

## Canada Section

The 2012 Fall Symposium of the **Canada Section** was organized by Bill Santos (CANMET Materials Technology Laboratory - NRC) and Li Yan (NOVA Research and Technology Centre). The symposium was held in the Energy Environment Experiential Learning Building at the University of Calgary in November 5, 2011. The theme was "Electrochemistry for Energy and the Environment" and registered



**ALEX BROLO** (right, Chair of the Canada Section of the ECS) presents the 2012 Lash Miller Award to **HOGAN YU**. Photo by Mimoun Elboujdaini



**ALEX BROLO** presented a student travel award to **HAN GAO** (left). Photo by Mimoun Elboujdaini



**ALEX BROLO** presented the 2012 Canada Section student award to **AHMAD GHahremaninezhad** (left). Photo by Mimoun Elboujdaini

over 35 participants (including academic researchers, graduate students, and industry members). The symposium was comprised of morning and afternoon sessions, a poster session, and a wine and cheese reception sponsored by London Scientific. Hogan Yu (Simon Fraser University) delivered the 2012 Lash Miller Award presentation, entitled "Diverted Electrochemistry: Electrical Characterization of Molecularly Modified Silicon Surfaces and Devices," and Ahmad Ghahremaninezhad (UBC) presented the 2012 Canada Student Award

talk on the "Active/passive Dissolution of Chalcopyrite ( $\text{CuFeS}_2$ ) in Sulfuric Acid Solutions." The symposium also had ten additional invited lectures and 18 student posters. Han Gao (University of Toronto) and Amin Nouri (Simon Fraser University) were the student travel award winners. The poster session was followed by a wine and cheese reception sponsored by London Scientific. Two student poster awards were presented to: Jack Kan (University of Calgary) and Han Gao (University of Toronto).

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Organizer **LI YAN** and **BILL SANTOS** (middle) with all the student poster and travel award winners. Photo by Mimoun Elboujdaini

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**Gregory Jerkiewicz** (pictured at left), a Professor in the Department of Chemistry of Queens University, is the recipient of the 2012 R. C. Jacobsen Award of the ECS Canada Section.

The Jacobsen award recognizes significant contributions to the functioning of the Canada Section of the ECS. Dr. Jerkiewicz has provided more than 15 consecutive years of service to the Canada Section, including serving in several

leadership and administrative positions (Treasurer, Vice-Chair, Chair, Past Chair, and Councillor). Furthermore, Dr. Jerkiewicz has been active in organizing various symposia and activities related to the ECS Canada Section. The Jacobsen award will be presented to Dr. Jerkiewicz at the spring meeting of the Canada Section of the ECS in April 2012 in Montréal.

The 2012 Spring symposium of the Canada Section of the ECS will be on April 27 in Montréal. The theme will be: "Electrochemistry and Materials for Clean Energy." The symposium organizers request 1-page contributed abstracts to be

submitted to [guay@emt.inrs.ca](mailto:guay@emt.inrs.ca) by April 12, 2012. Students are especially encouraged to attend this meeting and a limited number of student travel awards will be provided by the Canada Section. Students interested in the travel award should send an application to Alexandre Brolo ([agbrolo@uvic.ca](mailto:agbrolo@uvic.ca)) by April 1, 2012. The required documentation is described at <http://www.electrochem.org/ecs/sections/cana/cana.htm>.

The 2012 fall meeting of the Canada Section of the ECS will be organized by M'hamed Chahma at Laurentian University in Sudbury, ON. Details about the meeting will be available soon.

