



*Lisa, workshop attendee*

## MULTIPLY K-12 **OPEN EDUCATIONAL RESOURCES**

### **ABOER K-12 PROJECT**

**Building In-service Teacher OER Capacity for Graduate Credit**

**Dr. Connie Blomgren** • Centre for Distance Education, Athabasca University

**Verena Roberts** • Technology for Learning Specialist - Educational Technology, Rocky View School Division



## Background

Curriculum redesign of 3 Graduate courses for the Blended and Online Learning and Teaching (BOLT) offering through the partnership between Athabasca University and Alberta Distance Learning Centre.

BOLT 676 - OER and Systems Thinking  
MDDE 622 - Openness in Education  
ABOER call for funding proposal



## What is ABOER?

The screenshot shows the homepage of the Alberta-based Open Education Resource (ABOER) website. At the top left is the ABOER logo. Below the logo is a navigation menu with links for Home, About Us, Contact Us, and other sections. The main content area features a large banner that reads "ABOER TOOLKITS ARE LIVE!". Below this banner is a call to action: "COLLABORATE: a future Alberta-wide OER community" with a "CLICK TO JOIN" button. Underneath, there are two featured toolkits: "Starter Kit" and "Champion's Toolkit", each with a small image and a smiley face icon. At the bottom of the page, there is a section titled "ABOER ARTICLES".



## OER and Professional Learning

### OER and Higher Education

- History

### OER and K-12

- Alberta

- National

- USA

- International



## Project Team

**Dr. Connie Blomgren** – Project Lead

**Verena Roberts** – Subject Matter Expert

**Dan Wilton** – Project Assistant

**Levina Yuen** - Instructional Media and Educational Technology Developer

**Gloria Richardson** – Project Manager

**Lindisfarne Media Production** – Simon, Sheena, Kelsey

**Carrie Anton** – Assistive Technologist - UDL consultant



## What are Open Educational Resources?

Open Educational Resources (OER) are any type of educational materials that are in the public domain or introduced with an open license. The nature of these open materials means that anyone can legally and freely copy, use, adapt and re-share them. OERs range from textbooks to curricula, syllabi, lecture notes, assignments, tests, projects, audio, video and animation.

