Github for code repo, separate dirs for custom work, merged to core
- Google General/Committers Groups
- Buildbot coming
The Islandora module allows Drupal users to view and manage digital objects stored in Fedora.

URL: https://fedora-commons.org/confluence/display/ISLANDORA/Islandora

Lead: Paul Pound

Key: ISLANDORA

**Issues: Due**

- **ISLANDORA-77**
  - Due Date: 15/Sep/10
  - Perform regular code audits to ensure adherence to Drupal coding standards

- **ISLANDORA-145**
  - Due Date: 14/Jan/11
  - Search Term Highlighting

- **ISLANDORA-146**
  - Due Date: 14/Jan/11
  - Sylr Results Sorting

**Issues: 30 Day Summary**

- February 04 - 6:00 PM
  - Nigel Banks created ISLANDORA-185 (Error displayed when enabling Islandora Modules.)

- February 04 - 5:00 PM
  - Nigel Banks created ISLANDORA-184 (Warning message appears when ingesting an object.)

- February 04 - 4:00 PM
  - Alan Stanley updated the Description of ISLANDORA-180 (Remove sylr uri field from Fedora Admin)

- February 04 - 3:00 PM
  - Alan Stanley resolved ISLANDORA-179 (Enhance admin page in our sylr module to test uri validity and repopulate the requesthandler dropdown without having to save form first.)
  - Alan Stanley updated 2 fields of ISLANDORA-179 (Enhance admin page in our sylr module to test uri validity and repopulate the requesthandler dropdown without having to save form first.)
  - Alan Stanley updated 2 fields of ISLANDORA-179 (Enhance admin page in our sylr module to test uri validity and repopulate the requesthandler dropdown without having to save form first.)

**Versions: Due**

- 2011-1
- 2011-2
- 2011-3

**Release Date:** 17/Feb/11
Release Process

- Quarterly Releases
- RC followed by 2-3 week review, followed by release
- New Solution Packs with each new release
- Sample data with each new release
2011 Roadmap

- Solution Packs with each release (1 = Newspapers)
- TEI Editor, Image Annotation, Drupal Node Sync
- Advanced Solr module (customization, CSV export)
- CitationStyles support, Multiple input formats
- Management Module, edit Objects/DSs/XACML
- Migration Modules - ContentDM, DSpace, Hyperion
- Stronger Internationalization, DuraCloud Integration
Users

- Colorado Alliance, UNT, U of Manitoba, Georgia Institute of Technology, UNB, Carleton, U of Guelph, UCD, Oak Ridge Labs, Prince George PL, Prince Rupert PL, Northern Illinois U, Shang Shung Institute, Smithsonian, USHMM, JWA, DuraSpace
DGI

- UPEI business spin-off, will provide all services for Islandora
  - Implementation/Install
  - Customization
  - Production/Digitization
  - Hosting/Cloud
  - Training/Consulting
Lib2O

- HW/SW Appliance
- Dell Server, expandable
- Islandora & Evergreen pre-installed, Wizard setup
- 1-year Support/PS for both
- Shipping late Summer 2011
- Estimated $20K+
Arrow/Oracle

- SOAR Appliance
- Bundled with Islandora
- Optimized version of Islandora for Sun
- Support from DGI
- Ensuring integration with SAM/QFS
- Defining other synergies
SOAR Design Principles

- Eliminate risk using leading open source software
- Provide 24x7 support for entire stack
- Allow for the use of the most economical storage
- Enable seamless technology adoption and migration
- Provide integrity checks and fixes throughout
- Fit into existing infrastructure and workflow
DuraCloud

- DuraCloud Pilot
  - Replication/Backup
  - SaaS - full stack in the cloud
  - Services - Djatoka
- Will be providing Islandora Cloud products/services
Events

- Red Island Repository Institute
  - 4th Sept 2011, Dalvay Resort, Stanhope
- Islandora Camp
  - 2nd, Summer 2011
Examples
IslandImagined

- Large Image/Map Solution Pack
  - JPEG2000 + additional low-res/TN DSs, Djatoka server
  - MODS metadata, Crosswalk to DC
  - Overlays, Timeline for maps/events
  - Simplified OpenLayer viewer
  - Solr searching/faceting
Welcome

