

2016/2017 ITE McMaster Annual Report





President's Message

2016-2017 was the inaugural year of ITE McMaster (ITE-Mac) as an officially ratified student chapter and we are pleased to serve as Co-Presidents for this term. To conclude our time as undergraduates, we are proud of how far the group has come and have an optimistic outlook of what the student chapter will become. The possibility for growth not only as an extracurricular group but within the undergraduate program itself, will ultimately allow McMaster students to participate in the long awaited development of the transportation industry in the Greater Toronto Hamilton Region.

Building on the interest garnered in Winter 2016, ITE McMaster had ambitious plans for this year. We organized an array of activities to gauge what students were interested in, and the year culminated with the hosting of the 9th annual South Western Ontario Student Presentation Competition. The opportunity to host the regional student competition in our inaugural year solidified our commitment to capturing student interest in the field so drastically under-represented in the McMaster Engineering undergraduate program. Our growing student chapter proved one thing, although we came from humble beginnings, we are small and MIT-E!

Our vision for the student chapter includes attendance at the 2017 Joint ITE/CITE Annual Meeting in Toronto, where our chapter will hopefully emerge victorious in the CITE Traffic Bowl. In the coming academic year, the student chapter will continue to grow through collaboration with other ITE chapters and Civil Engineering clubs within McMaster. We are hopeful that continued expansion of the student chapter here at McMaster will demonstrate to the Faculty that there is significant interest in this field, and will warrant the addition of new faculty and transportation related courses. Furthermore, the Student Chapter will attempt to connect with the McMaster Institute for Transportation and Logistics to provide students with additional resources and opportunities for learning and development.

Efficient and effective transportation will be a cornerstone to the continued growth and densification of the Greater Toronto and Hamilton Region, and it is the responsibility of ITE-Mac to ensure that McMaster students are capable of playing a leading role. We are confident the success of the student chapter will continue, and it has been our pleasure to serve as the Chapter's Presidents,

Your's Sincerely

Allister Aresta & Kyle Doucette
ITE-Mac Student Chapter Co-Presidents 2016-2017

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1. Introduction

The end of this academic year marks the first full year that McMaster has been an official ITE Student Chapter! The student chapter was conceptualized in January 2016 and was officially recognized as ITE student chapter in November 2016. From enlisting as an official McMaster Student Club and becoming affiliated with the McMaster Engineering Society, the executive committee went through many hurdles to become established. With ITE-Mac hosting the university's first transportation related events in recent years and bringing the importance of transportation back to McMaster (after a decade long transportation hiatus), the chapter has had an astounding first year. Events ranged from speaker nights given by industry experts, Synchro transportation software workshops, a collaborative speaker night with other groups at McMaster and hosting the Annual CITE Student Presentation Competition & Industry Fair.

The student community that McMaster has fostered both online and at these events is remarkable. The ITE-Mac student group and page on Facebook has upwards of 60 members, with members frequently posting industry news and events pertaining to ITE. With this academic year being the first year of ITE-Mac's official activity, the chapter has big plans in terms of events and student engagement initiatives for next year.

The annual report is organized into the following sections: the executive committee, an overview of the chapter's events, the chapter's initiatives in liaising with ITE and the financial report.

2. Executive Committee

The ITE-Mac student chapter for the 2016-2017 year was made up of two Co-Presidents, a Vice-President Administration, a Vice-President Finance, an External Director and two year representative roles. The roles for the ITE-Mac differ from the conventional roles as per the *Student Chapter Manual* however require the same level of influence for the chapter's activities. The chapter primarily consists of civil engineering undergraduate students, looking to gain notoriety and membership in other faculties and clubs within McMaster. With the impending growth of ITE-Mac in the coming years, we are confident that membership will vary in faculty and in the undergraduate and graduate level in the coming years.

Co-Presidents:

Allister Aresta & Kyle Doucette
Undergraduate Students
4th Year Civil Engineering
arestaag@mcmaster.ca & [doucek3@mcmaster.ca](mailto:douceck3@mcmaster.ca)

Vice-President Administration:

Anastasia Soukhov
Undergraduate Student
3rd Year Civil Engineering and Society
soukhoa@mcmaster.ca

Vice-President Finance:

Joe Dominicis
Undergraduate Student
3rd Year Civil Engineering
dominja@mcmaster.ca

External Director:

Stanley Phung
Undergraduate Student
3rd Year Civil Engineering
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Year Representatives:

Michelle Woo and Rebecca Lariviere
Undergraduate Students
2nd Year Civil Engineering
woom3@mcmaster.ca & larivirk@mcmaster.ca

3. Chapter Initiatives

3.1. Winter Semester: ITE-Mac's First Transportation Talk

February 9th, 2016.

