THE GOLD STANDARD

Student Newsletter

Analytical Chemistry Division, Canadian Society for Chemistry

Fall 2012

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...And More

The Chemical Institute of Canada's (CIC) Career Services.

- The CIC is the association for all chemical professionals in Canada.

-The CIC provides a unique online job networking resource CareerSite for all chemical professionals and students

http://www.cheminst.ca/careers/

Increase your career opportunities by taking advantage of the CIC Career Services. Access & D Q D G D ¶ V V R O H F K H P L F D O related job site. Opportunities abound! Receive multiple benefits with membership to The Chemical Institute of Canada.

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:

‡ 5 H F H L S W R I & D Q D G L D Q / ¶ $ F W X D O L W p & K L P L T X H & members in 2nd and higher years (by bulk mail);

‡ (O L J L E L O L W \ W R D S S O \ on car and home insurance through Monnex Inc.;

‡ 8 V H R I W K H & , & (P S C R \ P vice for students in the final year of their program who are seeking permanent employment after graduation;

‡ 6 X E V W D Q W L D O O \ U H G X F for the annual CSC Conference;

‡) X O O P H P E H U V K L S L Q W 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.

SCIENCE WEBSITES

www.chemweb.com/
www.chemcenter.org

FURTHER ANALYTICAL CHEMISTRY LINKS

ACD Web Page:

CIC Analytical Division

ACS Division of Analytical Chemistry:

http://www.analyticalsciences.org/

Upcoming Conferences TBA

ICASS 2013

59th International Conference on Analytical Sciences and Spectroscopy (ICASS 2013) sponsored by The Spectroscopy Society of Canada. To be held June 26-28, 2013 in Mont-Tremblant, Québec.
ICASS conference

CSC 2013 – Québec City

The 96th annual Conference of the Canadian Society for Chemistry will be held this year in Québec City. The conference takes place May 26-30, 2013. Watch for further details about the conference at the website: http://www.csc2013.ca/

> Note: Analytical Chemistry Division Annual CSC Dinner Well attended and a tradition for the last couple of decades, the annual dinner for the ACD is held on a suitable night during the CSC Conference at a local restaurant. All students are welcome and typically receive discounted meals. After dinner activities are always a highlight! Keep your ears open for announcements concerning the date and location.

Undergraduate Student Conferences – 2012 - 2013

41st Southern Ontario Undergraduate Student Chemistry Conference (SOUSCC)
University of Windsor, 2013.
Information: http://chem410.cs.uwindsor.ca/Links/index.html

Western Canadian Undergraduate Chemistry Conference (WCUCC)
To be held in May 2013. Location and host to be announced soon.
More Information to Come.

ChemCon (CIC -APICS Atlantic Student Chemist ry Conference)
Memorial University, 6 W - R K Q 2013 1 /
Information: https://twitter.com/ChemCon2013

24E Colloque de Chimie
University of Sherbrooke, October 26, 2012.
Information: 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 $250 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. Mark McDermott (mark.mcdermott@ualberta.ca). Judging is the responsibility of designated faculty members in attendance at the meeting. Organizers should later notify the ACD Chair of the award winners.

2012 ANALYTICAL STUDENT AWARD WINNERS

2012 Graduate Student Award in Honor of Douglas Ryan

Daniel Beach from the University of Guelph (Ph.D. Supervisor: Prof. Wojciech Gabryelski). The title of ' D Q L H O ¶ V D Z D U G S U H V H Q W D W L R Q Z D V ' Non-Target Analysis of Urinary Metabolites by Mass Spectrometry ´ D Q G L W Z D V at the 2012 CSC Meeting in Calgary.

