

Session Program

21-26 Jun 2026



**Canadian Association
of Physicists**

**Association canadienne
des physiciens et physiciennes**

2026 CAP Congress / Congrès de l'ACP 2026

DAMOPC Poster Session & Student Poster Competition | Session d'affiches DPAMPC et concours d'affiches étudiantes

U. Ottawa - Learning Crossroads (CRX) Building
100 Louis-Pasteur Private, Ottawa, ON K1N 9N3

Tuesday 23 June

18:00

DAMOPC Poster Session & Student Poster Competition | Session d'affiches DPAMPC et concours d'affiches étudiantes

Poster Session |

Location: U. Ottawa - Learning Crossroads (CRX) Building, 100 Louis-Pasteur Private, Ottawa, ON K1N 9N3

A Large-Scale Programmable Trapped-Ion Quantum Simulator

Speaker

Fabien Lefebvre

In-situ Waveform Sampling in a Reaction Microscope

Speaker

pooya Ghavami

Low-loss nonreciprocal phase-shifting element for cavity applications

Speaker

Jannet Zang

High-Harmonic Generation in a Solid by Quantum States of Light

Speaker

Kous Mandal

Quantum Defect Extrapolations for the Rydberg P-States of Helium and Comparison with Experiment up to $n = 102$

Speakers

Mr Oliver Hallett, Ms Titamarie Maggio, Mr Benjamin Najem

Development of a Field-Deployable Laser System for Canada's First Portable Quantum Gravimeter

Speaker

Owen Doty

Fe:ZnSe MIR Amplifier pumped by 0.4-J laser

Speaker

Fei Xu

A High-Power Picosecond Source For Pumping Mid-Infrared Optical Parametric Amplifiers

Speaker

Chase Geiger

Design of a Barium Ion Quantum Information Processing Testbed

Speaker

Mr Akbar J Jozani

Separating nonlinear orders in pump-probe spectroscopy: the role of signal saturation

Speaker

Federico Gallina

Predicting an Ultrafast Dynamic Refractive Index Grating in an Epsilon-Near-Zero Conductive Oxide Thin Film Created by Femtosecond Laser Pulses**Speaker**

Megan Pulford

Quantum Dam Breaks in Expanding Bose-Einstein Condensates and the Emergence of Dispersive Waves, Double Rainbows, and Black-Hole Horizons**Speaker**

Liam Farrell

Minimalistic framework for photonic unitary transformations**Speaker**

Manuel Ferrer Garcia

Deterministic creation of blue-center single-photon emitters in carbon-doped h-BN**Speaker**

Mr Gaurang Gautam

Singular Value Gadgets for Embedding QUBOs on Rydberg Atom Hardware**Speaker**

Edward García Hernández

Ultrabroadband pulse compression for extreme bandwidth two-dimensional electronic spectroscopy**Speaker**

Jacob Bromberg

Individual Qubit Manipulation Using Dual Acousto-Optic Deflectors in a Trapped Ion Quantum Processor**Speaker**

Sakshee Patil

Voltage-Driven Electro-Spray and Optoelectronic Evaluation of Gadolinium-Doped Zirconium Sulphide Thin Films for Enhanced Optoelectronic Applications**Speaker**

Dr Samuel Oghenemega Shaka

Nanoscale Stress and Magnetic Field Sensing with a Single NV Center in Bulk Diamond utilizing Inverse-Designed Photonic Structures**Speaker**

Pratik Adhikary

19:30