McMaster University, Hamilton, ON.

The event had a large turnout over 30 students and the following guest speakers: Pedram Izadpanah, Ph.D. P.Eng, John Trickett, EIT, and Chris Giggins, Ph.D. Pedram is the Senior Project Manager at CIMA+ and spoke about CITE and their culture as well as the projects he has done at CIMA+ as examples of types of jobs a private transportation firm would do. John spoke about his experience as an E.I.T. Junior Project Coordinator at the Capital Projects Group with Metrolinx. Chris spoke on his research at McMaster university which focused on urban planning and his experience with the McMaster Institute of Transportation and Logistics (MITL).

The students who attended the event were very receptive to the guests, stayed to network and asked plenty of questions during the Q&A. An email sign-up was passed around to encourage signing up for ITE Student Memberships. All in all, this was the first event that ITE-Mac hosted, and it was a remarkable success!



3.2. Traffic Bowl Trivia Session

May 2016.

Sandford Fleming Building, Toronto, ON

The University of Toronto ITE student chapter hosted a traffic bowl trivia session that had two students from the ITE-Mac attend Allister and Joe. The event had students in attendance from University of Toronto, Ryerson University, Mohawk College, University of Waterloo attend.

The event was very competitive and our chapter took the prize in our first competition. This event was preparation for our chapter to attend the 2017 ITE/CITE Annual Meeting traffic bowl competition.



3.3. Synchro Tutorial

October 5, 2016

McMaster University, Hamilton, ON

The ITE-Mac hosted a Synchro tutorial taught by co-presidents Kyle Doucette and Allister Aresta.

Synchro is a traffic modeling tool used in the industry to optimize current traffic situations. Using the software, traffic networks can be modeled to determine the cause of existing delay and what can be done to keep people moving. The event was geared towards junior students interested in transportation engineering that wanted to get a head start at learning the software.

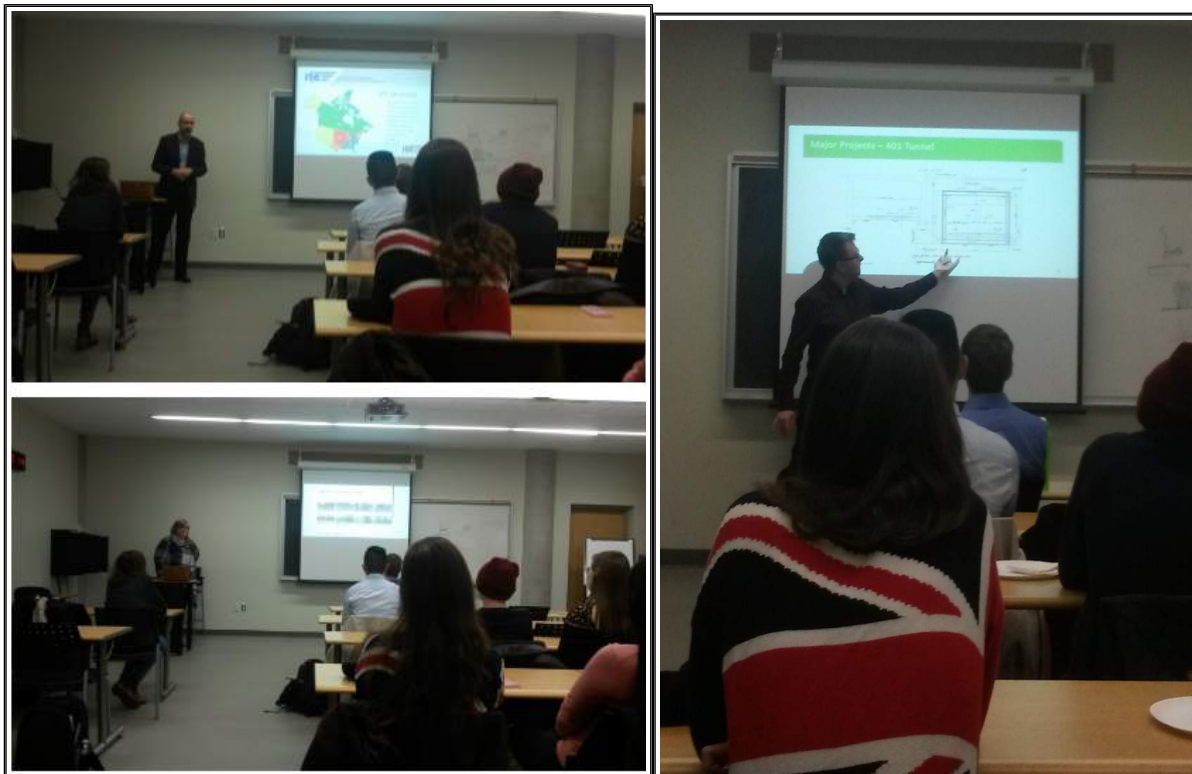
3.4. Fall Semester: Transportation Talk II

