

2017 CAP CONGRESS PROGRAM HIGHLIGHTS

FAITS SAILLANTS DU PROGRAMME DU CONGRÈS DE L'ACP 2017

(Visit <http://www.cap.ca/en/congress/2017> for speakers' abstracts and bios.)

(Visitez le <http://www.cap.ca/fr/congres/2017> pour les résumés et biographies des conférenciers.)

Herzberg Public Lecture

Arthur B. McDonald

Department of Physics, Queen's University "Deep, Dark Questions: Neutrinos and Dark Matter at SNO and SNOLAB" Monday, May 29, 19h30 (the lecture will be preceded by a welcome BBQ for Congress delegates on campus and will be followed by a reception)

Conférence publique Herzberg

Arthur B. McDonald

Département de Physique, Université Queens « Questions sombres et profondes: les neutrinos et la matière sombre au SNO et au SNOLAB » Lundi 29 mai, 19h30 (la conférence sera précédée d'un barbecue de bienvenue pour les délégués du Congrès sur le campus et suivie d'une réception)

Plenary Lecturers

Marcel Franz

Department of Physics and Astronomy at University of British Columbia
Title: From solids with topology to black holes and back
Monday, May 29 at 10h30

Conférenciers pléniers

Marcel Franz

Université de la Colombie Britannique
Titre: La topologie en physique de la matière condensée
Lundi 29 mai à 10h30

Laura Greene (APS President)

Subject: Science Diplomacy
National High Magnetic Field Laboratory at Florida University
Wednesday, May 31 at 17h00

Laura Greene (présidente de l'APS)

Sujet: National High Magnetic Field Laboratory at Florida University
Mercredi 31 mai à 17h00

Cecile Fradin

Department of Physics and Astronomy at McMaster University
Title: On the importance of diffusion in biological systems
Wednesday, May 31 at 17h30

Cecile Fradin

Université McMaster
Titre: L'importance de la diffusion dans les systèmes biologiques
Mercredi 31 mai à 17h30

Jun Ye

Title: Atomic clock based on quantum matter
University of Colorado / NIST
Thursday, June 1st at 9h15

Jun Ye

Titre: Horloge atomique basée sur la matière quantique
Université du Colorado / NIST
Jeudi 1er juin à 9h15

Chris Quigg

Title: Perspectives and Prospects for High Energy Particle Physics
Fermi National Accelerator Laboratory
Thursday, June 1st at 17h30

Chris Quigg

Titre: Perspectives and Prospects for High Energy Particle Physics
Fermi National Accelerator Laboratory
Jeudi 1er juin, 17h30

Congress Highlights

CAP Presidents Report and Annual General Meeting

Tuesday, May 30, 17h30-19h00

Événements spéciaux

Rapport du président de l'ACP et Assemblée générale annuelle

Mardi 30 mai, 17h30-19h00

CEWIP Panel Discussion

Subject: Diversity and Inclusivity within Canadian physics environment
Tuesday, May 30, 13h30-15h00

Professional Practice Development Session

Tuesday, May 30, 19h00-19h45

Poster Session

Wednesday, May 31, 18h00-19h30

Department Leaders Business Meeting

Wednesday, May 31, 19h30

Student-Industry Meet & Mingle

Wednesday, May 31, 19h30

CAP Best Student Oral Competition Finals

Thursday, June 1, 15h30-17h15

Panel de discussion du CEFEP

Sujet: Diversité et Inclusion dans la Physique au Canada
Mardi 30 mai, 13h30-15h00

Session de perfectionnement professionnel

Mardi 30 mai, 19h00-19h45

Session d'affiches

Mercredi 31 mai, 18h00-19h30

Réunion d'affaires des chefs de département

Mercredi 31 mai, 19h30

Rencontre des étudiants et de l'industrie

Mercredi 31 mai, 19h30

Finale de la compétition des présentations orales étudiantes de l'ACP

Jeudi 1er juin, 15h30-17h15

2017 INVITED SPEAKERS / CONFÉRENCIERS INVITÉS 2017

(Invited speakers in joint sessions appear after the individual division lists / La liste des conférenciers invités aux sessions conjointes apparaît après les listes individuelles)

DASP**David Thompson**

Queen's University
Particularities in Geomagnetism and Magnetotellurics

DAMOPC**Gautam Das**

Lakehead University
TBA

Rajibul Islam

University of Waterloo
TBA

Amar Vutha

University of Alberta
TBA

Michal Bajcsy

University of Waterloo
TBA

Kyung Soo Choi

University of Waterloo
Building synthetic quantum systems with atoms and photons

Stephen Hughes

Queen's University
Coupling spin photon emitters to an anisotropic nanophotonic vacuum

