

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

DPP-1 : Plasma Physics Symposium

Virtual Platforms

Monday 8 June

10:00

DPP-1 : Plasma Physics Symposium

Session | **Location:** Virtual Platforms | **Convener:** Lenaic Couedel

10:00-10:10 **Welcome and Introduction**

10:10-10:45 **Magnetic Reconnection in Magnetized Hot Plasmas**

Speaker

Dr Magali Muraglia

10:45-11:20 **Dust nucleation in very-low pressure plasmas**

Speaker

Dr Richard Clergereaux

11:20-11:55

Fluctuation dynamo in collisionless and weakly collisional, magnetized plasmas

Speaker

Dr Denis St-Onge

11:55-12:00 **Global-local gyrokinetic simulations of the tokamak pedestal**

Speaker

Denis St-Onge

12:00-12:15 **Break**

12:15-12:35

Advances in N-doped Diamond Thin Films Grown by Microwave Plasma CVD

Speaker

Michael Bradley

12:35-12:55

The spatiotemporal dynamics of a plasma streamer induced by nanosecond discharges at the water surface

Speaker

Mr James Diamond

12:55-13:15

Non-equilibrium nature of argon-based radiofrequency and microwave plasmas at atmospheric pressure evidenced by hyperfine optical emission spectroscopy

Speaker

Mr Francis Labelle

13:15-13:20

Determination of the electrical circuit equivalent to a pulsed discharge in water: assessment of the temporal evolution of electron density and temperature

Speaker

Mr M. Thomas

13:20-13:40

Ultra-high-resolution optical absorption spectroscopy using a supercontinuum laser combined with a widely tunable filter and a hyperfine spectrometer**Speaker**

Antoine Durocher-Jean

13:40-14:00

Break

14:00-14:35

Modification of cellulose-based materials and nanomaterials by cold, atmospheric-pressure plasma treatments**Speaker**

Prof. Luc Stafford

14:35-15:10

Kinetic simulations of electron transport in plasmas relevant for fusion and space applications**Speaker**

Salomon Janhunen

15:10-15:30

Turbulence and anomalous electron transport in the Electron Cyclotron Drift Instability**Speaker**

Ms M. Jimenez

15:30-15:50

A study of the behaviour of dispersed tungsten micro particles in the STOR-M tokamak**Speaker**

Mr Nathan Nelson

15:50-15:55

Plasma Acceleration in the Magnetic Nozzle**Speaker**

Andy Sabo

15:55-16:00

Spatial and time-resolved characterization of HiPIMS spokes**Speaker**

Mr Alex Chang

16:00-16:15

Break

16:15-16:50

Warm dense matter studies using ultrafast optical and extreme ultraviolet laser pulses**Speaker**

Ying Tsui

16:50-17:25

Laser plasma interactions in fusion scale plasmas**Speaker**

Jason Myatt