



UNIVERSITY OF
TORONTO

Fall Symposium of the Canadian Section of the Electrochemical Society

Materials for Renewable Electrochemical Energy Technologies

November 4th 2017

Chernoff Hall, Queen's University,
90 Bader Lane, Kingston, ON K7L 3N6



ECS Canadian Section – Fall Symposium – Program

8:30 - 9:30 – Registration, Poster Setup, Exhibition Setup, Coffee and Continental Breakfast (Chernoff 4th floor)

Morning Session 1 – Chernoff 117 (Chairs – D. Esau and K. Cole)

9:30 - 9:40 – Welcome and Introductory Remarks – Dr. Cynthia Fekken, Associate Vice-Principal (Research), Queen's University

9:40 - 10:10 – *Keynote Lecture* – Prof. Bruno Pollet, Norwegian University of Science and Technology, Trondheim Norway – “Morphological origins of the enhanced durability of a Pt/C electrocatalyst derived from Nafion®-stabilized colloidal Pt nanoparticles**”**

10:10 - 10:30 – Prof. Keryn Lian, University of Toronto – “Sustainable materials for solid supercapacitors**”**

10:30 - 11:00 – *Keynote Lecture* – Mr. Daryl Wilson, President & CEO of Hydrogenics – “Now that we have a place to stand – how about some more levers**”**

11:00 - 11:20 – Prof. Peter Pickup, Memorial University of Newfoundland – “Increasing the efficiency of ethanol oxidation to carbon dioxide in fuel cells**”**

11:20 - 11:40 – Prof. Brad Easton, University of Ontario Institute of Technology – “Shining a light on methanol electro-oxidation**”**

11:40 - 11:45 – *Award* – Presentation of the ECS Canadian Section Lash Miller Award to Dr. Yuriy Mozharivskyj, McMaster University

11:45 - 12:05 – *Award Lecture* – Dr. Yuriy Mozharivskyj, McMaster University – “Solid-State Responsive Materials: Research Driven by Applications**”**

12:05 - 1:15 – Lunch, Networking and Poster Session (Chernoff 4th floor)

Afternoon Session – Chernoff 117 (Chairs S. Tahmasebi & S. Ghobrial)

1:15 - 1:20 – *Award* – Presentation of the ECS Canadian Section Student Award to Ms. Leah D. Ellis, Dalhousie University

1:20 - 1:40 – *Award Lecture* – Ms. Leah D. Ellis, Dalhousie University – **“Changes in Lithium-ion Positive Electrode Surface Chemistry Caused by High Voltage Cycling”**

1:40 - 2:00 – Prof. Steen Schougaard, Université du Québec à Montréal – **“Battery kinetics – a multiscale problem”**

2:00 - 2:20 – Dr. Jun Shu, Cnem Corporation – **“Nickel functions in renewable electrochemical energy technologies”**

2:20 - 2:40 – Prof. Byron Gates, Simon Fraser University – **“Structure to Function Correlations of Electrocatalytic Materials through Tuning their Nano- to Micro-scale Features”**

2:40 - 3:00 – Prof. Daniel Guay, L'Institut national de la recherche scientifique – **“Electrocatalysis on crystallographically well-defined surface alloys”**

3:00 - 3:30 – *Keynote Lecture* – Prof. Christophe Coutanceau, Université de Poitiers, Poitiers, France – **“Electrochemistry in bio-sourced deep eutectic solvents”**

3:30 - 5:00 – Reception, Continuation of the Poster Session, and Industry Showcase

5:00 - 5:30 – Adjournment

Registration information for the symposium and poster session will be available at <http://www.electrochem.ca/>.

Fees: Student/Postdoctoral Fellow → \$ 60 + 13% HST = \$ **67.80**

Other → \$120 + 13% HST = \$ **135.60**

Accepted Payment Method: (1) cheque payable to **Department of Chemistry
Queen's University**

Venue

Chernoff Hall, Queen's University, Kingston. The conference location is highlighted by a red circle in the campus map on the next page.

All oral presentations will be held in room 117 of Chernoff Hall. All other conference activities will occur in the Chernoff Hall's 4th floor lounge.

Getting here/ Parking

Information on parking and directions to the Queen's University Campus are available at <http://www.queensu.ca/about/visit/directions>.

Campus map

<http://www.queensu.ca/campusmap/main> or on the next page.

Hotels

A number of hotels are available within walking distance or a short taxi ride of the Queen's University Main Campus, including:

Confederation Place Hotel

237 Ontario Street, Kingston, ON K7L 2Z4

Tel: 1-613-549-6300 <http://www.confederationplace.com/>

Holiday Inn - Kingston Waterfront

2 Princess Street, Kingston, ON K7L 1A2

Tel: 1-613-549-8400 <http://www.hikingstonwaterfront.com/>

Four Points by Sheraton Kingston

285 King Street E, Kingston, ON K7L 3B1

Tel: 1-613-544-4434 <http://www.fourpointskingston.com/>

Delta Hotels by Marriott Kingston Waterfront

1 Johnson Street, Kingston, ON K7L 5H7

Tel: 1-613-549-8100 <http://www.marriott.com/hotels/travel/ygkdk-delta-hotels-kingston-waterfront/>

Poster Session

Poster presentations will be held in Chernoff's 4th floor lounge during the lunch period and after the afternoon session has completed. The dimensions of the poster must be less than 36" (width) × 48" (length). Posters should be installed upon arrival during the initial registration/breakfast period (8:00 – 8:30 a.m.), and removed immediately following the afternoon poster session (5:00 p.m.).

Those participating in the poster session are asked to submit an abstract using the template that we have provided separately.