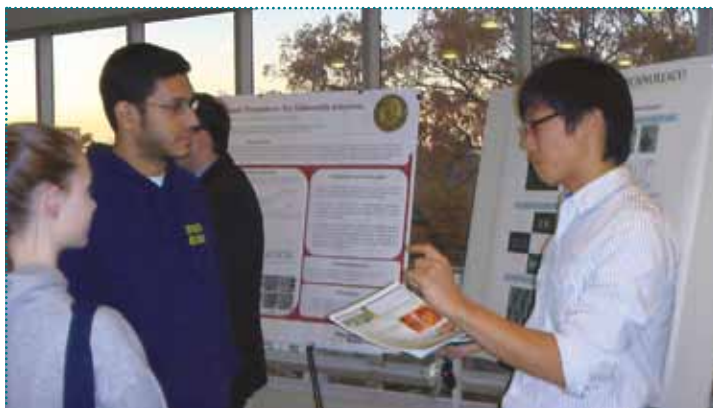
## Georgia Section

The joint ECS **Georgia Section** and Student Chapter meeting was held on November 17, 2011 at the Molecular Sciences and Engineering Building at Georgia Institute of Technology. Fernando Garzon of Los Alamos National Laboratories, and ECS Senior Vice-President, presented a talk on "Micro-Tomographic Imaging of Electrochemical Devices." He spoke about the principles of X-ray tomography and its application to fuel cells, in particular for the determination of reliability and modes of failure. The internal structure of the fuel cell can be imaged without disassembly to observe void formation and investigate the micromechanical effects in the membrane with cyclic operation. In particular, determination of cracks and chemical analysis of the displacement of Pt catalyst were observed within the cathode membrane. He also described artifacts that can be present and indicated how to interpret X-ray tomography images. Dr. Garzon finished his lecture with a discussion of mixed potential zirconia sensors and their applications for monitoring exhaust gas composition.

The Outstanding Student Award of the Georgia Section was presented by Peter Hesketh, Chair of the Georgia Section, to Matthew Lynch for his work on solid oxide fuel cells. The Student Chapter organized the poster session and provided pizza and refreshments to the participants. There were 15 posters presented from students representing three different schools. The best poster award was presented to Brian English from University of Georgia for "Preliminary Work on Electrodeposition of a Photovoltaic Using E-ALD," while a tie for runner up was awarded to Kara Evanoff for "Toward Ultra-Thick Battery Electrodes: Aligned Carbon Nanotube – Enabled Architecture," and Alex Jonke for "Odd-Even Pattern Observed in Polyaniline/(Au0 – Au8) Composites," both from Georgia Tech.



*Presentation of the Outstanding Student Achievement Award of the ECS Georgia Section to **MATTHEW LYNCH** (left) for his work on solid oxide fuel cells by **PETER HESKETH**, Chair of Georgia Section. Lynch's thesis adviser is Meilin Liu from the School of Materials Science and Engineering Georgia Institute of Technology.*



*Graduate students **RICARDO AGUILAR** (center) and **AMBER PIZZO** (left) from Georgia Tech listening to **EZRA KIM** (right) from the Nanotechnology Center describe his poster.*



## Japan Section

The Japan Section has more than 700 ECS active members. Most of them belong concurrently with other electrochemical organizations in Japan such as the Electrochemical Society of Japan, the Japan Society of Applied Physics, the Institute of Electronics, and Information and Communication Engineers. Because the field of electrochemical science and technology is expanding, some members have decided to diversify beyond past professional disciplines. The Japan Section aggressively collaborates with these societies in co-organizing and supporting important conferences. The Japan Section is supportive of ECS co-sponsored international meetings such as AM-FPD'12 and the Nineteenth International Workshop on Active-Matrix Flat Panel Displays and Devices. In addition, the seven local sections and special committees of the Electrochemical Society of Japan co-organize one symposium, one summer school, five sub-section academic meetings and one sub-section award on an ongoing basis. The Japan Section recently updated its bylaws and established its award for supporting and developing young researchers and students who present papers at ECS related meetings. The upcoming PRiME 2012 meeting; a joint meeting of ECS and the Electrochemical Society of Japan is one of the main events to be strongly supported by the Japan Section this year.



*Pictured at a recent committee meeting of the ECS Japan Section (seated from left to right) are: **TAKASHI ITO** (Tokyo Institute of Technology, Chair of the ECS Japan Section), **TETSUYA OSAKA** (Waseda University, ECS Second Vice-President), **TOSHIO FUCHIGAMI** (Tokyo Institute of Technology, Former Chair of the ECS Japan Section). In the back row (from left to right) are: **SHIN-ICHIRO KUROKI** (Tohoku University, Section Secretary and Treasurer of the ECS Japan Section), and **TAKAYUKI HOMMA** (Waseda University, Former Section Secretary of the ECS Japan Section).*

## Korea Section



Young-Woo Lee (pictured at left) received the Student Award of the ECS Korea Section for 2011. Mr. Lee is a PhD candidate at the Soongsil University of the Department of Chemical Engineering, Seoul, Korea. He received his BS degree at the same university in 2009. His current research interest is shape- and structure-controlled synthesis of Pt-based metallic nanocatalysts for electrochemical catalytic reactions in polymer electrolyte membrane fuel cells. His referred journal articles include nine first-authored papers and eleven collaborations in *Chemical Communications*, *Electrochemistry Communications*, *Journal of Power Sources*, *RSC Advances*, and *Physical Chemistry Chemical Physics*, to name a few of the publications.

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