The Island Imagined is an online collection of historic maps of Prince Edward Island. The collection features maps, atlases, books, images, and documents from the Prince Edward Island Public Archives and Records Office, the Prince Edward Island Museum and Heritage Foundation, and the Robertson Library at the University of Prince Edward Island. The Island Imagined contains over 1,000 maps including an early map of the region circa 1574 attributed to John White.
Showing a high level of zoom, Simple OpenLayer viewer
Staff view of Fedora Object / Note Version pull down for DC DS
DuraSpace Webinar

Edit metadata

- Attributes
  - titleInfo
  - name 1
  - typeOfResource
  - genre
  - originInfo
  - language
Edit metadata

Mods

- Attributes

- Attributes

mods:title:

Plan of Lots 65

mods:subTitle:

Queens Co., P.E.I.

mods:partNumber:

mods:partName:

mods:nonSort:
DuraSpace Webinar

Collection

- Successfully updated MODS datastream for object imagined:208435
- Successfully updated DC datastream for object imagined:208435

Island Imagined

Full-size  Description

- [Image of a historical map]
Island Imagined – 14

Goad's Fire Insurance Map – Charlottetown – 1917
DuraSpace Webinar

Map Timeline

Sources:
- IslandImagined.ca

Timeline version 2.3.0 (with Ajax lib 2.2.0).
IslandNewspapers

- Large Image/Newspapers Solution Pack
  - JPEG2000 images, Djatoka server
  - Solr, but no faceting as metadata is too simple
  - Test collection for search highlighting in JPEG2000 as well as Annotation Tool
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Collection
Island Newspapers

Read Description

Collection of Island Newspapers

Page 4/4
ODDS IN TOWN.

CHINATOWN.

LOYALTY, Ladies’ Fur
Far For Muffs.

toff, Astracan, Wombat-
romat

MADISON'S
Queen Street.

SHOE STORE.

Shoe Store.

Boots and shoes.

FRASER'S
Queen Street.

SHOE STORE.

K. D. O. Will cure you.

300 Dow. Cups and Saucers, 250 doz. Plates, 150 doz. Bowls, 200 000. Fucking, Cones, and Preserve Crocks, 400 Water Jugs, Dinner Sets, Tea Sets, Chamber Sets, Glass Water Sets, Table Sets, 500 Bowls, a large number of Milk Pans, Bun Pans, Flower Pots—to be sold cheap, at the Cheapest Crockery Store.

W. P. COLWELL.

Ch'town, May 20, '90.

LOOK OUT!

WATCH next week’s Daily Guardian for Advertisement of large Auction of Kansas Presents and Fancy and Useful Goods. No reserve prices on anything.

E. H. SORBY & CO., Auctioneers.

TINWARE,

STOVEPIPE, ELBOWS,

WATERWORKS.

The undersigned has on hand all kinds of TINWARE, STOVEPIPE, ELBOWS, etc., wholesale and retail.

Also, is prepared to fix up WATER PIPE in Houses, with Fittings for use in the Kitchen or other Rooms, at shortest notice.

Orders left at my Shop, will be promptly attended to.

Mr Terms moderate.

M. STEVENSON,

April 19, 1890

K. D. O. Will cure you.

The Daily Guardian — 18901216

Read Description

1/4

families
The Daily Guardian -- 18901216

We offer you the Largest Assortment of Cloths in the City to select from. Call and see them.

JOHN McLEOD & Co.,
Rogers' Building, Upper Queen Street.

McKinnon & McLean,
Iron Founders, Machinists

Selection from www.islandnewspapers.ca
Please enter an annotation for the selected information or close this pop-up if you want to make another selection.

Annotation Text:
I think we have some original photos of this building that we can use in the story of the company.

Mark

STANLEY'S BOOK

CHEAPEST FUR GOODS IN TOWN

CROCKERY.
IslandLives

- Large Image/Book Solution Pack
- Large Image CM with TEI, WordsXY, +
- Entity Extraction engine
Preserving PEI's community histories

Made possible through a generous private donation, IslandLives contains community and church histories and it builds on the Robertson Library’s mission to preserve and share unique material relating to Prince Edward Island and demonstrates UPEI’s ongoing commitment to making PEI’s cultural and published heritage available to all. Welcome.