UNESCO, 2017, para 1

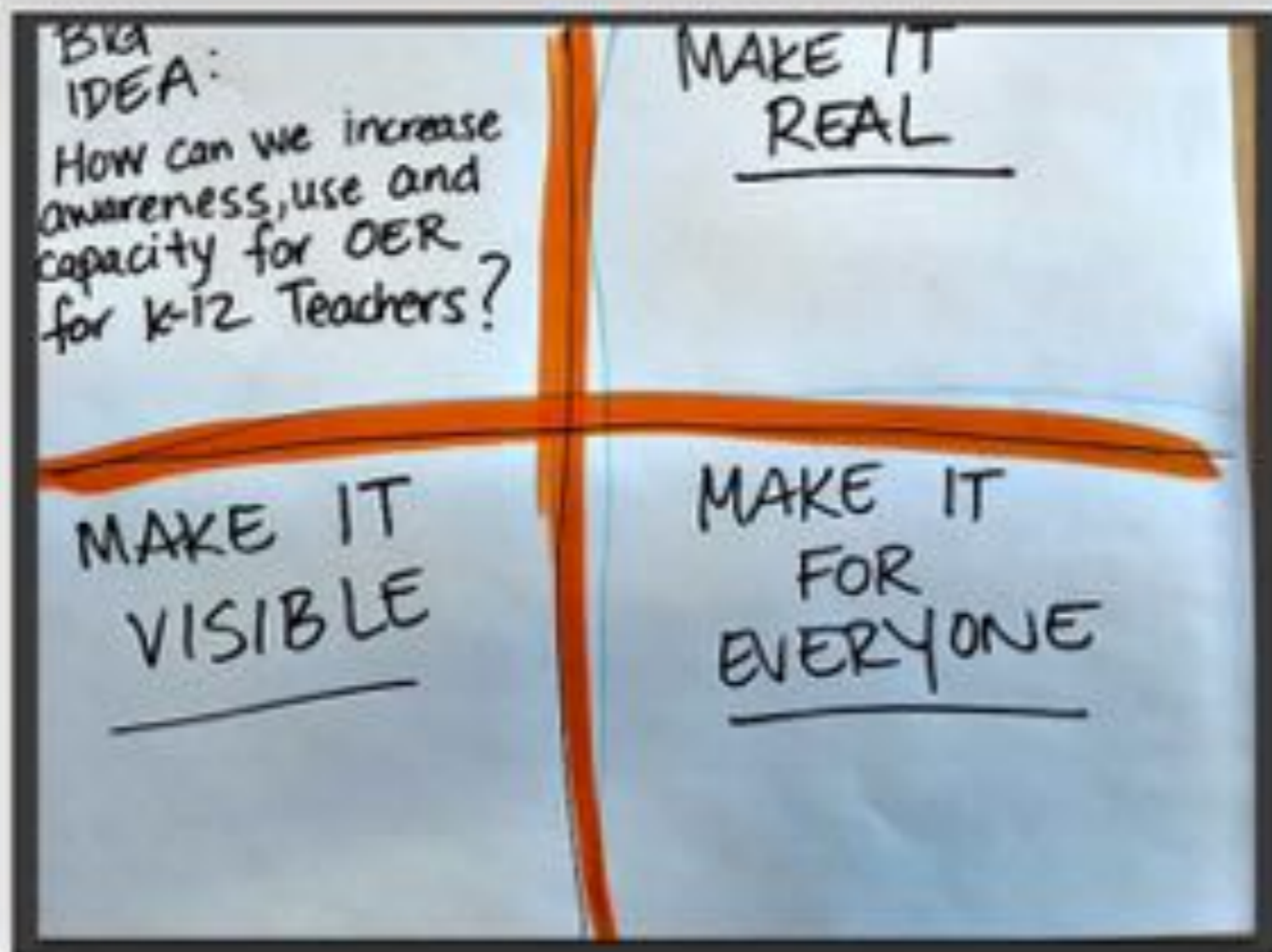


## The 5R's of OER

- Reuse:** the right to use the content in a wide range of ways (e.g., in a class, in a study group, on a website, in a video);
- Revise:** the right to adapt, adjust, modify, or alter the content itself (e.g., translate the content into another language);
- Remix:** the right to combine the original or revised content with other open content to create something new (e.g., incorporate the content into a mashup);
- Redistribute:** the right to share copies of the original content, your revisions, or your remixes with others (e.g., give a copy of the content to a friend);
- Retain:** the right to make, own, and control copies of the content.



## Collecting OER Voices and Perspectives







## Project Contributors

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The William and Flora Hewlett Foundation

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Chairman, Canadian e-Learning Network

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The Open University, Open Education Research HUB

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CEO, Canadian eLearning Network

**James T. Swanson, BASc, JD, MBA**

Lawyer/Partner Miller Thomson LLP, Calgary



## Podcast Creation

Title of Podcast: Benefits of Open Educational Resources

Interviewees: Sarah Weston, Royce Kimmons, Rory McGreal, Beatriz de los Angeles

Intro music	
Intro tag	Welcome to our podcast on the benefits of open educational resources and what they can contribute to our work as professionals and to the learning of our students.
Narration	<p>When we are first introduced to the non-commercial, freely-shared ethos of open educational resources, it's natural to assume the primary benefit of OER must be cost. Surely, in an educational system where there never seems to be adequate finances to accomplish all we would like, free must be a powerful draw. Not only would free resources save local districts from one of the major expenses of education, but it would promise an unprecedented opportunity to reduce educational inequality around the world. Seen as a technical solution, perhaps this is all we would need to say about the benefits of open educational resources.</p> <p>Yet Sarah Weston, Director of OER and Technology at Mountain Heights Academy in Utah, suggests there may be more to the story of open educational resources than cost savings alone.</p>
Clip	<p>Weston 14:05-15:45</p> <p>When I first started talking about OER and people asked me the benefits, the first thing I always said was cost. It seemed like a no-brainer to me that something that was free or nearly free was going to be the biggest selling point of OER. And I would talk about that up until last year. I'd have my list of my four things why OER is amazing and you should use it, and I always led with cost. And I think cost is a factor when we're talking about colleges and universities because the idea, you know, of providing, you know, a five-dollar textbook as opposed to a hundred-and-forty-dollar textbook, when it's coming out of the student's pockets, out of the student's pocketbooks, makes a huge difference. But here's the thing with K-12. Cost has not been a factor. And I've been feeling</p>



## Video Recordings

Based on Kimmons (2015) research  
of evaluating closed and open  
source textbooks

Pre and post video interviews

OER workshop filmed as well

Practitioner-based

Process-based

Examining the continuum of OER  
awareness, use and  
championship

The "wicked" problems of OER...





## Heuristic for the Practitioner Videos

The Open Pedagogy Model  
Hegarty, B. (2015)





## Videos

### Open Pedagogy 1: Attributes of Open Community

Through a series of interviews and direct examples, a panel of teachers from Alberta describe their use of open educational resources to create their own open communities of learners, following the first four attributes of Bransford Higgins's model of open pedagogy: per-  
spective technology, people, openness, and trust, innovation and creativity, and the connected community.



