

Canadian Light Source Teachers' Workshop 2019

DAY ONE - Wednesday July 17th

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 18th

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 19th

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