

# Canadian Light Source Teachers' Workshop 2019

## DAY ONE - Wednesday July 17<sup>th</sup>

**Welcome & Introductions** 9:00AM – 9:30AM

Education Team

**Synchrotron Background** 9:30AM – 11:00AM

Dr. Robert Blyth – Science Programs Manager

*How does it work? What information does it provide?*

**Break**

**Connecting Machine with Science** 11:15AM – 11:30AM

Tracy Walker – Education Program Lead

*Science Disciplines*

**Science Research Story – Food Security** 11:30AM – 12:30PM

Dr. Karen Tanino – Professor University of Saskatchewan

*Agriculture & Plant Sciences Case Study*

*Synchrotron Techniques Used*

**Lunch**

**Multidisciplinary Connections** 1:00PM – 2:30PM

Tracy Walker – Education Program Lead

*Machine and Science*

*Science and Classroom*

*Activity*

**Break**

**Tour of Facility** 2:45PM – 4:15PM

Education Team

**Group Photo** 4:15PM – 4:30PM

**Group Supper – TBD** 5:00PM – 7:00PM

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## DAY TWO - Thursday July 18<sup>th</sup>

### Food Security on the Beamlines

9:00AM – 10:30AM

### Beamline Focus – Mid IR

Jarvis Stobbs – Associate Scientist, Plant Imaging  
& Burke Barlow – Laboratory Coordinator

*Techniques*

*Beamline Visit*

**Break**

### Beamline Focus – BMIT

10:45AM – 11:45AM

Denise Miller – Beamline Scientist

*Beamline overview*

*Techniques*

*Equipment*

### Classroom Activity

11:45AM – 12:30PM

*BMIT Monochromator*

*Extended possibilities*

**Lunch**

### IDEAS in Action

1:00PM – 4:30PM

Dr. David Muir – IDEAS – Scientist & Education team

*Sample Prep*

*Hands-on Data Collection at IDEAS*

**Break**

*Data Analysis*

*Discussion*

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## DAY THREE - Friday July 19<sup>th</sup>

### **Synchrotron in Physical Science Curriculum** **9:00AM – 10:30AM**

Key Note Speaker – Andrea Regier  
Recipient of the Prime Minister's Award for Teaching Excellence in STEM  
*Shedding Light on Physical Science 20*  
*Infusing Fun into Physical Science*

**Break**

### **Curricular Connections Discussion** **10:30AM – 12:00PM**

Andrea & Tracy  
*Resources*  
*Discussion*

**Lunch**

### **Student on the Beamlines (SotB) Information Session** **1:00PM – 2:00PM**

Education Team  
*What is Student on the Beamlines?*  
*Teacher Roles*  
*Process*

**Break**

### **Let's Make Sense of SotB Education Proposals** **2:15PM – 3:15PM**

Education Team  
*Activity*

### **SotB Poster Competition** **3:15PM – 4:15PM**

Education Team  
*Activity*

### **What Can You Take Away?** **4:15PM – 4:30PM**

Education Team