eCampusOntario Infrastructure for Open Publishing of Learning Resources

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Ryerson University

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Project Objective

Build a prototype open publishing infrastructure to integrate and extend the BC Open Textbook Library that will be migrated from BCcampus to eCampusOntario in May 2017 with a project completion date of Aug. 31, 2017

Key Deliverable Workstreams

The four core activity streams are:

Pressbook prototype with enhanced features

Integrate an open source repository that will support the open textbook platform and other content

Community building and knowledge mobilization

Learning module authoring and distribution prototyping

eCampusOntario Infrastructure Project

Key Deliverable Workstreams

Project leadership and governance structure:

Ann Ludbrook, Copyright Librarian, Ryerson
Communications & Community Building Chair

Hongbo He, Director, Applications Services, CCS, Ryerson
Infrastructure Chair

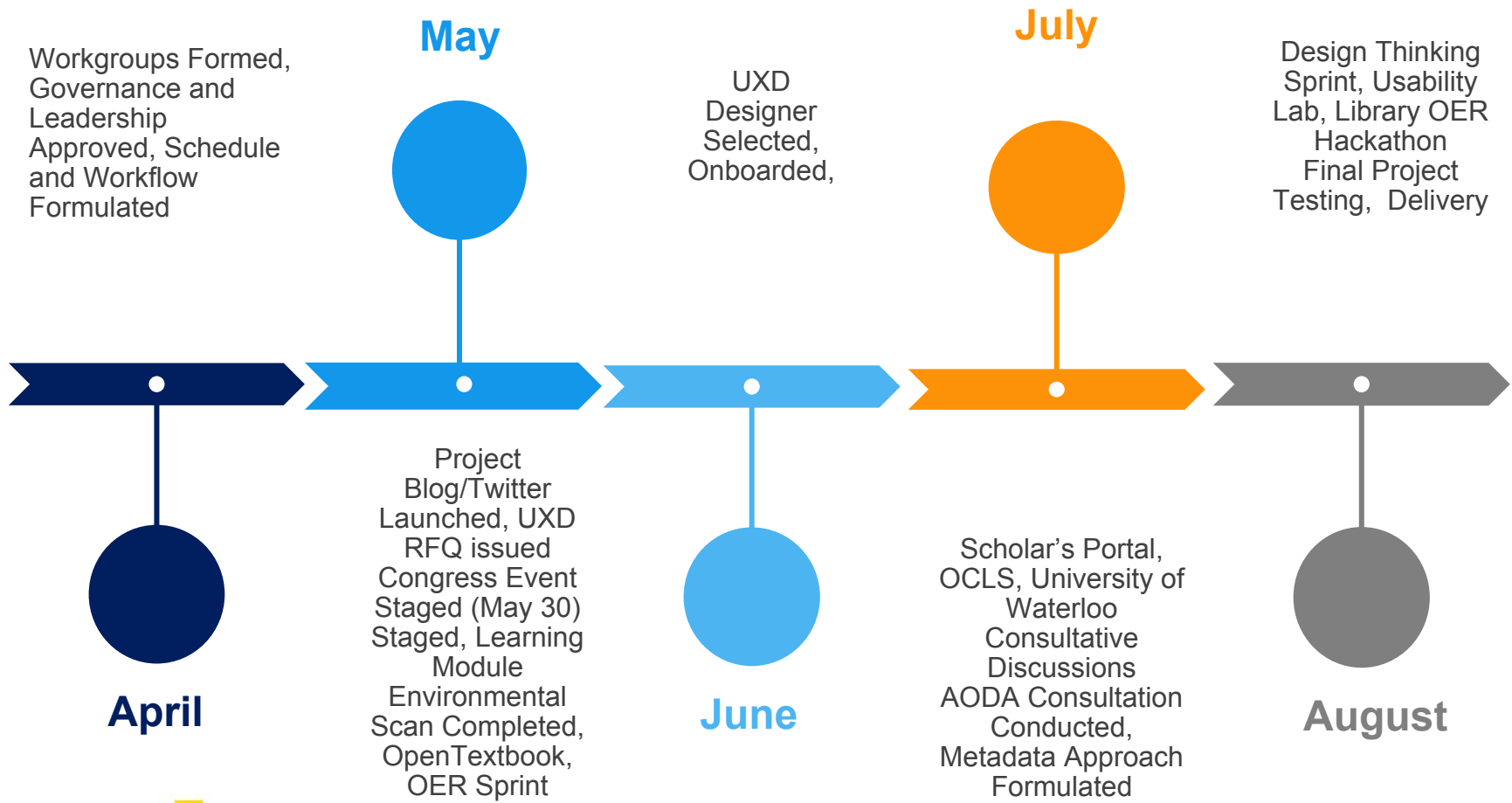**Hugh McGuire, Co-Founder, Rebus**
Pressbooks Chair

