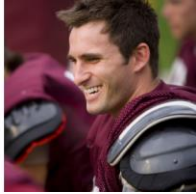
McMaster University

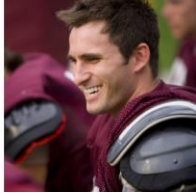


Reshaping Scholarly Communication Services

Our Path to Open Source

Dale Askey - @daskey Gabriela Mircea Olga Perkovic

McMaster University - @maclibraries



Outline

Background

Work Organization

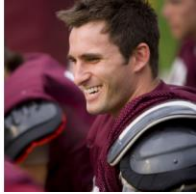
Technical Challenges

Communication Plan

Challenges and Opportunities

Q&A

McMaster University



Background

Launched Digital Commons in 2006

Started with institutional repository

Added journals gradually as needs arose

Digitized theses and dissertations as of 2008

ETD as of 2011 with cooperation of School of Graduate Studies

Digital Commons was fine, but ...

Development roadmap too conservative

Paying for software where strong open source exists

No ability to support DOI minting and registration

Longterm costs are significant, not least at present

Development roadmap

Companies don’t make money by putting functionality in our hands

Offer services as “value added” features, i.e.- additional costs

Examples: LAC harvest, DOI registration

Hosting ≠ preservation!

Using an external host saves you the easy task

Getting your own data out can be arduous

Adherence to metadata standards dubious

Zero flexibility as this is not a priority

Philosophical and strategic alignment

Prefer to use open source when and where possible

Putting the library into the work to add value, create relationships

Libraries need to be more than invisible bill payers for unsustainable practices

What we migrated

~8,000 items in IR

15 journals (10 faculty, 5 student - one journal left/one joined)

Thousands of journal users and articles

People - journal editors and managers, SGS

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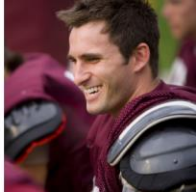


Work Organization

From Digital Commons to

MacSphere

MacSphere
McMaster University Libraries | Institutional Repository

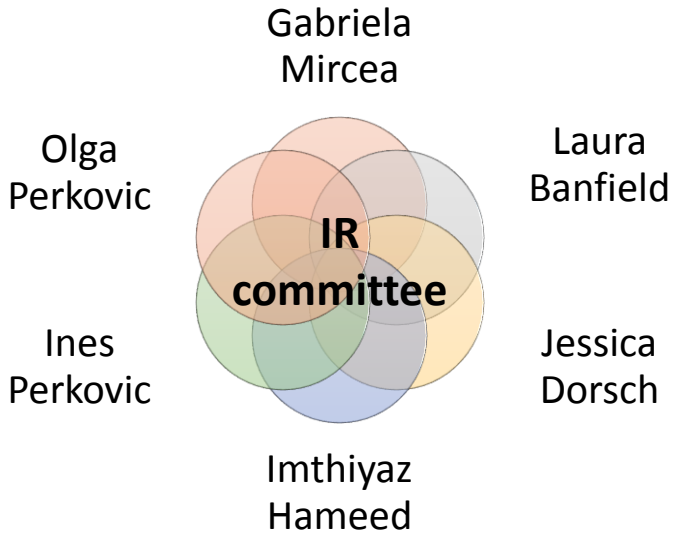
Student Journals

McMaster University | Publishing System for Student Journals

Escarpment Press

ESCARPMENT PRESS

IR migration - Digital Commons to MacSphere



- IR committee formed
- Platform selected: DSpace
- Created project plan
  - scope, stakeholders, assumptions and constrains, risk assessment, resources, and schedule management plan

