## WCSE Schedule  Wednesday, July 8, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00-9:30</td>
<td>WCSE 2015 Welcome and Opening (MC Rm 110)</td>
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<tr>
<td>9:30-11:30</td>
<td>Maker Faire (sponsored by Pearson Education and the UnLab) (Atrium)</td>
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<tr>
<td>10:30</td>
<td>Refreshment Break (Atrium)</td>
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<tr>
<td>11:30-12:30</td>
<td>Kylie Peppler Keynote (MC Rm 110): Make-to-Learn: Broadening Participation and Deepening Learning Through Making</td>
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<tr>
<td>12:30-2:00</td>
<td>Lunch</td>
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<td>2:30-2:45</td>
<td>Concurrent A</td>
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<tr>
<td>2:45-3:15</td>
<td>Concurrent B</td>
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<tr>
<td>3:15-3:45</td>
<td>Refreshment Break (Atrium)</td>
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<tr>
<td>3:45-5:00</td>
<td>Drop In</td>
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<tr>
<td>5:15-6:30</td>
<td>Poster Session (Atrium)</td>
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### Concurrent A
- **Kaur**
  - "Reflection", and "Do-it-Again (DIA)" approach using discussion forum fosters active learning
- **Dawson**
  - Aligning Assessments as a Process in Program Evaluation
- **Furino**
  - Open Math: Watertown’s Experience
- **O’Beirne-Ryan**
  - Ready, Set, Lead! How and When to Incorporate Aspects of Leadership into Science Courses

### Concurrent B
- **Kales**
  - Determining Real Learning Gains: Measuring retention of factual, procedural and conceptual knowledge after a first year biology class
- **Kajura**
  - Implementing Meaningful Learning Experiences – The IMPACT (Interdisciplinary, Meaningful/ Mentorship, Practice, Applied, Collaborative/Community, Transformatives) Project
- **Ritchie**
  - A Model to Incorporate Meaningful Community Engaged Learning Opportunities into Large Courses.
- **Howard**
  - Shifts in Students Attitudes toward an Integrated Math and Physics Curriculum

### Poster Session (Atrium)
- **Stang**
  - A comparison of co-teaching models in large-scale introductory physics courses
- **Maxwell**
  - An improved design for in-class review based on collaborative, two-stage testing
- **Sabourlin**
  - Does group composition impact group scores in two-stage collaborative exams?
- **Batista-Ng**
  - Flipped design for learning: Deepening scientific inquiry in a large-enrollment class
- **Benoit**
  - Encouraging students to explore the role of self-assessment during learning: fueling the metacognitive cycle of practice and feedback

### Additional Events
- **Presentation**
  - Code: Improving Science Education at the University of British Columbia: The Carl Wieman Science Education Initiative