Naza Djafarova, Director, Digital Educational Strategies,
Chang School
Learning Module Authoring Chair

Chairs Meeting

Our Partners

Major Milestones

May

July

Workgroups Formed, Governance and Leadership Approved, Schedule and Workflow Formulated

UXD Designer Selected, Onboarded,

Design Thinking Sprint, Usability Lab, Library OER Hackathon Final Project Testing, Delivery

April

Project Blog/Twitter Launched, UXD RFQ issued Congress Event Staged (May 30) Staged, Learning Module Environmental Scan Completed, OpenTextbook, OER Sprint

June

Scholar's Portal, OCLS, University of Waterloo Consultative Discussions AODA Consultation Conducted, Metadata Approach Formulated

August

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Timeline

April	May	June	July	August	Sept	Oct	Nov

Research, Consultation

Testing

Development

Communications & Community Building

Prototype completion, Learning Module report, Final Report

Infrastructure Workgroup Tasks

Integrate an open source repository that will support the open textbook platform and other content

- Evaluate available open source repository systems and consult with BCcampus and other Canadian institutions regarding their OER repositories
- Install, configure and customize the functions of the selected repository system to meet the requirements of open textbooks and other types of OER content
- Develop a customized/branded design for an eCampusOntario open textbook library
- Investigate and integrate a Single Sign On (SSO) authentication system (e.g. CAS and Shibboleth) for the selected repository system
- Integrate the selected repository system with Pressbooks
- Extend repository to support possible identified requirements that are not supported out of box

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TOOLS FOR EDUCATORS

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ADOPT

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FIND AND ADAPT

CREATE

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START AUTHORING

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CALL FOR REVIEWERS

> Interested faculty, meet the criteria and become a textbook reviewer.
> Instruct in the subject area of the open text.
> Currently teach at a post-secondary institution in Ontario.
> Possess a willingness to adopt a high quality open textbook.

SUBMIT AN APPLICATION

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OPEN TEXTBOOK CATALOGUE

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FIND A TEXTBOOK

Displaying all Post-Secondary items in Science with the keyword "Biodiversity"

AUTHOR OR KEYWORD

SUBJECT
All Subjects
Art
Health
Recreation
◉ Science

SHOW 5 MORE SUBJECTS

EDUCATION LEVEL
All Levels
Primary

Science

Conservation Science

Some Author, Another Author, and Yet Anotherone

◉ About this book

Science

Introduction to Biodiversity

Some Author

◉ About this book

Science, Social Science

Advanced Topics in the Philosophy of Science

Some Author

◉ About this book ★
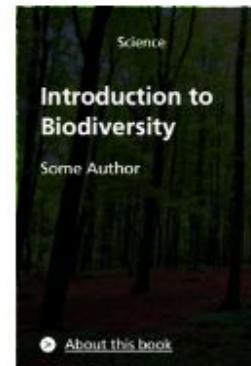
Science

Science

Science

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Communications Workgroup Tasks

Engaging in ongoing promotion, information sharing and leadership activities across Ontario to support Open Education Resources (OER) skill-building and development

- Speaking at post-secondary events dedicated to open learning content development
- OER working teams and experts actively engaged in community- and foundation-building activities across the higher education community.
- Consult with representation from OCUL, OUCEL, OCLS, University of Waterloo, and Queen's University
- Consultation with upcoming OER and Library association meetings to include focus groups
- Establish opportunities to receive iterative feedback from representative community partners through existing grassroots communities.