Explore By
- Digital Books
- Title
- Place Name
- People
- Subject
- Organization
- Name

Making History
Are you an author whose Island community history doesn’t appear in IslandLives? Would you like to contribute new works, images, or media to enhance the existing stories of a community? If you would like to contribute to the IslandLives project, we would love to hear from you.

Featured Image
This image is from Photograph 1 - Page 373 - Freetown, past and present.
Rev. Harold Mitton, Florence Burke

Wednesday, in the meantime, a cash drive went out to Reverend Malcolm Harlow, an associate pastor at the First Baptist Church in Calgary, Alberta. Malcolm Harlow agreed to come to Charlottetown, but not until March of 1963. The pulpit committee sought a short-term supply minister and found one in Dr. Carl Farmer, who would serve through the winter, from November to April.

From November 5-9 of 1962, the church initiated a major “everyone-enthusiastic campaign” in a well organized effort to raise $57,000. They wanted members to commit an extra $1,100 a week for 50 weeks, or about $2 per week, per member. The energetic campaign was designed to serve two purposes: conduct an intense, meaningful visit to every member, and attempt to raise enough money to relax all concerns regarding the financing of the new building. The campaign was successful and ended with a huge Victory Service at the church on Remembrance Day.

A special search committee of Charlie Scranton, Dr. Lewis and Sid Burhoe was looking for a site to build a church camp. They found a possibility in the Oyster Bed Bridge area, but the site was purchased before they could act. Charlie Scranton explains that, while driving in the Nine Mile Creek area on June 30, 1963, he felt divinely led to a point of land at Rice Point, and some on-the-spot negotiations solidified a deal for it. One month later, the property was purchased by First Baptist for $1,100, and the ground for a new church camp was secured. The Men’s Association picked up the challenge and spent hours all summer improving the grounds and adding facilities. It was a job well done, and a few months later the camp search committee was front and centre at a special tree planting ceremony, to initiate the

service on **September 30**, with many members in attendance, it was reported that the fellowship was so fine that no one wanted to leave. Long time member Ralph Rupert wrote of Pastor Mitton, “He brought the Church to a high state of activity and effectiveness, and as long as the present building stands it will be a monument to his leadership and vision.” In the meantime, a call had gone out to Reverend Malcolm Harlow, an associate pastor at the First Baptist Church in Calgary, Alberta. Malcolm Harlow agreed to come to Charlottetown, but not until March of 1963.

The pulpit committee sought a short-term supply minister and found one in Dr. Carl Farmer, who would serve through the winter, from November to April. From November 5-9 of 1962, the church initiated a major “everyone-enthusiastic campaign” in a well organized effort to raise $57,000. They wanted members to commit an extra $1,100 a week for 50 weeks, or about $2 per week, per member. The energetic campaign was designed to serve two purposes: conduct an intense, meaningful visit to every member, and attempt to raise enough money to relax all concerns regarding the financing of the new building. The campaign was successful and ended with a huge Victory Service at the church on Remembrance Day.

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DuraSpace Webinar

Lysimachia ciliata

- Common Name: Fringed loosestrife
- View the specimen.
- Collected in: New Argyle
- Collected by: A. Cairns
- Date: 13/07/71
DuraSpace Webinar

---

**MetaData**

- **title**: Estelle Bolger T3 [Tape Three]
- **creator**: Thompson, Reg “Dutch”
- **description**: This interview is with Estelle Bolger of Summerside, P.E.I. In this interview Estelle talks about her family, the Halifax Explosion, the Spanish Flu, her mother, her father, her family’s barber shop, Bob Fraser, Georgetown, cars, ice, a murder in the 1930s, snowstorms, and rats.
- **contributor**: Bolger, Estelle
- **date**: 2006-01-09
- **type**: Sound
- **format**: 01:02:49
- **identifier**: voices:voices20100602aca1s007
- **coverage**: Georgetown, PE; Summerside, PE
- **rights**: Reg “Dutch” Thompson holds copyright for all archival material in this digital collection — photos, audio recordings, field notes, etc. — unless otherwise noted. All content is made available for the sole purpose of research and private study, and may not be reproduced or otherwise re-purposed without the permission of the rightsholder(s). Please direct inquiries to UPEI Robertson Library.
Kerr Research Group

The Marine Natural Products Group at the University of Prince Edward Island is engaged in projects directed at the development of sustainable production methods of bioactive marine metabolites and discovering new bioactive bioproducts. The latter group includes metabolites with activities in assays of relevance to human and animal health, and with activity as antifouling agents.
### DuraSpace Webinar

**Groups**

**Audience:**
- My groups
  - MNPL Lab
- Other groups
  - Collaborators
  - CRODA_NB
  - MNPL Admin

Show this post in these groups.

