

Student Awards Luncheon Dîner des prix étudiants 2015



**The Canadian Society for Civil Engineering
La Société canadienne de génie civil**

MESSAGE FROM THE STUDENT AFFAIRS COMMITTEE



Charles-Darwin Annan, PhD, P.Eng., M.CSCE

Chair, CSCE Student Affairs Committee

In the past year, the Student Affairs committee has continued to strengthen the foundation it built in the previous year. With the collaboration of our Student Chapters, our Faculty and Practitioner Advisors and the local CSCE Sections, we have maintained a high level of productive interaction. Our initiatives and programs continue to address many aspects of personal and professional development, such as leadership, self-reliance, goal setting and decision-making, ethical behaviour, interpersonal communication, and teamwork, to complement our academic development.

We have made significant progress in our online student membership registration, and will continue to improve on the process. We are providing more support and resources to help individual Student Chapters kick off their school year and maintain a sense of purpose. We have also increased our support for students participating in the CSCE Capstone competition and the National Student Leaders Workshop, both held during the Annual conference.

In the coming school year, we will continue in our efforts to make student membership benefits more tangible and relevant. We will continue to offer exciting and stimulating programs to provide excellent networking opportunities for students. We will be proactive in engaging our local CSCE Sections in Student Chapter activities and functions. I do encourage our Student Chapter leaders to make contact and work with the leaders of their respective local CSCE Sections. Together, we will work and make our association with CSCE a rewarding experience.

Get involved in your CSCE Student Chapter today and begin those lifelong and valuable professional contacts.

MESSAGE FROM CSCE NATIONAL OFFICE



Amie Therrien, M.Eng.

CSCE Student and Young Professional Program Coordinator

Congratulations to all of the students who took part in one of our national student competitions! They require dedication and commitment and provide ample opportunities to expand your skills beyond the classroom. The CSCE is proud to sponsor these competitions and to recognize the winners in this booklet.

We also take time to recognize the efforts of our student chapters with the President's Award. For many students this is the main interaction with the CSCE and the events hosted by the chapter play a vital role in the organization.

Lastly, there are competitions at the annual conference, including the Student Paper Awards and the Capstone Competition. We will also have the first annual CSCE Steel Bridge Competition in May 2016 so make sure to keep your eyes open for more information about that!

GREAT NORTHERN CONCRETE TOBOGGAN RACE



The Great Northern Concrete Toboggan Race (GNCTR), is an annual student-run competition hosted by a Canadian University each winter. The original idea came from the Alberta chapter of the American Concrete Institute who recognized the need for a winter event in response to the popular Concrete Canoe Race held throughout the United States. The competition includes races on snowy slopes, social events, technical presentations, and of course a lot of spirit!

The 41st edition of GNCTR was hosted by **UBC Okanagan** in Kelowna, British Columbia. Seventeen teams and 429 students from across North America gathered to compete for the CSCE cup.

CONGRATULATIONS TO THE 2015 WINNERS **THE UNIVERSITY OF CALGARY**



Next year's competition will be hosted by the University of Ottawa in Ottawa, ON from January 27 to 31, 2016. If you are interested in being a part of it visit <http://gnctr2016.com/> for more information.

CSCE TROITSKY BRIDGE BUILDING COMPETITION



The CSCE Troitsky Bridge Building competition is held every year at Concordia University in Montreal, Quebec in conjunction with the Concordia Engineering & Computer Science Association. It began in the 1960's when Dr. Michael S. Troitsky, a professor in the Civil Engineering Department had his students build small scale bridge models with wood and glue. In 1984, the first annual bridge building competition was held for Concordia students and has since grown to include teams from across Canada and the United States. The competition consists of bridge building, presentations, bridge crushing, and a whole lot of fun!

This year's event saw over 30 teams from across Canada gather in Montreal to see who would be declared the winner of the CSCE Cup.

CONGRATULATIONS TO THE 2015 WINNERS CÉGEP DE CHICOUTIMI



The 2016 Troitsky competition will be held once again at Concordia in late February or early March. For more information email troitsky@ecaconcordia.ca or visit <http://troitsky.ecaconcordia.ca/>.