Open Pedagogy 1: Attributes of Open Community: Multiplying OER Impact: Building In-service Teacher OER Capacity for Graduate Credit ADOER by Dr. Corrie Blomgren, PhD & Victoria Roberts is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License.

### Open Pedagogy 2: Attributes of Open Practice

The panel of teachers from Alberta continue their descriptions of, and recommendations for, the effective use of open educational resources in the classroom through the remaining four attributes of Bransford Higgins's open pedagogy model: sharing ideas and resources, learner-generated content, reflective practices, and peer review.



Open Pedagogy 2: Attributes of Open Practice: Multiplying OER Impact: Building In-service Teacher OER Capacity for Graduate Credit ADOER by Dr. Corrie Blomgren, PhD & Victoria Roberts is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License.

### Alberta Perspectives on OER in K-12 Learning

This working video introduces a group of teachers from Alberta as they explore open educational resources, present their own experiences with OER in their classrooms, and offer suggestions for their effective use to enhance learning.



Alberta Perspectives on OER in K-12 Learning: Multiplying OER Impact: Building In-service Teacher OER Capacity for Graduate Credit ADOER by Dr. Corrie Blomgren, PhD & Victoria Roberts is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License.

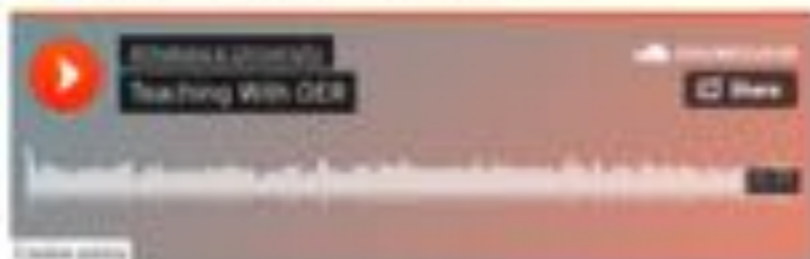


## Podcast

### TEACHING WITH OER

LEAVE A COMMENT

This podcast considers the developing awareness and use of K-12 OER by classroom teachers, the changes to teaching and learning that an open teaching practice creates, and the ongoing need for OER professional development for educators.



Contributors: [D Bliss](#), [Michael Casuel](#), [Beatriz de los Angeles](#), [Bill Fitzgerald](#), [Royce Kimmens](#), [Randy LaBonte](#), [Sarah Weston](#)



Teaching with OER - Multiplying OER Impact: Building in-service Teacher OER Capacity for Graduate Credit ABOER by [Dr. Cecile Blomgren, PhD & Verena Roberts](#) is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](#).

[Download the Transcript, Teaching with OER](#)



## Podcasts: Part One. OER Overview in K-12 Learning

### K-12 OER PODCASTS

#### Part One. OER in K-12 Learning: An Overview

1. [Welcome: The Project Context](#) 🎧

Contributors: Connie Blomgren, Verena Roberts

2. [A History of OER](#) 🎧

Contributors: TJ Bliss, Randy LeBonte, Rory McGreal, David Porter, Sarah Weston

3. [The Current Landscape of OER](#) 🎧

Contributors: TJ Bliss, Beatriz de los Arcos, Michael Conuel, Bill Fitzgerald, Randy LeBonte, Rory McGreal, David Porter, Sarah Weston

4. [Benefits of OER for K-12 Learning](#) 🎧

Contributors: Beatriz De Los Arcos, Royce Kimmons, Rory McGreal, Sarah Weston

5. [Acceptance of OER in K-12 Education](#) 🎧

Contributors: TJ Bliss, Bill Fitzgerald, Royce Kimmons, Randy LeBonte, Rory McGreal, David Porter, Sarah Weston



## Podcasts: Part 2. OER & Pedagogy in K-12 Learning

### Part Two. OER and Pedagogy in K-12 Learning

#### 1. [Learning with OER](#)

Contributors: TJ Bliss, Michael Canuel, Bill Fitzgerald, Rory McGreal, Sarah Weston

#### 2. [Teaching with OER](#)

Contributors: TJ Bliss, Michael Canuel, Beatriz de los Arcos, Bill Fitzgerald, Royce Kimmons, Randy LaBonte, Sarah Weston

#### 3. [Openness and the Open Mindset in Learning](#)

Contributors: Michael Canuel, Beatriz de los Arcos, Royce Kimmons, Randy LaBonte, Rory McGreal, David Porter