November 23rd, 2016

McMaster University, Hamilton, ON.

This event was hosted in order to showcase private, public and academic opportunities in the field for student interested in transportation engineering. The event included speeches from three guest speakers: Edward Soldo P. Eng, Danielle Bury, and back by popular demand- John Trickett P.Eng. Edward spoke on his involvement as the Director of Roads and Transportation for the City of London and about his role as CITE Vice President. Danielle spoke as the senior project manager for the City of Hamilton and about her role in the LRT development. John spoke on his experience and projects all over Ontario with the junior project group at Metrolinx.

The students that attended were engaged, networked with the professionals and asked plenty of insightful questions. The second transportation talk that ITE-Mac hosted was also a success!



3.5. 1st Annual McMaster CSCE Student Chapter Civil Night

February 2, 2017

McMaster University, Hamilton, ON.

The McMaster CSCE Student Chapter invited other Civil Engineering student chapters to participate in the “1st Annual Civil Night”. The inaugural event was held in collaboration with the McMaster Student Chapters of CSCE, ITE and WEAO. The primary focus of this event was to offer a broad variety of guest presentations to students within the faculty of civil engineering. Uniting the student chapters to co-host this event resulted in a significantly larger turnout than the groups were capable of generating individually, and provided a valuable learning experience to students.

Brian Malone, a founder of the South-Western Ontario branch of CIMA+ attended at the request of the ITE Student Chapter. His presentation focused on the various career opportunities within the field of transportation and he offered his personal advice to undergraduates for finding a career, figuring out where your interests lie, and starting your life post-graduation.

The opportunity to participate in a joint student chapter event increased the visibility of the Student Chapter within the McMaster Engineering community and informed students of the benefits and opportunities within the field of transportation. Following the successful completion of the inaugural event, the McMaster ITE Chapter is fully committed to ensuring this event is repeated in the future.



3.6. Ninth Annual South-Western Ontario Student Presentation Competition and Industry Fair

March 2, 2017

McMaster University, Hamilton, ON.

ITE-Mac hosted a job fair which had transportation company professionals come and network with students to discuss possible opportunities in the field. The companies that came out were CIMA+, Paradigm and LEA Consulting with representatives from each company hosting a booth. The event was successful in bringing about an open environment where students could mingle among professionals and the student chapter membership.



Following the job fair ITE-Mac hosted the Ninth Annual South-Western Ontario Student Presentation Competition that had graduate and undergraduate students in their respective categories present relevant transportation topics happening in Canada. This unique event organized annually by the Canadian Institute of Transportation Engineers (CITE) to help foster interest in the field of transportation. The Toronto and Hamilton sections have jointly held the event since 1996 and were joined by the Southwest Ontario section in 2009. The competition offered students an opportunity to present a topic of interest in transportation before their peers and practising transportation professionals, giving out prizes to the presenters.

The judges for the competition were Jason Dahl (Communications Coordinator for ITE Toronto), Sean Nix (Student Liaison for the ITE Hamilton Section) and Maged Elmadhoon (President of the ITE Southwestern Ontario Section). For the undergraduate division the speakers were Mackenzie de Carle (University of Toronto), Derek Napoli (Mohawk College) and Anastasia Soukhov (McMaster University). For the graduate division the speakers were Umair Durrani (University of Windsor), Maria Espinosa (Ryerson University) and Wade Genders (McMaster University).