- [ ] Public
  - Show this post to everyone, or only to members of the groups checked above. Posts without any groups are always public.

- [ ] Book outline
- [ ] Revision information
- [ ] Comment settings

**File attachments**

Changes made to the attachments are not permanent until you save this post. The first "listed" file will be included in RSS feeds.

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Roles which can view the attached items:
- [ ] authenticated user
- [ ] member
- [ ] administrator
- [ ] superuser
- [ ] mnpladmin

This only applies to files which you add to the repository. If no roles are checked the item will be public.

Attach new file:
DuraSpace Webinar

**Lab Tools**
- New Ordering
  - Chemical Inventory
  - Group Meetings
  - Safety doc
  - My Personal Space
  - Lab member contacts
  - AIF project
  - Protocols and Procedures
  - File Deposit
  - Internet Links

**Digital repository**

**Digital Collection**
- Detailed List of Content
  - Purge Object
  - Ingest Object
- Description

**Items in this collection**

1-20 of 80
Next>

- Key01: *Eunicea*
- Key010 Gorgoniidae
- Key021: *Eunicea*
- Key025: *Eunicea*
- Key030 *Eunicea*
- Key031 Gorgoniidae
- Key036: *Muricea*
- Key046: Gorgoniidae
MNPL Repository

Search!
Specimens
  • Algae
  • Corals
  • Cyanobacteria
  • Invertebrates
  • Sponges
  • Tunicates
  • Unclassified
2007 Dive Season (Keys)
2008 Dive Season (SS)
Compounds
  • Synthesis
  • Invertebrates
  • Microbes
  • Plants/Other

Digital repository

Key036:

MNPL Critter Record

Key036

Taxonomy
  • Type: Coral
  • Phylum:
  • SubPhylum:
  • Class:
  • Order:
  • Family: Gorgoniidae
  • Genus: Muricea
  • Species:

Collection Location
  • Date Collected: 20070613
  • Site Name: The Patch East of Lue Research
  • Country: US
  • Region: Mote Marine Lab (Summerland Key)
  • Latitude: 24.61
  • Longitude: ~81.62
  • Depth: 26 Feet

Record Status
  • Status:
  • Notes:

Edit This Specimen

Fractions — Add Fraction

Fractions Summary:
### DuraSpace Webinar

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</table>

#### Abbreviation Keys:
- **P1B**: PTP1B
- **ARE**: ARE
- **PA**: Pseudomonas aeruginosa
- **MD**: Mycobacterium dierhoferi
- **HC**: HCT116
- **AP**: Antiproliferative
- **CA**: Candida Albicans
- **ME**: Mycobacterium smegmatis
- **HE**: HEla
- **SA**: Staphylococcus aureus
- **MRSA**: MRSA
- **PC**: PC3
- **EF**: Enterococcus faecalis
- **VRE**: VRE
- **LO**: Lypoxygenase

#### Fractions Summary:
- **Color Codes**:
  - **Hit**
  - **Strong**
  - **Medium**
  - **Low**
  - **No Assay (N)**
  - **Inactive (I)**

- **Abbreviation Keys**:
  - **P1B** = PTP1B
  - **ARE** = ARE
  - **PA** = P. aeruginosa
  - **MD** = M. dierhoferi
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  - **PC** = PC3
  - **EF** = E. faecalis
  - **VRE** = VRE
  - **LO** = Lypoxygenase

#### New Fractions:

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Welcome to the Digital Archives of Colorado College

The Digital Archives of Colorado College is a permanent, web-based repository that collects, preserves, and makes available materials of historical value as well as the scholarly and creative work of the faculty, staff, and students of Colorado College. (More about the Digital Archives.)