#### 4. [The Eight Attributes of Open Pedagogy](#)

Contributors: Bronwyn Hegarty

#### 5. [The Open Pedagogy Model](#)

Contributors: Bronwyn Hegarty





## Podcasts: Part 3. OER Policy & Copyright in K-12

### Part Three. OER Policy and Copyright in K-12 Education

1. [Creating Policy for OER in Canada](#) 🎧

Contributors: Randy LaBonte, Rory McGreal, David Porter

2. [Copyright and User Rights: A Definition of Terms](#) 🎧

Contributors: Jim Swanson

3. [K-12 Scenario with Copyright and Fair Dealing](#) 🎧

Contributors: Jim Swanson

### Supplementary Scenarios: K-12 Education and Copyright

A) [Supplementary Scenario: Digital Copies and Copyright](#) 🎧

Contributors: Jim Swanson

B) [Supplementary Scenario: Learning Management Systems and Copyright](#) 🎧

Contributors: Jim Swanson

C) [Supplementary Scenario: Course Sharing and Copyright](#) 🎧

Contributors: Jim Swanson

D) [Supplementary Scenario: Content Creation and Copyright](#) 🎧

Contributors: Jim Swanson



## Where are the Resources Located?

**BOLT Multi-Authored Blog**  
<http://bolt.athabasca.ca>

**BOLT Multi-Authored Blog**  
Blended and Online Learning and Teaching  
Professional Learning for Educators

TEACHERS REVIEW TECHNOLOGY IN EDUCATION | **EDUCATIONAL RESOURCES** | EVOLVE YOUR TEACHING PRACTICE | ABOUT BOLT | JOIN THE BLOG

SEARCH

EDUCATIONAL RESOURCES

- HEALTHY & SAFE WORKSHEET
- LEARNING WORKSHEET
- TECHNICAL SKILLS WORKSHEET
- TECHNICAL SKILLS WORKSHEET

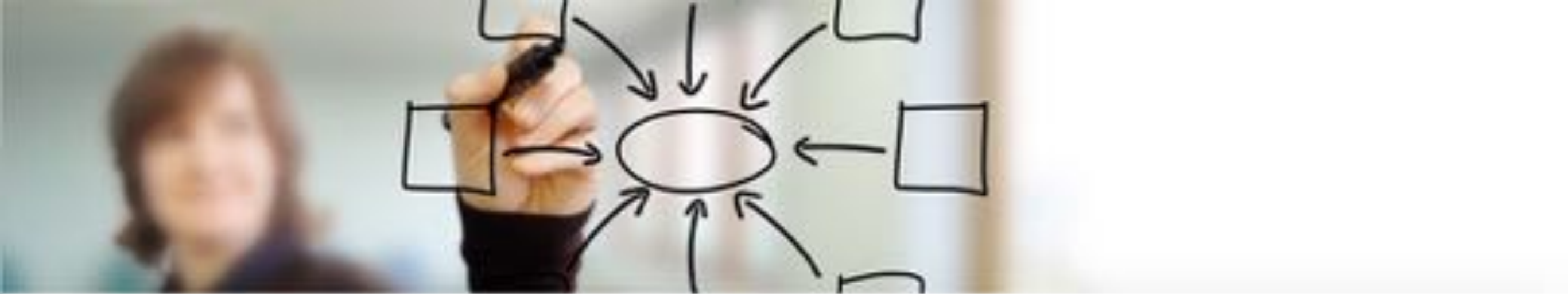
**A WALK IN THE CLOUDS (A TEACHER'S PERSPECTIVE ON CLOUD COMPUTING)**  
By January 21, 2017 | Read a Comment

**Teacher Editorial | By Shelby Grey-Santana (BOLT student)**

**Head in the Clouds**  
Cloud computing is one of the emerging education technologies that is impacting teachers and learners, inside and outside the classroom. But what is this "cloud" anyway? Essentially cloud computing means

**RECENT BLOG POSTS**

- A Walk in the Clouds (A Teacher's Perspective on Cloud Computing)**  
January 21, 2017
- Coding and Computational Thinking in Schools**  
January 18, 2017
- World's Largest Open Access Educational Repository**  
November 28, 2016
- OCR and Canadian Copyright: Essential Facts**  
October 24, 2016
- Google Translate: 30 Missing Software**  
October 11, 2016



## Reflections

### Connie

OER awareness and use continues to develop for both Higher Education and K-12. The potentials for K-12 relate to equity, using participatory technologies for enhancing both teaching and learning, and contributes to the wise spending of public money.

#### Next Steps:

- Publish articles related to the project
- K-12 OER research
- Support K-12 OER awareness, use & advocacy

### Verena

Alberta Teachers, in general, could not identify with the words Open Educational Resources although they were able to give multiple examples of how they use open online content in their classrooms.

#### Next Steps:

- Support awareness of...
- How/why to share resources
- What is CC Licensing
- Attributes of Open Pedagogy
- Focus on process over product



## Questions?

### Contact Information

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