### Workshop
- **Workshop**
  - EduTech Test Kitchen (Sponsored by Turning Technologies)

### Panel Discussion
- **Panel Discussion**
  - UBC Science Writing Resources for Learning (www.ScWRL.ubc.ca)

### Poster Break
- **Break**
  - hosted by Turning Technologies

### EduTech Test Kitchen
- **Educate Tech Test Kitchen**
  - hosted by Turning Technologies

### Advanced Features—TurningPoint® Cloud:
- What to do next.

### Poster Session (Atrium)
- **Poster Session (Atrium)**

### Panel Discussion
- **Panel Discussion**

### Workshop
- **Workshop**

### Presentation
- **Presentation**

### Plenary
- **Plenary**

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**Notes:**
- Advanced Features—TurningPoint® Cloud: Before, during, and after the lecture. What to do next. hosted by Turning Technologies.
<table>
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<tr>
<td>8:45-9</td>
<td>Opening (MC Rm 110) Simon Bates Plenary (MC Rm 110): Faculty and students as collaborators, co-creators and makers</td>
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<tr>
<td>10:00-10:30</td>
<td>Refreshment Break (Atrium)</td>
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| 10:30-11:45 | Concurrent C  
Brown: The Public Communication of Science as an Integral Component to the Undergraduate Curriculum of Science Students  
Sawirington: A Creative Approach: Teaching Science through Arts-based Learning |
|          | P&A Rm 106  
P&A Rm 34  
P&A Rm 148  
P&A Rm 117 |
|          | Fawcett-Adams: Embedding ethics education in energy systems curriculum: Insights into the course design and learning processes  
McLean: Choose Your Own Adventure: A safe place for students to make mistakes |
|          | Smith: Avida-ED: An artificial life platform for teaching evolutionary principles and the nature of science |
| 11:45-1:00 | Lunch (BBQ Tent?)                                                        |
| 1:00-2:15 | Concurrent D  
Slepkov: The Integrated Testlet: A powerful multiple-choice approach for STEM assessment  
Reid: Reflections From First Time Blended Programming Instructors - Teaching Challenges and Lessons Learned We "flipped" but did it work? |
|          | P&A Rm 106  
P&A Rm 150  
P&A Rm 148  
P&A Rm 117 |
|          | Samson: How to Bring Active Learning to Large Lecture Halls  
Reid: Reimagining the Laboratory Experience: From Model to Simulation  
Jacobs: Hijacking all the courses: a trans-disciplinary learning experience for undergraduate students  
Wilt: Student feedback from beginning to end: a new course evaluation model |
| 2:15-2:30 | Refreshment Break (Atrium)                                                |
| 2:30-3:45 | Concurrent E  
Theodore: Measuring a Student's Approach to Learning  
Rana: Incorporating Guided-Inquiry Learning into the Undergraduate Laboratory  
Stuttford: Improving scaffolding to increase learning in chemistry labs |
|          | P&A Rm 106  
P&A Rm 150  
P&A Rm 148  
P&A Rm 117 |
|          | O’Beirne-Ryan: Quantitative Reasoning: Crossing Thresholds |
|          | Morgan: Sculpting Molecular Systems in Introductory Biology Classes  
Stuttford: How do I get from A to B? |
|          | MacNeil: Use of Learning Task Inventories (LTIs) to Promote Self-Monitoring and Self-Regulation in Introductory Organic Chemistry |
|          | McDonald: Using blogging in a biology graduate course to evaluate learning  
Kaaleskjold: Adventures in flipping a course: how fiscal constraints, student complaints and colleague skepticism helped me achieve my goal |
| 3:45-4:00 | Kimberly Tanner Public Lecture (MC Rm 110): Beyond Assessing Knowledge – Card Sorting, Superheroes, and Moving Towards Measuring Expertise |
| 4:00-5:15 | Black T Banquet (Sponsored by SimBio)  
Launching of WCSE Proceedings (Sponsored by Nelson Education) |
|       | Presentation  
Short & Tweet  
Workshop  
Panel Discussion  
Plenary  
Poster  
Break  
EduTech Test Kitchen (Sponsored by Turning Technologies) |
WCSE Schedule Friday, July 10, 2015

8:45-9:00 Opening (MC Rm 110)
Chris Charles Plenary (MC Rm 110): Education for Innovation

9:00-10:00 UCC Rm 66
Coffee with Speakers (Atrium)

10:00-10:45 Concurrent F
Reid Improving Science Teaching through Peer-Supported Reflective Practice
Gray Annotation Innovation
Kaushik Developing Concept Inventories for Critical Thinking Skills
Wahl PANEL DISCUSSION: Science will large: Experiences in teaching and coordinating large introductory classes, with an emphasis on mathematics.

10:45-12:00 Concurrent G
Thomas Inter-rater Reliability: Armies of Graduate T.A.’s Grading in First Year
Brown Teaching by Example: A Pedagogical Approach to Animal Biology Instruction
Rose Gamification of Physics Education: Enhancing Student Learning With Gamified Online Quizzes
McCurdy Creating and Solidifying Knowledge by Incorporating Feedback into Group-Based, Two-Stage Collaborative Exams

12:00-1:00 Lunch

1:00-3:00 Concurrent G
Kelly A Tale of Two Classes: Student and Instructor Perceptions of Two-Stage Tutorials in Introductory Genetics Classes
Lozinski Effectiveness of PBL Before Lectures on Learning and Retention
Graether How can we make a large class feel like a small one?
Dawson Intention and Perception: Designing questions for online assessments.

3:00-3:30 Concurrent G
TBA
Clemmer Gathering Together: Engaging Students with Remote Access to Live Lectures
Gray-Mitsumune 160 students, 20 groups, 1 TA: transforming a large classroom into a small classroom-like environment.

3:30-3:30 WCSE 2015 Closing (MC Rm 110)
Refreshment for the Road

Presentation Short & Tweet Workshop Panel Discussion Plenary Poster Break EduTech Test Kitchen (Sponsored by Turning Technologies)