

# MESSAGE FROM THE STUDENT AFFAIRS COMMITTEE



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*Chair, CSCE Student Affairs Committee*

One of CSCE's three Strategic Direction is '**Growing with the Youth**'. The Student Affairs Committee has, in the past few years, supported this strategic initiative by developing new programs and benefits to support students and help stimulate early professional consciousness. We have recorded some significant success, thanks to the hard work and cooperation of our Student Chapters, the contribution of our Faculty and Practitioner Advisors, and the support of CSCE Local Sections. Now, more than ever, our students feel a real sense of belonging to the CSCE.

In the past year, we have succeeded in providing FREE CSCE student membership to all our student members. We continue to improve the process for our online student membership registration, and we will welcome your feedback and suggestions. We also sent out CSCE SWAG packages (stickers, pens, rulers, highlighters) to individual Student Chapters to help kick off the 2016/2017 school year. We encourage you to update us with your current mailing address and contact information so that your Chapter would not miss out.

Student competitions are a great way for students to challenge themselves and apply their knowledge to projects outside the classroom. We are proud to continue to provide support to the various student competitions around the country to provide opportunities to suit different interests and ambitions. Consult the Student Affairs website for more info. And get involved in your CSCE Student Chapter today and let's work together to make CSCE student membership a rewarding experience.

# 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 43rd edition of GNCTR was hosted by University of Manitoba, In Winnipeg, Manitoba. There were 21 teams vying for the CSCE cup. The teams sent 455 competitors assisted by 40 more people involved in the organizing committee and acting as volunteers.

## CONGRATULATIONS TO THE 2017 WINNERS QUEENS UNIVERSITY



Next year's competition will be hosted by the University of Waterloo, in Waterloo, ON from January 24-28. If you are interested in being a part of it visit [gnctr2018.ca](http://gnctr2018.ca) 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 teams from across Canada gather in Montreal to see who would be declared the winner of the CSCE Cup

## CONGRATULATIONS TO THE 2017 WINNERS MCMASTER UNIVERSITY



The 2018 Troitsky competition will be held once again at Concordia in late February or early March. For more information email [troitsky@ecaconcordia.ca](mailto:troitsky@ecaconcordia.ca) or visit <http://troitsky.eaconcordia.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 Laval University in Quebec, Quebec. 14 teams from across the country tested their mettle at the Lac-Sergent, Quebec.

## CONGRATULATIONS TO THE 2017 WINNERS ÉCOLE POLYTECHNIQUE DE MONTRÉAL



The host of the next CNCCC/CNCCB scheduled in May 2018 will be announced soon. Watch the CSCE website and e-bulletin for more details soon.

# CSCE-CISC CANADIAN NATIONAL STEEL BRIDGE COMPETITION



*This year marks the 2nd Canadian National Steel Bridge Competition co-organized by the Canadian Society for Civil Engineers and the Canadian Institute of Steel Construction. It is modeled after the National student steel bridge competition co-organized by the American Institute of Steel Construction and the American Society of Civil Engineers. The teams design a steel bridge by themselves and then build it in a timed competition.*

This year's event took place at Laval University in Quebec, Quebec. 8 teams from across the country competed on the Laval University campus.

## CONGRATULATIONS TO THE 2017 WINNERS ÉCOLE DE TECHNOLOGIE SUPÉRIEURE (ÉTS)



The host of the 2018 edition of CSCE-CISC Canadian National Steel Bridge Competition will be announced soon. Watch the CSCE website and e-bulletin for more details soon.

# 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 5th annual Capstone competition at the CSCE Annual Conference in Vancouver, BC featured teams from 16 engineering programs from across the country. Winners will be announced at the Student Awards Luncheon and on the CSCE website.

## **Teams participating in the 2017 Capstone Competition:**

- The University of Manitoba - Functional Design of PTH 34 and Preliminary Design of New Structure: Bridge over Assiniboine River on PTH 34
- Western University - Multi-Use Pathway Bridge over the Thames River North Branch
- University of New Brunswick - Little Shikatehawk Culvert Replacement
- Ryerson University - MARS Design and Consulting / High-rise Office Building Design Report
- Carleton University - Design of a Net-Zero Energy Tiny House
- Queen's University - Design of a Hospital in Toronto, Ontario
- University of Ottawa - Ottawa Public Library – Centennial Library upgrade
- University of Toronto - Holistic solution of a settlement upgrade of infrastructure as well as natural disaster resilience in Manila, Philippines
- University of Waterloo - Design of Submerged Floating Tunnel across the Strait of Georgia
- BCIT - Arbutus Greenway at 41st Avenue
- University of Saskatchewan - Class II Landfill
- University of Sherbrooke - Analyse et conception d'un tronçon de la ligne aérienne électrique Chamouchouane - Bout-de-L'île, Québec
- University of British Columbia, Okanagan - Cross laminated timber for mid-rise application
- Polytechnique Montréal - Conception d'un campement temporaire de travailleurs
- Université de Moncton - Conception d'un pont sur l'autoroute 11 au Nouveau-Brunswick
- Dalhousie University – 6 Story Wood Building

# 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 2017 competition included 90 students presenting their papers over the course of the conference in Vancouver. The winners will be announced at the Student Awards Luncheon at the conference and on the CSCE website. Prizes will be given for each of the following conferences:

- 15th International Conference on Environmental Engineering
- 23rd Canadian Hydrotechnical Conference
- 6th CSCE/CRC International Construction Specialty Conference
- 6th International Conference on Engineering Mechanics and Materials
- CSCE General Conference

# **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 26 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 2017 WINNERS**

### **FIRST PLACE**

British Columbia Institute of  
Technology (BCIT), Burnaby



### **FIRST PLACE**

University of Waterloo  
Waterloo, ON

**WATERLOO | ENGINEERING**

### **THIRD PLACE**

Western University, London, ON



**Western  
Engineering**

### **HONOURABLE MENTION**

Significant Improvement – Dalhousie University, Halifax, NS  
Consistent Performance – University of New Brunswick, Fredericton, NB

### **SHINING STARTS**

University of Alberta  
University of Regina  
York University  
University of Victoria

## PAST WINNERS

### GREAT NORTHERN CONCRETE TOBOGGAN RACE

2016	Western University
2015	University of Alberta
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

2016	McMaster University
2015	Cégep de Chicoutimi
2014	Cégep de Chicoutimi
2013	Cégep de Chicoutimi

### CANADIAN NATIONAL CONCRETE CANOE COMPETITION

2016	École de technologie supérieure
2015	Université Laval
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

### CSCC-CISC CANADIAN NATIONAL STEEL BRIDGE COMPETITION

2016	École de technologie supérieure
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### CSCC HYDROTECHNICAL ENGINEERING AWARD

2016	Bryan Adam, Marriner, University of Alberta
2015	James Bomhof, University of Ottawa
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

2016	Carleton University
2015	École Polytechnique
2014	Université de Sherbrooke
2013	Carleton University

### STUDENT PAPER COMPETITION

2016	Mohammad Moravvej
2015	Nathan Bruce
2014	Magdy Ibrahim, Concordia University
2013	Taofig Al-Faesly, University of Ottawa

### PRESIDENT'S AWARD FOR THE BEST STUDENT CHAPTER

2015-16	British Columbia Institute of Technology
2014-15	University of British Columbia, Vancouver
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