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Canadian Society for Chemistry  
Analytical Chemistry Division  
STUDENT NEWSLETTER

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Fall 2007



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### OTHER BENEFITS OF MEMBERSHIP IN THE ACD (CSC)

In addition to the activities of the particular Student Chapter, membership will confer the following benefits for students:

- Receipt of Canadian Chemical News/ L'Actualité Chimique Canadienne for members in 2nd and higher years (by bulk mail);
- Eligibility to apply for group insurance on car and home insurance through Monnex Inc.;
- Use of the CIC Employment Service for students in the final year of their program who are seeking permanent employment after graduation;
- Substantially reduced registration fees for the annual CSC Conference;
- Full membership in the CSC in the first year after graduation for one-half of the full membership fee.

Eligibility for a range of scholarships and awards, a comprehensive list of which is given in this newsletter.

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### SCIENCE WEBSITES

[www.chemweb.com/](http://www.chemweb.com/)

[www.chemcenter.org](http://www.chemcenter.org)

### FURTHER INFORMATION ON ANALYTICAL CHEMISTRY

ACD Web Page: <http://www.cheminst.ca/division/analytical/>

ACS Graduate Education in Analytical Chemistry:

[http://www.acs-analytical.duq.edu/education\\_information.html](http://www.acs-analytical.duq.edu/education_information.html)

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## Upcoming Conferences TBA

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### ICASS 2008

54th International Conference on Analytical Sciences and Spectroscopy (ICASS 2008) sponsored by The Spectroscopy Society of Canada. St. Anne de Bellevue, Québec, August 3-6, 2008.

For information contact: [bsithole@paprican.ca](mailto:bsithole@paprican.ca)

### CSC 2008 - Edmonton

The 91<sup>st</sup> annual Conference of the Canadian Society for Chemistry is hosted this year by the Department of Chemistry of the University of Alberta. The conference takes place May 24–28, 2008 at the Shaw

Conference Centre. Watch for details at: [www.cheminst.ca](http://www.cheminst.ca). The 2007 site is [www.csc2007.ca](http://www.csc2007.ca)

### Undergraduate Student Conferences - 2008

#### **36<sup>th</sup> Southern Ontario Undergraduate Student Chemistry Conference (SOUSCC)**

Queen's University, March 15, 2008.

Information e-mail: [SOUSCC08@chem.queensu.ca](mailto:SOUSCC08@chem.queensu.ca)

#### **Western Canadian Undergraduate Chemistry Conference (WCUCC)**

University of Manitoba, May 2008.

Information e-mail: [WCUCC2008@gmail.com](mailto:WCUCC2008@gmail.com)

#### **ChemCon (CIC-APICS Atlantic Student Chemistry Conference)**

St. Mary's University, May 2008.

For Information contact Amy Holland: [amyholland1985@gmail.com](mailto:amyholland1985@gmail.com)

#### **Colloque annuel des étudiants et étudiantes de 1er cycle en chimie**

University of Sherbrooke, October 26, 2007.

Information at <http://pages.usherbrooke.ca/colloque-chimie/>

Be sure to watch for more information on these conferences in the coming months.

#### Analytical Chemistry Presentation Awards at undergraduate student conferences

Each of the four regional undergraduate conferences are eligible to receive \$150 for an award for the best oral or poster presentation on a topic related to analytical chemistry. A request from the conference organizers should be made to the ACD Chair, Dr. Robert McLaren ([rmclaren@yorku.ca](mailto:rmclaren@yorku.ca)). Judging is the responsibility of designated faculty members in attendance at the meeting.

# 2007 ANALYTICAL STUDENT AWARD WINNERS

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## 2007 Graduate Student Award In Honor of Walter Harris

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**Russell Algar**, University of Toronto at Mississauga (Ulrich Krull, supervisor)  
Project title: "Towards Multi-Colour Strategies for the Detection of Nucleic Acid Hybridization Using Quantum Dots as Energy Donors in Fluorescence Resonance Energy Transfer (FRET)". Originally from Kitchener, ON, Russell did both his undergrad and M.Sc. degree at the University of Toronto Mississauga, where he is currently working toward his Ph.D. under the supervision of Professor Ulli Krull. His current research interests lie primarily in the area of developing of a surface-based nucleic acid biosensor using quantum dots as energy donors.