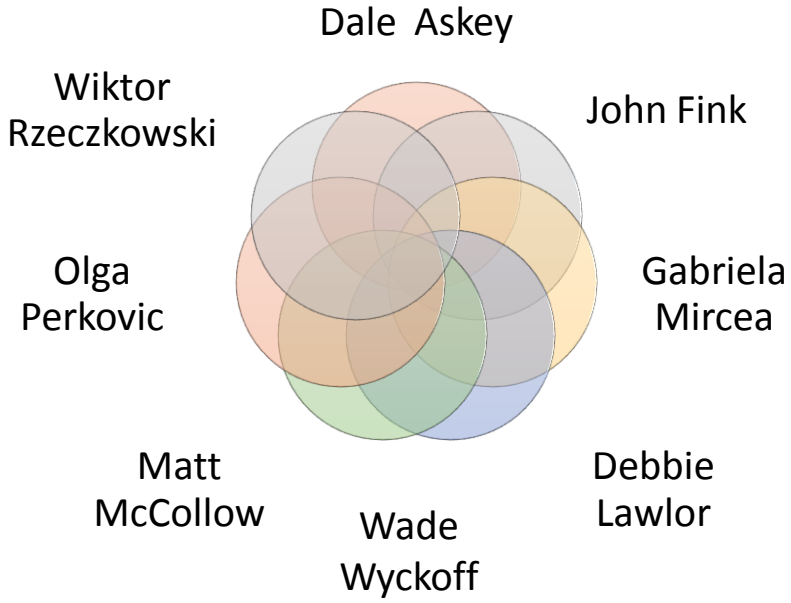
Special Thanks			
John Fink	Debbie Lawlor	Matt McCollow	Wiktor Rzeczkowski

MacSphere
McMaster University Libraries | Institutional Repository

Schedule Management Plan

Initiation Phase	
Decide on a name	May 1, 2014
Planning Phase	
Project Plan Approved	May 05, 2014
Execution & Control Phase	
Set up test server / Install application	April 15, 2014
Recreate the collections structure and test it on the test server	May 8, 2014
Develop scripts to migrate as much as possible the users (authors, submitters, administrators) and their roles from digital commons to DSpace	May 15, 2014
Test/update Ryerson's scripts for migrating data with quarterly dump on the test server	May 15, 2014
Recreate the SGS workflows and metadata custom fields on test server	May 14, 2014
Set up production server / Install application	May 16, 2014
Contact Corporation for National Research Initiatives (CNRI) about the handle prefix	May 20, 2014
Develop redirect rules to redirect users to new url	May 23, 2014
Implement McAuth on the test server	May 26, 2014
Contact UTS about moving McAuth to production	May 26, 2014
Create the McMaster look and feel	May 27, 2014
Design logo for MacSphere	May 27, 2014
Implement McAuth on the production server	June 2nd, 2014
Organize training sessions for existing clients	May 30, 2014
Coordinate with BePress to get all IR data on June 16	June 2nd , 2014
Do a full test migration on the test server	June 4, 2014
Recreate the workflows and metadata custom fields on test server for all (other) communities	June 5, 2014
Prep production server/application	June 13, 2014
Suspend submissions to digital commons/start submission to MacSphere	June 16, 2014
Update websites and staff	June 18, 2014
Migrate BePress data	June 18, 2014
Implement redirect rules	June 18, 2014
Official launch of MacSphere	June 18, 2014
Delete IR data from digital commons	June 19, 2014
Make policy decisions regarding support	June 30, 2014
Closure Phase	
Ensure customers are happy with the system/perform quality control	June 25, 2014
Project Completed (All project deliverables completed and project can be signed-off)	June 30, 2014
Lessons learned	October 2014

Journals migration - Digital Commons to Escarpment Press and Student Journals



- OJS already implemented
- We took a different approach – structured around journal editors
- Set one week aside for each journal
- We worked with each journal editor to make sure they are happy

ESCARPMENT PRESS

McMaster University | Publishing System for Student Journals

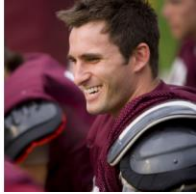
Risk management

Project Risks

- Reaction to change
  - Staff
  - Stakeholders

Risk Response Plan

- Mitigation - provide adequate training and information sessions well in advance



Technical Challenges

IR - Migration technical challenges

- Metadata mapping for migration
- From quarterly dump
- http://www.bepress.com/document-export.xsd

```
dcs1 20:35:31/big1/IR/DigitalCommons/quarterly-dump/20140616/todo/libraries_fp/31
# more metadata.xml
<?xml version='1.0' encoding='iso-8859-1' ?>
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<publication-date>2013-10-24T00:00:00-07:00</publication-date>
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</documents>
```