2012 Graduate Poster Awards

Thy Vu , Tufts University (D. Walt, supervisor), ³Development of Digital ELISA for Single Molecule Detection of Breast Cancer Biomarkers ´

Wenmin Y e, University of Alberta (J. Harrison, supervisor), ³The Effect of Order and Disorder in Nanoporous Media on DNA Zone Electrophoresis on Chip ´

Yi Shen , honorable mention, University of Alberta (supervisor - R. Campbell) ³Filter Paper Blot Screening For Fluorescent Protein Based Sensor Development ´

Shereen Elbayamy , honorable mention, University of Alberta (supervisor ±M. McDermott), ³Dependence of Surface Enhanced Raman Scattering of Gold Nanorods on Aspect Ratio ´

2012 Undergraduate Poster Awards

Isaac Jones , University of Alberta (M. Serpe, supervisor), ³Quartz Crystal Microbalance Immobilized Poly (N-Isopropylacrylamide) Microgel-Based Etalons for Glucose ´

Andrew Crowell , Dalhousie University (A. Doucette, supervisor), ³Proteome Purification: The Effect of the Combination of Salt and Acetone on Recovery from Solvent Precipitation ´

ABOUT THE STUDENT AWARDS

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. Mark McDermott (mark.mcdermott@ualberta.ca)

ACD Graduate Student Poster Award Québec 2013

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. Mark McDermott (mark.mcdermott@ualberta.ca) prior to the conference in May 2011.

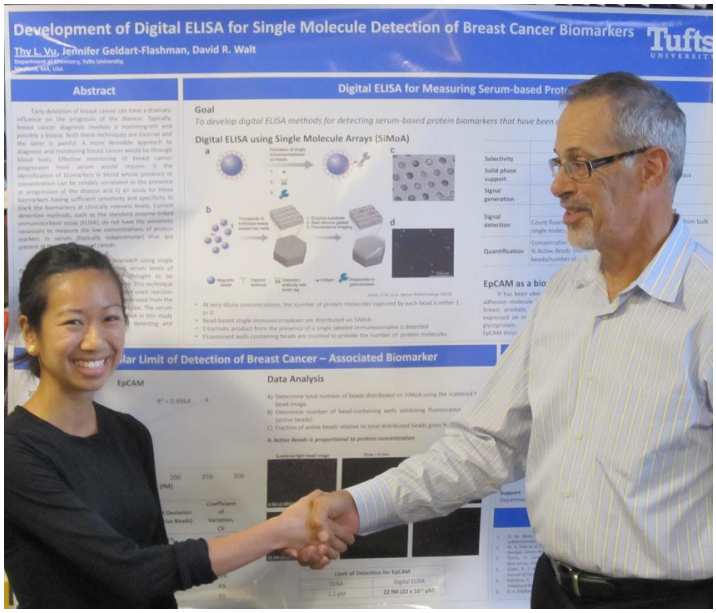
Douglas Ryan Award Walter Harris Award (Graduate Student award)

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.

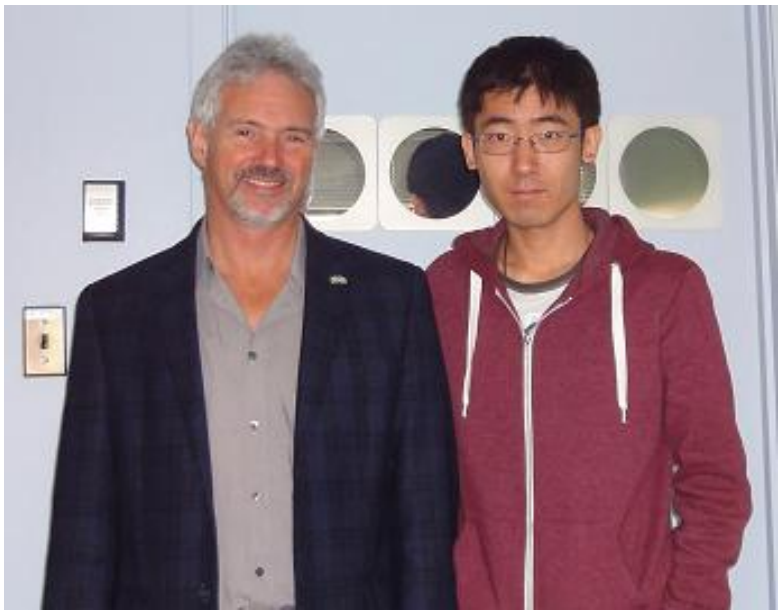
For more information about this award, contact the Analytical Division chairperson.