CSCE CANADIAN NATIONAL CONCRETE CANOE COMPETITION



The first Canadian National Concrete Canoe Competition (CNCCC) took place in 1994 and has been going strong ever since. It is modeled after the annual concrete canoe competition organized by the American Society of Civil Engineering and is held annually in early May. The competition consists of design presentations, races, and social events.

This year's event took place at the University of Toronto in Toronto, Ontario. Twelve teams from across the country tested their mettle at the Toronto waterfront in Lake Ontario.

CONGRATULATIONS TO THE 2015 WINNERS UNIVERSITÉ LAVAL



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McGill University in Montreal, Quebec will host CNCCC/CNCCB in May 2016. Watch the CSCE website and e-bulletin for more details soon.

CSCE HYDROTECHNICAL ENGINEERING AWARD

This award is presented annually by the CSCE Hydrotechnical Division for the best Masters' thesis in Canada related to hydrotechnical disciplines. The award is sponsored by Golder Associates Ltd. It is intended to recognize an outstanding Masters' thesis that demonstrates high quality research technique, high quality presentation of the work, and relevance to water engineering and water management in Canada.

Congratulations to the 2015 winner, **James Bomhof** of the University of Ottawa for the thesis "Estimating Flow, Hydraulic Geometry, and Hydrokinetic Power at Ungauged Locations in Canada" under the supervision of Dr. Colin D. Rennie.

CSCE CAPSTONE COMPETITION

The CSCE Capstone Competition began in 2013 as a way for senior undergraduate students to showcase their final year, or capstone, project. Each civil engineering program in Canada is able to send one team to represent their school based on their project report. Selected teams are required to distill their project to a poster board and a two minute presentation to be evaluated by industry judges.

The 3rd annual Capstone competition at the CSCE Annual Conference in Regina, SK featured teams from 14 engineering programs from across the country. Winners will be announced at the Student Awards Luncheon and on the CSCE website.

Teams participating in the 2015 Capstone Competition:

- Ryerson University – Highway 400 and 5th Line Interchange
- University of New Brunswick – Garden Creek Gateway
- University of Ottawa – Design of a Liquid Containing Structure with Earthquake Loading in Orleans, ON
- Queen's University – Structural Design of the Stuart Residence at Queen's University
- University of Manitoba – Active Transportation/Bus Rapid Transit Crossing over the Red River
- University of Saskatchewan – North Commuter Parkway Bridge
- Université du Sherbrooke – Ouvrages gonflables sur la rivière Yamaska
- Polytechnique Montreal – Avant-projet d'un aménagement hydroélectrique aux rapides de la Grasse
- Université de Moncton – Conception d'une passerelle reliant l'Édifice de génie au Pavillon Rémi-Rossignol
- University of Waterloo – A Community Centre for Pokhara, Nepal
- Western University – TRIDGE at the Forks of the Thames River
- Carleton University – Alexandria Community Design
- McGill University – Sierra Negra RCC Project Remedial Study
- UBC Okanagan – Ross Street Underpass

CSCE STUDENT PAPER COMPETITION

The CSCE Student Paper Competition is held every year at the CSCE Annual Conference to recognize excellence in student research papers and presentations.

The 2015 competition included over 30 students presenting their papers over the course of the conference in Regina. The winners will be announced at the Student Awards Luncheon at the conference and on the CSCE website.

PRESIDENT'S AWARD FOR THE BEST STUDENT CHAPTER

The President's Award is intended to recognize the most active CSCE Chapters. Submissions are evaluated by the Student Affairs committee and the winners are chosen based on activities and events presented, student engagement, financial stability, goals, and special projects.

This year 22 chapters submitted their annual reports and applications for the President's Award. The Student Affairs committee were very impressed by the accomplishments of this year's chapters and decided to recognize the top three chapters, an honourable mention, and two commendations for chapters who have significantly increased their chapter activity from their previous report.