IR - Migration technical challenges

- Coordinate data handover
- All pdfs had an optional Bepress cover page – we asked to be removed
- Recreate the structure
- Maintain embargo information
- Recreate users and their roles

Email	Name	Institution	Editor in	Admin in

- No md5 for any of the files

```
dcs1 09:46:20/big1/IR/DigitalCommons/quarterly-dump/20140616/todo/libraries_fp/31
# ls -ltr
total 468
-rw-r--r-- 1 mirceag mirceag 471161 Jun 13  2014 fulltext.pdf
-rw-r--r-- 1 mirceag mirceag   2106 Jun 13  2014 metadata.xml
```

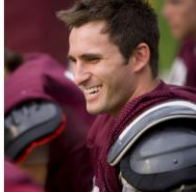
Journals - Migration technical challenges

- Requested a second dump of the data
- Recreated the design for each journal
- Issues migration
- Only published material
- All workflow data was lost
- Maintaining usage data for future grant applications
- Maintain subscriptions

Lessons learned

- Test, test, test ….
- Plan well ahead
- Vendor was very helpful with this process

McMaster University



Communication Plan

Communication - Pre-Migration

- IR - Major stakeholders
  - The School of Graduate Studies (SGS), Jan. 2014 (initial meeting)
  - University Councils and administrators, March-April 2014 (meetings)
  - Other stakeholders e.g. McMaster Health Forum, June 2014 (meetings and training)
- Journals - Major stakeholders
  - Journal managers and editors notified via letter, April 2014
  - Two information meetings, May 2014
- IR Committee
  - Created and maintained Pre- and Post-Launch Communication Plans
  - In-house training on DSpace, March, 2014

Communication - Pre-Migration - Sample plan

PRE-LAUNCH COMMUNICATION

Stakeholder Group	Communication approach/activity	Person Responsible	When (date)	Done (check)
Graduate Council chaired by A. Sekuler	Messaging at Council meeting	Jessica Dorsch	Meet monthly; March 25	☑
Thesis Subcommittee of Grad Council chaired by N. Agarwal and B. Ibhawoh	Messaging at Council meeting	JD, Olga Perkovic	First meeting; March 24	☑
Best Practices Lunch: SGS Update	Messaging at event	JD	March 26	☑
Associate Deans (SGS)	Messaging via email	JD	March	☑
SGS Executive (SGS management and Associate Deans) chaired by A. Sekuler	Messaging at Executive meeting	JD, Gabriela Mircea, OP	Meet monthly; April or May	☑

Communication - Pre-Migration - New names

IR = MacSphere McMaster University Libraries Institutional Repository

Journals

Faculty Journals = ESCARPMENT PRESS

Student Journals = McMaster University | Publishing System for Student Journals

Communication - During the Migration

- MacSphere (IR)
  - In contact with the SGS throughout the migration
  - In-house training for IR committee members and key stakeholders, June 2014
- Journals
  - Heavy email traffic with journal managers and editors, both on the details and philosophy for the change