The event was successful in presenting a wide range of topics in developing transportation program UI, autonomous vehicle modeling, bluetooth detectors and overall urban development. In the undergraduate division Mackenzie took first place, followed by Derek in second and Anastasia in 3rd. In the graduate division Wade took home first place, followed by Maria in second and Umair in third. Appreciation goes out to all the participants and judges for making the event a great night and a huge success.



4. Chapter Liaison with CITE

4.1. ITE Hamilton Semi-Annual Luncheon

Local section activities, including the semi-annual luncheons allow the student chapter to improve the visibility of the McMaster group, and connect with members of industry. As the McMaster Chapter was founded on the basis of addressing a disconnect between the undergraduate programs limited options in transportation, attending speaker events allows McMaster students to be aware of the work being done in Ontario and across the country, and encourage them to pursue further study.

Topic: Hamilton Light Rail Transit (LRT) Project
October 25 2016
Grand Olympia Hotel, Hamilton, ON.

On behalf of the McMaster ITE Student Chapter, Co-President Allister Aresta attended the Hamilton Section October Luncheon. The presentation informed of the coming LRT system coming to Hamilton discussing the selected alignment and technology, early concept designs, and next steps for implementation. Danielle Bury, the Senior Project Manager for the LRT Planning, discussed the traffic modeling and construction setbacks, beneficial for learning the process of construction in public infrastructure.

Topic: Connected and Autonomous Vehicles
December 8 2016
Grand Olympia Hotel, Hamilton, ON.

On behalf of the McMaster ITE Student Chapter, Co-President Kyle Doucette attended the Hamilton Section December Luncheon. During this event, Kyle had the opportunity to network with EIT's, senior engineers and technicians. The presentation provided an overview of the past, present and future Canadian developments relating to the development, testing and eventual introduction of connected and autonomous vehicles, and highlighted the efforts being made to attract this industry to Ontario. The speaker was Mike Barnett of CIMA+.

Topic: Active Transportation as Disease Prevention
February 22, 2017
Grand Olympia Hotel, Hamilton, ON.

Co-President Allister Aresta attended the Hamilton Section February Luncheon. The presentation was done by Dr. Mowhat and was on how changes in patterns of physical activity are related to trends in common chronic diseases. He discussed how efforts to increase physical activity have fallen flat, and how providing environments which support active transportation can have a trans-formative effect. The event provided networking opportunities with transportation professionals for the student chapter.

5. 2016-17 ITE McMaster Student Chapter Membership

Last Name	First Name	ITE Membership?
Aresta	Allister	Y
Brown	Levi Jesse	
Dominicis	Joseph	Y
Doucette	Kyle	Y
Ehrentraud	Cameron	
Genyk-Berezowsky	Paul	
Ishack	Sayyad	
Lariviere	Rebecca	
Macanowicz	Zachary	
Mosdell	Cedric	
Oyenubi	Desola	
Phung	Stanley	Y
Pilla	Angelo	Y
Shim	Hana	
Soukhov	Anastasia	Y
Woo	Michelle	

6. Finances

2016-17 Financial Statement		
Opening Balance - April 1, 2016		\$ 221.00
Income	McMaster Student Union Funding (Term 1)	\$ 133.60
Total Income		\$ 133.60
Expenses	Advertisement	\$ 40.28
	Transportation Talk Speaker Night	\$ 113.48
	Refreshments	\$ 40.00
	Banking Fees	\$ 36.00
	Industry Fair/Student Presentation	\$ 11.24
Total Expenses		\$ 241.00
Closing Balance - March 31, 2016		\$ 113.60

7. Social Media

ITE-Mac uses social media to help keep in touch with its members. Along with operating a Facebook group for McMaster students, the chapter also started a Facebook page, @ITEMcMaster. Events and transportation engineering news are posted on this page to keep the chapter's followers connected.

The chapter uses its e-mail, itemac@mcmaster.ca, to send out alerts to all members on its e-mail list. Students are encouraged to sign up to the e-mail list at the beginning of the year, or contact the chapter at any time.