

## **Session Program**

**7-12 Jun 2020**



**Canadian Association  
of Physicists**

**Association canadienne  
des physiciens et physiciennes**

## **2020 CAP Virtual Sessions / Sessions virtuelle de l'ACP 2020**

### ***DPMB Best Student Oral Presentations***

Virtual Platforms

# Sunday 7 June

13:45

## DPMB Best Student Oral Presentations

Session | Location: Virtual Platforms

13:45-14:00

### The Peculiar Behaviour of Dissolved $^{129}\text{Xe}$ in Low and High Concentrations of Ethanol-Water Mixtures

#### Speaker

Elise Woodward

14:03-14:18

### A novel technique for breast lesion targeting under ultrasound-guidance and positron emission mammography localization

#### Speakers

Claire Park, David Tessier

14:21-14:36

### Study of Tumour Intracellular pH (pHi) in a Rat Model of Glioblastoma Using CEST-MRI

#### Speaker

Ms Maryam Mozaffari

14:39-14:54

### Kinetics of Capture and Translocation in Salt Asymmetry

#### Speaker

Mr Lucas Philipp

14:54-14:59

### BREAK

15:00-15:15

### POSTER - Signal Optimization and Chemometric Analysis of Laser-Induced Breakdown Spectroscopy Bacterial Spectra to Quantify Detection Limits and Improve Classification Accuracy

#### Speakers

Emma Blanchette, Ms Sydney Sleiman

15:18-15:33

### 3D Printed Mouse Bed for Magnetic Resonance Imaging

#### Speaker

Ms Melissa Anderson

15:36-15:51

### High spatial resolution dosimetry using Raman micro-spectroscopy readout of radiochromic films

#### Speaker

Mr Connor McNairn

15:54-16:09

### Characteristic variability of co-regulated genes

#### Speaker

Mr Euan Joly-Smith

16:12-16:27

**Particle Neutron Gamma-X Detection (PNGXD) based localization for ion beam radiotherapy**

**Speaker**

Mr Kurt Van Delinder

16:30