



The Electrochemical Society Inc.
Canadian Section Canadienne

SPRING SYMPOSIUM DU PRINTEMPS

Saturday, April 9th, 2011 /
Samedi, le 9 April 2011

Modern Electrochemistry and Electrocatalysis

Queen's University
Dept. of Chemistry
Chernoff Hall 117
Kingston, Ontario K7L 3N6

Organized by/Organisé par

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Please confirm attendance by / SVP confirmer avant le
April 4, 2011 at/à: gregoryj@chem.queensu.ca

POSTERS / AFFICHES

Those interested in submitting a poster should contact the organizers before **April 4, 2011**. The max. poster dimensions are 45" x 45". There will be prizes for best student posters. Posters from non-students are also welcome. / SVP contacter les organisateurs avant le **4 avril 2011** si vous souhaitez présenter une affiche. Les dimensions des affiches ne doivent pas dépasser 45" x 45". Des prix pour les meilleures affiches étudiantes seront remis.

PROGRAM / PROGRAMME

Symposium Room: Chernoff Hall Room 117

7:45 Registration/Breakfast in Chem. Bldg. Foyer

Morning Session I (Chair: G. Jerkiewicz)

- 8:30 Welcome Address by Steven Liss
VP Research, Queen's University
- 8:40 Gianluigi. Botton (McMaster University)
Application of ultrahigh-resolution electron microscopy on the study of complex catalyst nanoparticles
- 9:10 Elena A. Baranova, T. L. Lomocso (University of Ottawa)
Electrochemical oxidation of ammonia on carbon-supported bi-metallic PtM (M = Ir, Pd, SnOx) nanoparticles
- 9:30 Ian Burgess (University of Saskatchewan)
Synchrotron Infrared Radiation for Electrochemical Reflection Spectroscopy (SIR-ERS): A Case Study using a Simple Redox Probe
- 9:50 D. Malevich, E. Halliop, J. Suryana, B. A. Peppley, J. G. Pharoah, K. Karan (Queen's-RMC Fuel Cell Research Centre)
Measurement of Ionic Resistance in PEM Fuel Cell using Electrochemical Impedance Spectroscopy

10:10 Coffee Break

Morning Session II (Chair: E. Baranova)

- 10:40 D. W Kirk, (University of Toronto)
Influence of Activated Carbon Pore Size on Supercapacitor Performance
- 11:00 E. Bradley Easton (University of Ontario Institute of Technology)
Using Surface Modification as a Route to Fe-N/C Oxygen Reduction Catalysts
- 11:20 M. A. Hossain (Queen's University), K. Cummins, M. P. Soriaga (Texas A&M University)
Digital Deposition of Ultrathin Pd Films on Well-Defined Pt(111) Electrodes via Surface-Limited Redox Replacement Reaction: An Electron Spectroscopy-Electrochemistry Study
- 11:40 Sylvie. Morin, M. K. Saini, S. Zheng (York University), W. Wang (John Hopkins University)
Magneto-Resistance Studies of Electrodeposited Bismuth Thin Films

12:00 Lunch in Chernoff Hall
Fourth Floor Lounge

Afternoon Session (Chair: B. Easton)

- 13:30 *About The Electrochemical Society*
C. Bock, ECS Treasurer
- 13:40 Christina Bock, C. Liang, P. Mercier (National Research Council of Canada)
Preparation and characterization of ordered tetragonal Pt-alloy catalysts for the ORR
- 14:00 Jay Leitch, J. Lipkowski (University of Guelph)
SNIFTIRS study of surface aggregation of SDS – a model anionic surfactant
- 14:20 Christa L. Brosseau, S. G. Harroun, T. Abraham, R. D. Singer (Saint Mary's University)
Portable Electrochemical Surface-Enhanced Raman Spectroscopy on a Shoestring Budget
- 14:40 Gregory Jerkiewicz, M. Alsabet (Queen's University)
Electro-Reduction of Platinum Surface Oxides
- 15:00 **3 min Student Oral Presentations**
(Chair: B. Easton)

Students are encouraged to give a 3-min oral presentation on the subject of their posters. They should contact Dr. Bradley Easton for details.

16:00 **Poster Session / Affiches and Reception in Fourth Floor Lounge, Chernoff Hall**

18:00 **Poster Award Announcement and Adjournment**

REGISTRATION / ENREGISTREMENT

Registration fee will be collected at the meeting (cash or check; no credit cards), and will include the breakfast, coffee, lunch and W & C reception. / Les frais d'enregistrement sont payés le jour du symposium (espèces ou chèque). Ils incluent le déjeuner, café, diner et le vin et fromages.

Membre ECS Member	\$50
Non-membre / Non-membre	\$60
Membre étudiant ECS Student Member	\$20
Étudiant non-membre/Student Non-member	\$30

VENUE

Chernoff Hall (Department of Chemistry) **building 55** on the campus map. Please, use the main (north) entrance at 90 Bader Lane.

TRAVEL DIRECTIONS AND CAMPUS MAP

Travel directions to Queen's University, campus map, and other information can be found at the following links:

Getting here

<http://www.queensu.ca/visit/directions/>

Campus map

<http://www.queensu.ca/campusmap/>

Parking

On-campus parking is free of charge on weekends. Do not use reserved or special parking spots.

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<http://www.kingstoncanada.com/en/makeaconnection/ourismkingston.asp>

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SPECIAL THANKS

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SPONSORS

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