

The Catalyst

Newsletter of the Chemical Institute of Canada Toronto Section Serving the chemical profession in the GTA

Your Executive Committee



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Ravi Ramachandran, Vice Chair Nilima Gandhi, Treasurer Brooke Ozguler, Secretary John Purdy, Past Chair, IYC Chair Mark Vincent, Former Chair Leslie Barton, Former Chair Judith Poë. Bv-laws Chair Demyan Prokopchuk, Website Chair Svetlana Mikhaylichenko, Sci-Fair

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Congratulations to the following **Toronto Section Members who** have won CSC Awards in 2011:

Raymond Kapral, FCIC University of Toronto E.W.R. Steacie Award

André Simpson, MCIC University of Toronto Scarborough W.A.E. McBryde Medal









Annual General Meeting

The CIC Toronto Section Annual General Meeting (AGM) will be held on Wednesday, 11th May 2011 starting at 6pm at Scallywags Restaurant (2nd floor), 11 St. Clair Avenue West, Toronto Followed by a talk on "Vive Nano: A Story in Chemical Entrepreneurship" By Dr. Darren Anderson from Vive Nano (Abstract on 2nd page)

Complimentary (free) food will be provided

Please notify Satyendra Bhavsar (s.bhavsar@utoronto.ca or 416-327-5863) if you plan to attend



CIC Toronto Section announces events in a timely fashion via e-mails. If you are not receiving the e-mails, please send your email address to s.bhavsar@utoronto.ca

Agenda for AGM

6:00 Gathering at Scallywags

6:30 Welcome

6:35 CIC Toronto Section AGM

7:00 Introduction of invited speaker

7:05 Talk by Dr. Darren Anderson, Vive Nano

7:45 Question/Answer & discussion

8:00 Adjournment

Letter from Chair

This is the International Year of Chemistry (IYC) - celebrating achievements of chemistry and its contribution to well being of humankind. Our local section kicked off the IYC in Toronto with an engaging and entertaining talk by Dr. Joe Schwarcz, who has appeared numerous times on The Discovery Channel, CTV, CBC, TV Ontario and Global Television. The event was proclaimed by Mayor Rob Ford as the IYC kick-off in Toronto! A number of other activities are being planned – so stay tuned! You can participate in celebrating IYC through local section and/or many other different events (visit www.chemistry2011.org or www.iyc2011.ca).

During the 2010-11 year, my tenure as the chair, CIC Toronto Section enhanced varieties of activities. We are in a stronger position with a healthy executive committee and a number of other members expressing their interest in serving on the committee. As such, I am confident about even a more successful year after a new committee is elected at the AGM. Please consider attending the AGM (see announcement above) and, if possible, joining the executive committee - there are a number of benefits! For more information, feel free to contact me at s.bhavsar@utoronto.ca.

Satyendra Bhavsar, Ph.D., P.Eng.



CIC Toronto Section (Chemical Institute Of Canada) Checkout our Facebook page for recent event pictures



As part of the IYC events in Laval, a Guinness Record was established for the largest glowstick design representing the molecule of life: H₂O. Here is a link for a video of the event – Enjoy!

www.youtube.com/watch?v=ydeYqjNaFKk

Vive Nano: A Story in Chemical Entrepreneurship

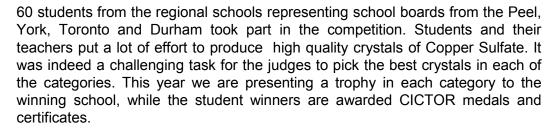
Talk by Dr. Darren Anderson (Vive Nano)

Vive Nano is one of Canada's top nanotechnology companies. We use inorganic nanoparticles to produce novel optical coatings, and polymer nanoparticles to deliver crop protection active ingredients more effectively. In this presentation I will give the history of Vive Nano and a description of the chemistry that we use to do what we do. I will also give some guidance to potential future entrepreneurs in the chemical sciences, as well as tips for new chemists looking to get involved in a young growing company. It is my opinion that future job growth for chemists and chemical engineers will be strongly reliant on high-growth start-up companies, and that everyone in the chemical sciences should be approaching their careers with an entrepreneurial frame of mind.

The talk is organized during the AGM

Crystal Growing Competition - 2010

In this annual competition held during September – December 2010, teams of students from 17 local section high schools grew crystals of Copper Sulfate over five weeks. At the end of the growing period, two crystals from each school were submitted for judging, based on criteria such as crystal clarity, mass and form. Copper Sulfate used to prepare the crystals were donated by Anachemia Science.







Best overall (Top) & Best quality (Bottom) crystals from the CIC Toronto Section Crystal Growing Competition 2010

Toronto Local Section Winners

Category - Best Overall Crystal

Sanjeev Narayanaswamy

- George S. Henry Academy

Category - Best Quality Crystal

Han (Helen) Li, Fang Jun (Lulu) Zhang

- Stephen Leacock Collegiate Institute

Furthermore, we should all be proud that our local section winner, Sanjeev Narayanaswamy from George S. Henry Academy also won third place in the best overall category at the 2010 Canada-Wide Crystal Growing Competition.

Congratulations to George S. Henry Academy teacher, Ms Cathy Roske and her student on this great achievement!



Judges in action. left: Dr. John Purdy, Right Dr. Ravi Ramachandran

Congratulations to all the winners!

Dr. Ravi Ramachandran, Crystal Growing Contest Coordinator, CIC Toronto Section

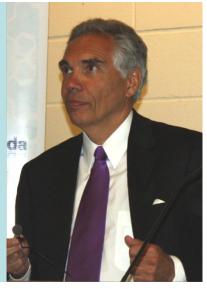
For a listing of all winners and their winning crystals at the national contest, visit: http://www.chemistry.ca/index.php?ci_id=2662&la_id=1

Recent CIC Toronto Events Memories...



Are cows more trustworthy than chemists?

On Friday March 4, 2011, the CIC Toronto section was delighted to present a talk by the renowned Dr. Joe Schwarcz, Director of the Office for Science and Society at McGill University. "Dr. Joe" gave a brilliantly illustrated and hilarious account of some of the misconceptions about chemistry that he has encountered in his work on radio and television and also in everyday life. (The title of the talk originated from a quote by a Columbia University professor who, when asked whether she preferred butter or margarine responded "I would rather trust a cow than a chemist".) After the talk CICtor hosted a wine and cheese reception. The lecture hall at the University of Toronto, where the talk was held, was filled to capacity and there were many faces there that we haven't seen for quite a while – we hope to see them again at CICtor events again in the near future! Many thanks to Syngenta for sponsoring this event.













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The CIC Toronto Section thanks the following companies and organizations for their participation in, and support for, our activities

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Sponsor representatives at the Student Awards Night

From left - James Stevens (Cognis Canada), Dr. Ravi Ramachandran (Syngenta Crop Protection Canada), Dr. John Purdy (Past-Chair, CIC Toronto), Fred Khory (Croda Canada), Prof. Kagan Kerman (Univ of Toronto, Scarborough), Dr. Joanne Wan (CANTOX), Prof. Rob Batey (Univ of Toronto), Dr. Satyendra Bhavsar (Chair, CIC Toronto), Dr. Juris Strautmanis (Univ of Toronto Mississauga)