CONGRATULATIONS TO THE 2015 WINNERS

FIRST PLACE

University of British Columbia



SECOND PLACE

Western University



THIRD PLACE

British Columbia Institute
of Technology



HONOURABLE MENTION

Lakehead University

MOST IMPROVED

Dalhousie University
University of British Columbia Okanagan

PAST WINNERS

GREAT NORTHERN CONCRETE TOBOGGAN RACE

2014	University of Alberta
2013	Western University
2012	Ryerson University
2011	University of Calgary
2010	University of Alberta
2009	University of Manitoba
2008	University of Waterloo
2007	Université de Sherbrooke
2006	Royal Military College of Canada
2005	Carleton University
2004	University of Calgary
2003	University of Manitoba
2002	University of Waterloo
2001	University of British Columbia
2000	University of Calgary
1999	University of Manitoba
1998	University of Waterloo
1997	University of Waterloo
1996	École Polytechnique de Montréal
1995	University of Waterloo
1994	Universität Stuttgart
1993	University of Alberta
1992	Université de Sherbrooke
1991	École de technologie supérieure
1990	École Polytechnique de Montréal
1989	University of Calgary
1988	University of British Columbia
1987	University of British Columbia
1986	Southern Alberta Institute of Technology
1977	University of British Columbia
1975	Southern Alberta Institute of Technology

TROITSKY BRIDGE BUILDING COMPETITION

2014	Cégep de Chicoutimi
2013	Cégep de Chicoutimi

CANADIAN NATIONAL CONCRETE CANOE COMPETITION

2014	Université Laval
2013	Université de Sherbrooke
2012	Université Laval
2011	Université Laval
2010	École de technologie supérieure
2009	École de technologie supérieure
2008	École de technologie supérieure
2007	Université de Sherbrooke
2006	Université de Sherbrooke
2005	Université Laval
2004	Université Laval
2003	Université Laval
2002	Université Laval
2001	Université Laval
2000	Université Laval
1999	École de technologie supérieure
1998	University of Toronto
1997	Université Laval
1996	Université Laval

CSCE HYDROTECHNICAL ENGINEERING AWARD

2014	Peter John Thompson, University of Waterloo
2013	Philippe St-Germain, University of Ottawa
2013	Sandra Proulx-McInnis, Université de Québec
2012	Abdullah Al Mamun, University of British Columbia
2011	Michael Wagner, University of Alberta
2010	Audrey Roy-Poirier, Queen's University
2009	Adam Auckland, University of Ottawa
2008	Bishnu Gautam, University of Saskatchewan
2007	Shoham Ahmad, University of Western Ontario
2006	Vernon Brown, Queen's University
2005	Twyla Hutchison, University of Alberta
2004	Aurelie Goater, University of British Columbia
2003	Veronique M. Morin, University of Alberta

CAPSTONE COMPETITION

2014	Université de Sherbrooke
2013	Carleton University

STUDENT PAPER COMPETITION

2014	Magdy Ibrahim, Concordia University
2013	Taofiq Al-Faesy, University of Ottawa

PRESIDENT'S AWARD FOR THE BEST STUDENT CHAPTER

2013-14	Western University AND British Columbia Institute of Technology
2012-13	University of Western Ontario
2011-12	University of Western Ontario
2010-11	British Columbia Institute of Technology
2009-10	University of Western Ontario
2007-08	Université Laval
2006-07	Université Laval
2005-06	Université Laval
2004-05	Université Laval
2003-04	Université Laval
2002-03	Université Laval
2001-02	University of New Brunswick
2000-01	École de technologie supérieure
1999-00	University of Western Ontario
1998-99	University of New Brunswick
1997-98	University of New Brunswick
1996-97	Lakehead University
1995-96	Université de Sherbrooke
1994-95	University of Western Ontario
1993-94	University of Toronto
1992-93	Université de Sherbrooke
1991-92	École Polytechnique
1990-91	McGill University
1989-90	Université de Sherbrooke
1988-89	University of Calgary & Université Laval
1987-88	University of Calgary
1986-87	Lakehead University
1985-86	University of Toronto
1984-85	Université Laval
1983-84	Lakehead University
1982-83	McGill University