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## 2007 Graduate Poster Awards

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**Mike Fogwill** (Kevin Thurbide, supervisor)  
University of Calgary  
"Improvements in Subcritical Water Chromatography"

**Amanda Quirk** (Jacek Lipkowski, supervisor)  
University of Guelph  
"Atomic Force Microscopy Study of the Mechanisms of Cellulose Biodegradation"

**J. Padmanabhan Vivek** (Ian Burgess, supervisor)  
University of Saskatchewan  
"Stability of 4-(Dimethylamino)pyridine Stabilized Gold Colloids in the Presence of Halide Ions and its Electrochemical Evaluation"

**Honourable Mention: Jonathan Benskin** (Jon Martin, supervisor)  
University of Alberta, "Separation and Characterization of Branched Perfluoroalkyl Surfactants, Precursors and Mass Interferences in Human Serum and Standards by LC-MS"

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## 2007 Travel Awards

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**Andrei Drabovich** (Sergey Krylov, supervisor)  
York University

**Adam Ptolemy** (Philip Britz-McKibbin, supervisor)  
McMaster University,

**Josiane P. Lafleur** (Eric Salin, supervisor)  
McGill University,

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## 2007 Undergraduate Poster Awards

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**Gordon Simms** (Alan Doucette, supervisor)  
Dalhousie University  
"Tryptic Digestions in Organic-Aqueous Solutions: An Optimized Solvent System for Proteome Digestion and Analysis by Mass Spectrometry"

**Allison Mah** (Glen Loppnow, supervisor)  
University of Alberta  
"Oxidative DNA Damage: Novel Detection with Molecular Beacons"

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## STUDENT AWARDS

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### ACD Undergraduate Student Travel Award

The intent of the award is to honor outstanding senior undergraduate students in analytical chemistry, to encourage them into postgraduate studies and to expose them to a stimulating scientific environment at the annual Canadian Chemical Conference. The Undergraduate Student Travel awards are open to all undergraduate students pursuing studies in the area of Analytical Chemistry and in attendance of a Canadian University, irrespective of the conference site of a given year. Each winner is expected to give a poster presentation of his/her work at the conference.

An award of \$500 will be made on the basis of the academic excellence and research promise of the nominees. These students will normally have completed a summer research project, or a Co-op term, or a senior year research project, in the area of analytical chemistry. The undergraduate student travel awardees and their supervisors are invited to attend the ACD Award Reception after the Annual General Meeting of the ACD at the annual meeting.

Each University Chemistry Department may nominate one candidate.

For more information concerning this award, contact the ACD chair, Dr. Robert McLaren (rmclaren@yorku.ca).

### ACD Graduate Student Poster Award Edmonton 2008

Graduate students who will be making poster presentations on a subject related to Analytical Chemistry in the ACD poster session are eligible for this award. Only one submission per student is permitted.

An *ad hoc* judging committee will be established prior to the meeting. Committee members will question each candidate and assess the quality of the poster. Two awards of \$150 will be given.

Students that wish to be considered for this award should contact Dr. Robert McLaren (rmclaren@yorku.ca) prior to the conference in May 2008.

### Douglas Ryan Award Walter Harris Award (Graduate Student award)

These prestigious awards, named in honour of two senior and well-known analytical chemists in Canada (Dr. Douglas Ryan of Dalhousie University and Dr. Walter Harris from the University of Alberta) are presented in alternate years to an outstanding senior graduate student in analytical chemistry in Canada. Nominations are solicited from Canadian Universities each fall, by contacting both Chemistry Department Heads and all Professors who are active in research in analytical chemistry. The selection of the recipient is made on the basis of outstanding research contributions and the excellence of the academic record. The recipient of the award, who receives a cash award and framed certificate, is expected to make a presentation at the next annual CSC meeting. The awardee, and supervisor, are invited to attend the ACD Award Reception, normally held after the Annual General Meeting of the ACD at the annual CSC conference.

For more information about this award, contact the Analytical Division chairperson.