Please see the help page for more about using the Digital Archives, or contact a librarian if you have materials that you would like to contribute to the Digital Archives.

Other historical materials related to Colorado College can be found in Special Collections.

What's New?
- Catalyst January 23rd, 2009
- Catalyst January 30th, 2009
- Catalyst February 6th, 2009
- Colorado College – Faculty, Staff, and Administration
- Colorado College – Presidents
- Colorado College – Student Life
- Colorado College Oral History Collection
- Colorado, the Southwest, and the American West / Women of Northwestern Colorado
- Photographs
- Read Posters

Student Publications
- College Alpine Journal
- The Catalyst
- The Colorado College Nugget

Tutt Library and Special Collections
- Chronicle
- Colorado College – Alumni
- Colorado College – Athletics
- Colorado College – Buildings
- Colorado College – Campus Events

From the Faculty...
- Faculty Working Papers
  Economics and Business
  Faculty Publications (Geology)

Department of Economics...
- Faculty Working Papers
- Student Senior Theses 2006–2007
- Student Senior Theses 2007–2008
- Student Senior Theses 2008–2009
- Student Senior Theses 2009–2010
- The Entrepreneur

More Digital Archives Collections...
- Advancement
- Alumni and Parent Relations
- Career Center
- Center for Service and Learning
- Department of Anthropology
- View All...
## Digital Repository

**Title**: Black Rome and the Big Easy: Race and Cultural Politics in Salvador, Bahia and New Orleans. Poster.

**Place of Publication**: still image

**Date Issued**: Colorado College

**Copyright Date**: 2008–02–19

**Digital Origin**: born digital


**Administrative Notes**: File transferred from the graphic designer, Keith Emmons (Colorado College Office of Communications) in 2009. Converted from PDF to PDF/A for preservation.

**Topics**: Lectures and lecturing

**Dates**: 2000–2009

**Handle**: http://hdl.handle.net/10176/coccc:2156

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This object was added January 12, 2010. This object was last updated March 17, 2011 by fedoraAdmin.
DuraSpace Webinar
Delivering NASA Earth Observing System (EOS) Data with Digital Content Repository Technology: A Software System to Promote Best Practice in Digital Provenance and Effective Access of Content and Associated Metadata

Digital content, including Earth Science observations and model output, is an essential part of contemporary scientific research activities. Not only is the rate of archiving for such content increasing rapidly, but there is also an increase in derived and on-demand data product creation and consumption. As a result of these trends, scientific digital content has become even more heterogeneous in format and more distributed across the Internet. In turn, this makes the content more difficult for providers to manage and preserve and for users to locate, understand, and consume. Specifically, it is increasingly harder to deliver relevant metadata and data processing lineage information along with the actual content, particularly when there are multiple ways of delivering the content, including the increasing use of web services, Readme files, data quality information.

Fedora Common Repository: What’s new

- Eight Inlr’l Research Funders Sponsor “Digging into Data Challenge”
- REGISTRATION OPEN: PASIG Oracle User Group, Redwood City, CA May 10-12
- All About Islandora: April 6 at King’s College, London
- OR11 REGISTRATION NOW OPEN: Discounts Available Through May 6
**Digital Repository**

**BigFoot**

The objective of BigFoot is to provide ground validation of MODLand (MODIS Land Discipline Group) land cover, leaf area index (LAI), fAPAR, and net primary production (NPP) products. The name BigFoot was selected to describe the multiple scales, or footprints, of ground validation that the project will undertake. The current BigFoot study plan covers measurement, mapping, and modeling activities at four sites, each equipped with a meteorological flux tower that makes continuous measurements of energy, water, and carbon fluxes for a roughly 1-km² footprint.

### Items in this collection

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<tr>
<th>Name</th>
<th>Type</th>
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<tr>
<td>FIELD DATA FOR NORTH AMERICAN SITES</td>
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<td>GPP SURFACES FOR NORTH AND SOUTH AMERICAN SITES</td>
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<td>LAI SURFACES FOR NORTH AND SOUTH AMERICAN SITES</td>
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<td>NPP SURFACES FOR NORTH AND SOUTH AMERICAN SITES</td>
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</tr>
</tbody>
</table>
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Gail Truman - gail@trumanttechnologies.com