Xihua Wang

Alberta University
Micro/nanostructure engineering for light management in thin-film solar cells

Marc Dignam

Queen's University
Third Harmonic Terahertz Generation in Bilayer Graphene

Michael Reimer

Queen's University
Nanoscale source of bright entangled photon pairs

Na Young Kim

University of Waterloo
Dynamical Exciton-polaritons

Samuel Beaulieu

INRS/CNRS
High-order Harmonic Generation and XUV Free Induction Decay from Rydberg Wavepackets

DCMMP**David Cory**

University of Waterloo
CFREF awards in Quantum Matter at the University of Waterloo

Doug Bonn

University of British Columbia
CFREF awards in Quantum Matter at the University of British Columbia

Alexandre Blais

Sherbrooke University
CFREF awards in *Quantum Matter at the Sherbrooke University*

Jeff Sonier

Simon Fraser University
TBA

Bruce Gaulin

McMaster University
TBA

DIAP**Michel Laberge**

General Fusion, Burnaby
Tokamak compression experiments at General Fusion

Valery Radchenko

TRIUMF
Alpha emitters for cancer therapy

Steffon Luoma

Jannatec Technologies, Mining & Metals
Sensors in mining

Louis Archambault

Université Laval
Designing instruments for monitoring radiation doses delivered to living tissues

DPMB**Caroline Boudoux**

Ecole Polytechnique de Montreal
Double-Clad Fiber Couplers – From Laboratory to Market

Michèle Desjardins

University of California
Shedding Light on the Brain: Multimodal Imaging from Two-Photon Microscopy to fMRI-BOLD

Hanna Jankowski

York University
TBA

Gary W. Slater

University of Ottawa
Polymer translocation: some surprising physics learned from Molecular Dynamics Simulations

Carolyn Ren

University of Waterloo
TBA

Cecile Fradin

McMaster University
TBA

William Ryu

University of Toronto
Physics of Behavior: Quantifying and Modelling C. elegans Locomotory Decisions

John Schreiner

Queen's University
TBA

Marc-André Fortin

Université Laval
Gold nanoparticles for dose enhancement in brachytherapy procedures

DNP**Liliana Caballero**

University of Guelph
Neutron star mergers: neutrino emission and nucleosynthesis

Sangyong Jeon

McGill University
Characterizing Quark Gluon Plasma - The hottest and densest matter

Mukut Ranjan Kalita

TRIUMF
Search for a permanent electric dipole moment of the Ra-225 atom

Rituparna Kanungo

Saint Mary's University
Exploring exotic phenomena at the drip-lines with reaction spectroscopy at IRIS

Daniel D. Lascar

TRIUMF
Advances in Mass Measurements at TITAN

Dennis Muecher

University of Guelph
Probing Nuclear Shell Evolution using Radioactive Ion Beams at ISOLDE, CERN

Nicholas Scielzo

Lawrence Livermore National Laboratory
Tests of the electroweak interaction from studies of the beta decay of trapped ^8Li ions (DNP)

Artemisia Spyrou

NSCL, Michigan State University
Constraining neutron capture rates far from stability and astrophysical implications

DPP**Jean-Michel Guay**

University of Ottawa
Paint or not to Paint? That is the plasmonic question...

PPD**Steven Robertson**

McGill University
Status of the Belle II experiment

Guillaume Giroux

Queen's University
Status of the PICO experiment

Thomas Lindner

TRIUMF
Status of the T2K experiment

Gilles Gerbier

Queens University
Status of the NEWS experiment

Wolfgang Rau

Queens University
Status of SuperCDMS/Cute

Emma Kuwertz

University of Victoria
Operation and performance of the ATLAS detector in LHC Run-II

Alain Bellerive

Carleton University
Standard Model and Higgs boson studies with the ATLAS detector

Otilia Ducu

Universite de Montreal
Searches for new physics with the ATLAS detector

Isabel Trigger

TRIUMF
*Upgrades to the ATLAS detector at the LHC
 Pump-probe studies of condensed matter*

JOINT DCMMP-DAMOPC**Luyi Yan**

University of Toronto
 TBA

This list was compiled in early January and is, therefore, incomplete and subject to change. Visit <http://www.cap.ca/en/activities/2017-congress-ottawa/invited-speakers> for the most recent list.

Cette liste a été compilée au début du mois de janvier. Elle est incomplète et sujette à changement. Veuillez visiter <http://www.cap.ca/fr/activities/2017-congress-ottawa/conferenciers-invites>.