PHOTO GALLERY

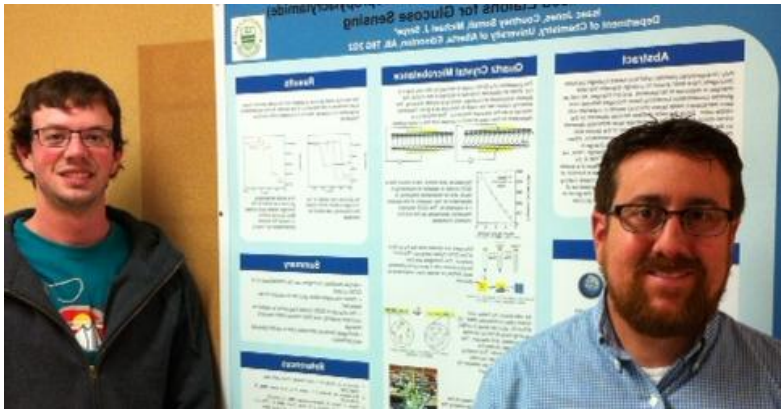
Dr. Janusz Pawlizyn receives the E.W.R. Steacie Award from ACD Vice-Chair, Dr. Ken Yeung.



Dr. David Walt congratulates his student and poster award winner Thy Vu.

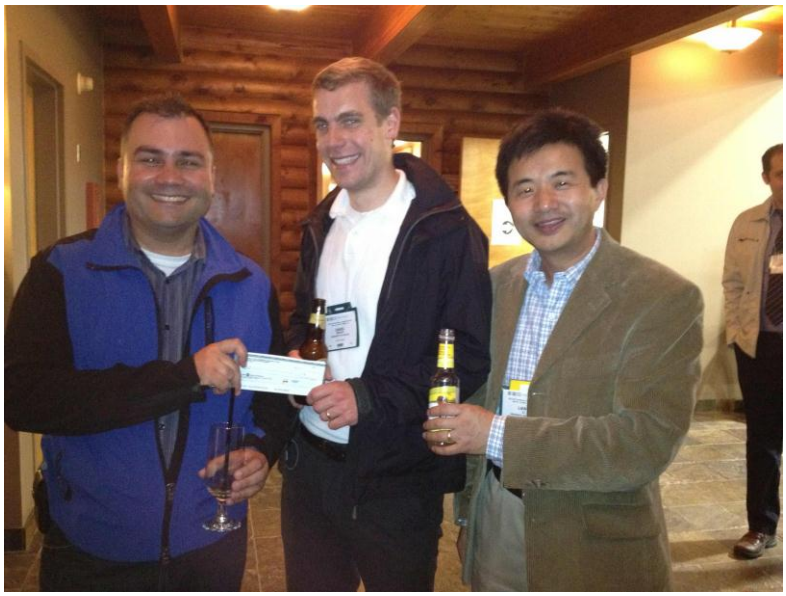


Poster award winner Wenmin Ye with his supervisor, Dr. Jed Harrison.



Isaac Jones by his award winning poster, with supervisor Dr. Michael Serpe

PHOTO GALLERY

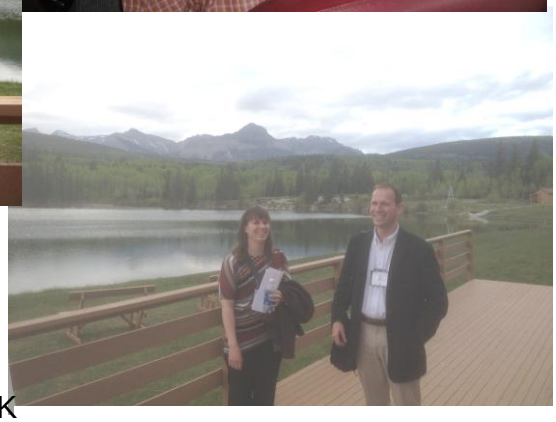


Daniel Beach is presented his Ryan Award prize during the Annual ACD Dinner reception with Dr. Nick Toltl and Dr. Liang Li

