

## **Session Program**

**12-17 Jun 2016**



**2016 CAP Congress / Congrès de l'ACP 2016**

***DCMMP Poster Session with beer / Session  
d'affiches, avec bière DPMCM***

University of Ottawa  
SITE Building, 800 King Edward Ave, Ottawa, ON

## Tuesday 14 June

19:00

### DCMMP Poster Session with beer / Session d'affiches, avec bière DPMCM

**Session** | **Location:** University of Ottawa, SITE Atrium | **Convener:** Giovanni Fanchini

19:00-19:02

**Structure and Dynamics with Ultrafast Electron Microscopes: Watching nano-microstructural evolution during complex crystallization in a-Ge**

**Speaker**

Mark Stern

19:02-19:04

**Photoinduced phase transition in vanadium dioxide: visualizing the time-dependent crystal potential using ultrafast electron diffraction data**

**Speaker**

Laurent René de Cotret

19:04-19:06

**A Phononic Crystal Waveguide for Surface Acoustic Waves**

**Speaker**

Mr Edward Muzar

19:06-19:08

**Phonon Dynamics of Lead Scandium Tantalate**

**Speaker**

Mr Stephen Spencer

19:08-19:10

**Monte Carlo studies of the pseudogap regime in the cuprate superconductors**

**Speaker**

Lauren Hayward Sierens

19:12-19:14

**Intrinsic instability of metal-trihalide perovskite solar cell**

**Speaker**

Mr Chao Zheng

19:14-19:16

**Electron Localization in Group III-V Semiconductor Compound Alloys**

**Speaker**

Christopher Pashartis

19:16-19:18

**Real-space renormalization group approach to the Anderson model**

**Speaker**

Eamonn Campbell

19:18-19:20

**Is SmB6 the topological insulator or not ?**

**Speaker**

Mrs Khawla Elfied

19:20-19:22

**Indirect internuclear coupling in topological insulator Bi<sub>2</sub>Se<sub>3</sub>**

**Speaker**

Chloé Gauvin-Ndiaye

19:22-19:24

**Can gravity stabilize a topological quantum memory at finite temperature?****Speaker**

Thomas Gobeil

19:24-19:26

**Quantum Model for Machine Learning Applications****Speaker**

Bohdan Kulchytskyy

19:26-19:28

**Hydrogen storage properties of TiFe + x%ZrMn<sub>2</sub> (x = 2, 4, 8, 12) alloys****Speaker**

PENG LV

19:30-19:32

**Investigation of effect of ball milling on hydrogen storage properties of 52Ti-12V-36Cr.****Speaker**

Mr Amol Kamble

19:32-19:34

**Hydrogen storage properties of TiFe + Zr alloys****Speaker**

Mr Abhishek Kumar Patel

19:34-19:36

**Investigation of Entropy-Enthalpy Compensation Effect on the Ti-V-Cr system****Speaker**

Ms Viney Dixit

19:36-19:38

**\*\*WITHDRAWN\*\* Study of Mesoporous Silica Hybrid Nanoparticles and their Biocompatibility****Speakers**

Dr Gurinder Kaur Ahluwalia, Dr Mandeep Singh Bakshi

19:38-19:40

**A Computational Analysis of the Application of Skewness and Kurtosis to Corrugated and Abraded Surfaces****Speaker**

Mr Tyler Downey

19:40-19:42

**Investigating the Binding Capabilities of Triazole-Calix[4]arene Functionalized Microcantilever Sensors Towards Heavy Metals in Aqueous Solution****Speaker**

Ms Mona Braim

19:42-19:44

**Surface vacancy mediated pinning of the magnetisation in  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles: A micromagnetic simulation study**

**Speaker**

Mr Bassel Alkadour

19:44-19:46

**Electron spin resonance spectra of strontium aluminate at high microwave fields and strong illumination****Speaker**

ye li

19:46-19:48

**Colossal Permittivity in In + Nb co-doped TiO<sub>2</sub>****Speaker**

Susan Yee

19:48-19:50

**Spin Correlation Functions on Pyrochlore Lattice****Speaker**

chen wei

19:50-19:52

**New room-temperature multiferroic thin films of Ba<sub>2</sub>LnFeNb<sub>4</sub>O<sub>15</sub> (Ln = Eu and Sm) deposited by pulsed laser deposition****Speaker**

Mr Thameur Hajlaoui

19:52-19:54

**Four state ferroelectric memory devices at room temperature****Speaker**

Mr Joyprokash Chakrabartty

19:54-19:56

**\*\* WITHDRAWN\*\* Photocarrier Dynamics in Si and SiGe Nanowires Studied Using Optical-Pump Terahertz-Probe Measurements****Speaker**

Denis Morris

19:56-19:58

**Dynamical polarizability of the pseudospin-1 dice lattice****Speaker**

John Malcolm

19:58-20:00

**Floquet many-body localization transition in the thermodynamic limit****Speaker**

Mr Pedro Ponte

20:00-20:02

**Raman and Infrared Study of Phonons in a Pyrochlore Superconductor****Speaker**

Maureen Reedyk

20:02-20:04

**InGaN/GaN Nanostructures for High Efficiency Solar Cells****Speaker**

Ross Cheriton

22:00