McMaster University | Publishing System for Student Journals

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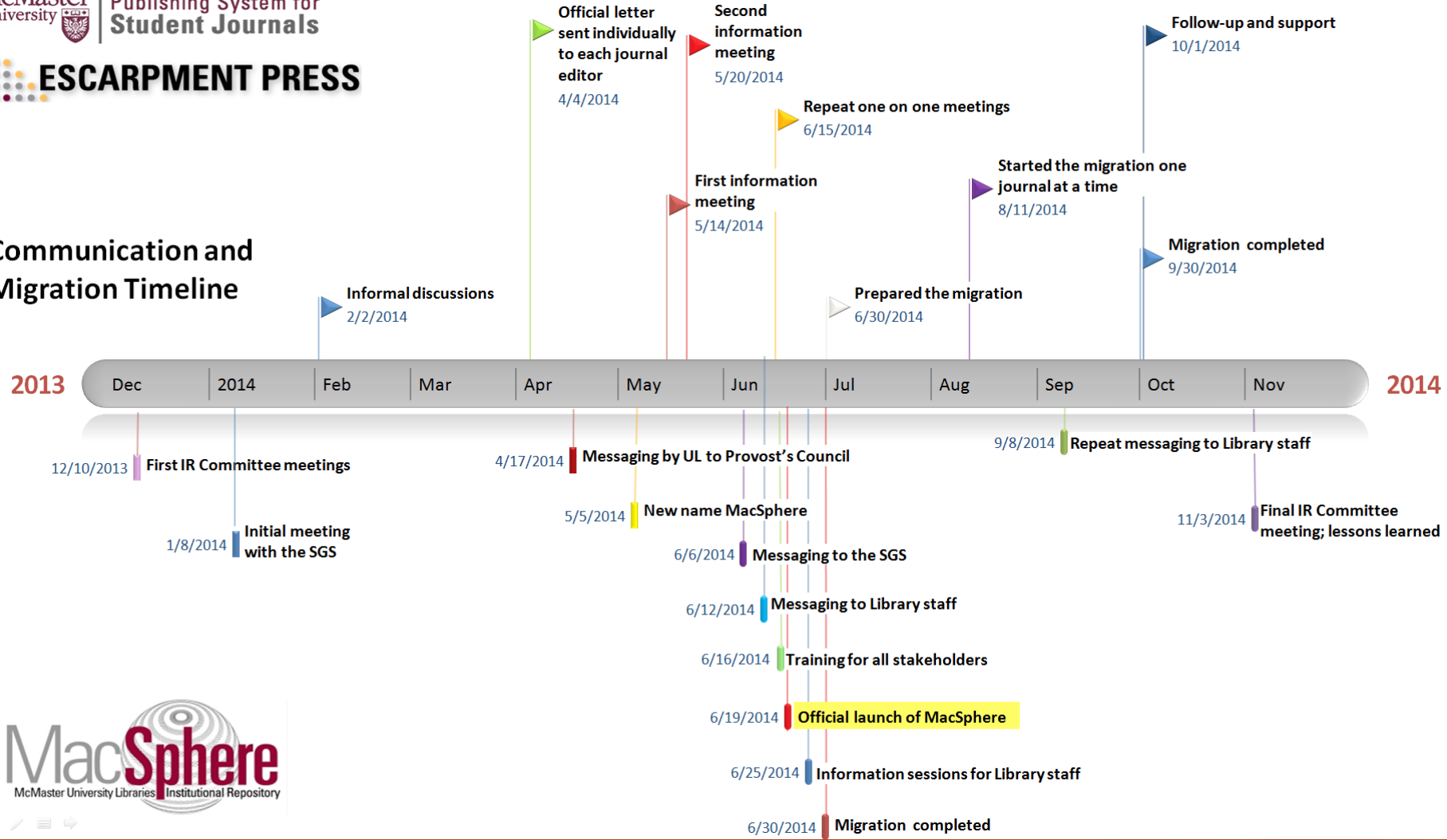
Communication and Migration Timeline



MacSphere
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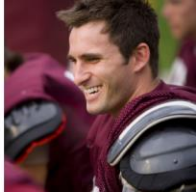
Communication - Post-Migration

- MacSphere (IR)
  - Official launch, June 18, 2014
  - Post-Launch Communication Plan
  - Messaging to Library staff, June and September (email, management and all-staff meetings)
  - Messaging to the SGS and other stakeholders, June 2014 (meetings)
  - Messaging to campus community, September and October (email, blog stories)
  - Drop-in sessions, Open Access Week, October 20-26, 2014
- Journals
  - Continued support for journal managers and editors



Challenges and Opportunities

Challenges - Post-Migration

- MacSphere (IR)
  - Minor interface changes completed
  - Fairly significant metadata cleanup required
  - Could not reliably distinguish faculty from grad students at log in
  - Email support for grad students required clarification
  - New SGS policy on re-submission of theses established, May 2015
- Journals
  - Learning curve with OJS varied among journal editors and managers
  - Level and type of support varied among journal editors and managers
  - Some DOI tinkering required
  - First meeting of journal editors and managers, Feb. 10, 2015
    - OJS Training Workshop, May 13-14, 2015
    - New press name coming soon!

Opportunities - Post-Migration

- MacSphere (IR)
  - New and developing collections
  - Work with campus IT to make changes to MAC ID authentication
- Journals
  - New journals being added
  - Mint DOIs for faculty journals
  - Faculty questions about journal publishing
  - Low to no barriers to entry

Q&A

Thank you!