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Recent Updates

- Establishment of a Project Blog
- Congress 2017 OER Promotional/Community Event on May 30
- Creation of a Poster Presentation
- Launch of a Twitter channel
- OER Librarian listserv
- Consultation session with Scholar's Portal and OCLS
- Creation of an event banner and supporting collateral
- Ongoing news and blog posts

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Future Events

- OER Sprint Toolkit
- Late September Ontario-wide Librarian Sprint Day
- Open Access Week event
- Funding for OpenCon conference
- OLA Superconference Panel

Pressbooks Workgroup Tasks

Design

The overall design will be focused on branding a Pressbooks Textbook Creation and Editing system available to eCampusOntario members, and improving the overall design of the system.

Specific tasks will include:

- Developing and implementing a customized/branded design for an eCampusOntario Open Textbook authoring system
- Improvements to the Open Textbook catalog design and implementation
- Improvements to standard Pressbooks web-based "book" interface
- Custom template (web, pdf, epub/mobi) for eCampusOntario

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OPEN TEXTBOOK CATALOGUE

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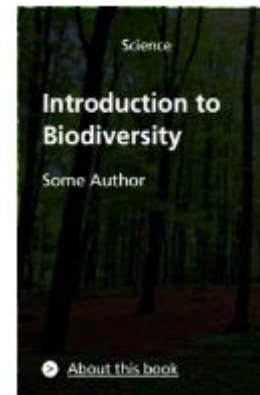## FIND A TEXTBOOK

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Advanced Topics in the Philosophy of Science

Some Author

◯ About this book ★

Pressbooks Workgroup Tasks

Implement WordPress core REST API
- This project will expose any openly licensed Pressbooks book (on any network) to the core REST API, meaning (among other things) that all content (metadata, books, chapters, images etc) can be queried.
- The REST API would also allow other applications to build on Pressbooks, and collections of Pressbooks books.
- **Status**: V2 API complete.

Pressbooks Workgroup Tasks

Submission to DSPACE repository
- We are building a system to allow a Pressbooks book to be submitted to a DSPACE repository
- We are using the SWORD repository submission protocol
- **Status:** prototype repository submission is complete.

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Pressbooks Workgroup Tasks

Cloning of books & collections

- Building on the API work, we are developing a system to easily "clone" a complete Pressbooks book
- This will allow any user to copy any openly licensed Pressbooks book (including all content, media etc) into a new version, to allow revision, remixing etc.
- This significantly improves on the export-import method currently used.
- **Status:**
  - V1 cloning is almost complete, allowing cloning within a Pressbooks network.
  - V2 will include ability to clone from any Pressbooks network.
  - V3 (probably out of scope) will include the ability to clone an entire collection

Pressbooks Workgroup Tasks

AODA Compliance & Improvement

This project will ensure AODA compliance (for users/authors, and readers) of the OpenTextbook Editing and Creation system. This work will be done in collaboration with OCADU's Inclusive Design Research Center (IDRC). The project will include:

- An audit of the system (for authors and readers)
- Remediation, where necessary, of any problems identified
- Integration of the OCADU / FLOE User Preference Toolbar by default

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Pressbooks Workgroup Tasks

Follow-on Project Recommendations

This project will provide recommendations for next steps, and follow-on improvements, including, but not limited to, scoping and budgeting for:

- Development of proposals for mechanisms to offer any eCampusOntario member institution a dedicated, branded Pressbooks instance (co-branded with eCampusOntario)
- Improved support for annotation
- Integration with LTI/LMS systems
- Enabling single sign-on / user authentication
- Improvements in collaboration functions
- Improvements in EPUB3 import/export & round-tripping
- Publishing source code to open source software community
- eCampusOntario role in supporting OER development, adoption and support in Ontario

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Thank you