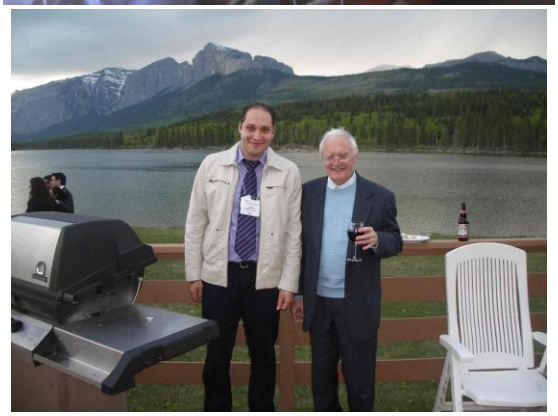
Poster award winner Andrew Crowell is congratulated by his supervisor, Dr. Alan Doucette.

Shereen Elbayamy receives her poster award from supervisor Dr. Mark McDermott

2012 Analytical General Meeting and Dinner



At the 2012 CSC Meeting in Calgary, the Annual General Meeting of the Analytical Division went on the road! We held our $ * 0 P H H W L Q J ³ 2 Q W K drove out to Nakoda Lodge on the Lake at the foot of the Rocky Mountains. A large number of participants enjoyed food, drink, and conversation in the mountain setting and got to have some fun outside of the city. Special thanks to Dr. Nick Toltl and SGS Analtyical Services for supporting the event!



FORMER STUDENT PROFILE: MEET *Dr. Kimberly Kenny*

Title: Forensic Chemist
Company : Royal Canadian Mounted Police
Undergraduate Institution: McGill University
Graduate Institution: University of Alberta
PhD Supervisor: Dr. Charles Lucy

Favorite Memory of Graduate School:
0\ IDYRULWH µWKLQJ¶ DERXW JUDGXDWH VFKRRO ZDV DOO WKI SHRSOH FRQWDFWV WKDW , PHW +RZHYHU P\ IDYRULWH VSH my first paper published in a scientific journal. After having spent so many hours in the lab, it was really rewarding to have all of my hard work recognized.

Hardest Thing After Graduating:
During graduate school, I was entirely focused (for the most part) on one research project. However, once I graduated and found employment in industry, I was in a position in which I was helping several different people on different projects. Changing my focus from a single project to multiple projects was one of the most difficult things for me. However, I have since adapted to this, and I now feel that having several different projects/tasks on the go at the same time is much more rewarding. Another benefit of being busy is that I am never bored at work!

Nicest Thing After Gra duating:
The thing I have enjoyed the most since graduating is speaking to students (at career forums, etc.) about my job. I first became interested in forensics after listening to a guest speaker in one of my introductory chemistry courses, so I welcome any opportunity to pass on my enthusiasm for forensics to current chemistry students.

How I Came to My Current Position:
I became interested in forensics early in my undergraduate career, which is why I decided to pursue a graduate degree in Analytical Chemistry. During my graduate studies, I contacted people working at the RCMP forensic laboratory in Edmonton and made them aware of my LQWHUHVW ,W WRRN VHYHUDO \HDUV EHIRUH µ)RUHQVLF &KH they did, I was contacted and asked to apply. While the process required a lot of patience, it was worth it. Between graduating and starting employment with the RCMP, I worked as a sessional instructor at the University of Alberta and as a research chemist at Syncrude Canada Ltd.

Best Career Advice I Ever Received:
The best career advice I received was to choose a career that I love. I love the work that I do, and I look forward to going to work every morning. This has made it so easy to balance my work and home life ±sin FH , HQMR\ P\ µGD\ MRE¶ , DP LQ JRRG VSLULWV ZKH evenings with my family without thinking about or stressing over work.

Analytical Chemistry Students Should:
Stay informed of new trends in science and engineering ±as an analytical chemist, you will likely be working for engineers or scientists from other disciplines, so any knowledge that you have pertaining to their specific fields of work will be an asset!

"Good morning, class. Today we'll be studying some of the chemicals that three of your desks have been pre-treated with. Put your heads down at your own peril."

Have a suggestion or an item for the next Student Newsletter? Let us know!

e-mail: thurbide@ucalgary.ca