



**Presentation of Sherbrooke student chapter**

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For its activities, the ACI Sherbrooke student chapter is supported by:



**ACI Student Forum, ACI Fall Convention, October 16, 2017, Anaheim**



**Introduction**



ACI Sherbrooke is a student chapter of the American Concrete Institute (ACI) at the University of Sherbrooke.

**Objectives of the Student chapter**

1. To encourage exchanges between students and professionals
2. To participate in promoting the Université de Sherbrooke
3. To promote the visibility of the research in the field of concrete structures and cementitious materials



## Introduction



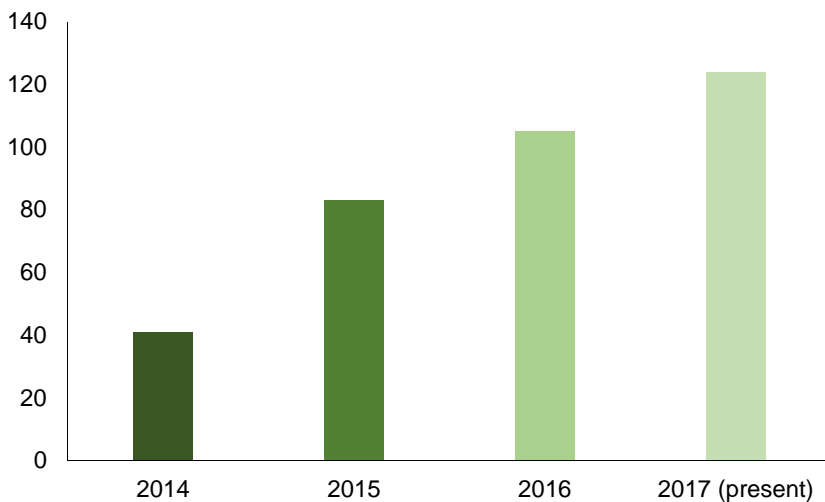
ACI Sherbrooke is a student chapter of the American Concrete Institute (ACI) at the University of Sherbrooke.

### Objectives of the Student chapter

- I. To participate in various student competitions organized by the ACI in North America
- II. Promoting ACI Sherbrooke student chapter activities



## Membership



This non-profit student section has 124 graduate and undergraduate members.

### In full growth

- 45% Bachelor students
- 24% M.Sc. Students
- 21% Ph.D. Students
- 10% others



## Executive members



The executive board is composed of:

- A president,
- A Treasurer,
- A Secretary,
- A communication VP
- Representatives of research group



## Activities



### Technical and educational presentations

Invited speakers from different communities: Other universities, industry, consultants, designing.

### Technical visits

Construction sites, industrial concrete projects, and cement and concrete plants.

### Competitions

Student competitions for graduate and undergrad students such as: Eco concrete, quad chart, and photography.

### ACI Conventions

Organizing trips for students to participate in ACI competitions and talk about their research projects



## Lectures and networking events



Since 2014, the ACI Sherbrooke student chapter has offered to its members:

- 30 presentation
- 7 technical visits
- 4 ACI conventions
  - Washington, F2014
  - Philadelphia, F2016
  - Detroit, W2017
  - Anaheim, F2017



## Quad chart competition (Published in *Concrete International*, September 2017)

ACI Sherbrooke  
Section étudiante / Student chapter

PRÉSENTE

**Le Défi des Quadrants**  
Quadchart Competition  
2ème édition

Venez présenter votre projet en 5 minutes!

MERCREDI  
**24**  
MAI  
18h00

Prix du public  
100\$

Prix du jury  
100\$

au Siboire Jacques-Cartier

→ UNE PETITE BOISSON SERA OFFERTE POUR LES MEMBRES INSCRITES →

Inscription 15/05/2017      Envoie des Quadrants 22/05/2017

ACI@USHERBROOKE.CA



Talking about your research project for 5 minutes on one slide that is divided to four sections.



The second version was held on May 24, 2017 at the Siboire Jacques-Cartier and 36 people were present including 11 competitors.





## EcoConcrete Student Competition (Anaheim 2017)

Developed by Sherbrooke Student chapter

A two-year project and collaboration of 19 students



### Outline

- To promote the idea of environmental performance in concrete mix design as an important aspect of sustainability.
- To develop an innovative concrete mixture, with the lowest environmental impacts while maintaining maximum mechanical and durability performance.
- To seek out and use local sources of concrete materials (SCMs, ASCMs, recycled aggregates, etc.)



## ACI Conventions

PHILADELPHIA A2016



### Philadelphia Autumn 2016

- ACI Sherbrooke student chapter delegation consisted of 13 students.
- 6 students presented their research studies (5 oral and 1 poster).



## 10th ACI/RILEM INTERNATIONAL CONFERENCE ON CEMENTITIOUS MATERIALS AND ALTERNATIVE BINDERS FOR SUSTAINABLE CONCRETE

Montreal 2017



### ACI/RILEM Conference

- Sherbrooke chapter members mainly assisted in moderating more than 24 sessions, organizing tours, and conference documents.
- 9 members presented their research studies.



## Photo Contest, First Version

ACI Sherbrooke  
Section étudiante / Student chapter

PRÉSENTE

Catégories:  
Œuvre architecturale en béton    Détérioration d'un ouvrage en béton    Béton en laboratoire

Concours de  
**PHOTOGRAPHIE**    4 Prix de \$100

Date limite: 4 Novembre  
Plus info:  
fb.me/ACIsherbrooke, ACI@USHERBROOKE.CA

To promote civil engineering work in concrete and stimulate the creativity of students at the University de Sherbrooke.

### Categories:

Architectural Concrete

Concrete Deterioration

Concrete in laboratory



## Student competitions



### Denver Automne 2015

Eight undergraduate students and ACI Sherbrooke members competed in the student competition;

#### Pervious concrete cylinder competition

The delegation finished 13th out of a total of 49 participating teams.



## Student competitions



### Philadelphia Automne 2016

For undergraduate students who competed in the student competition;

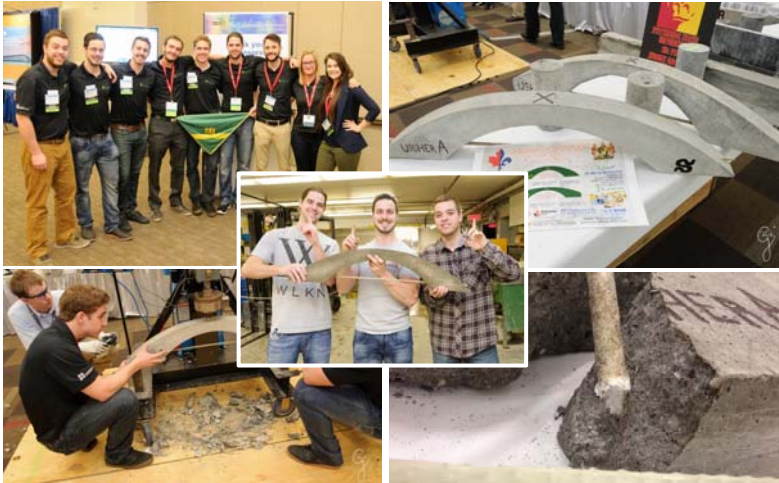
#### Mortar workability

The delegation finished 10th out of a total of 48 participating teams.





## Student competitions



### Kansas City Winter 2015 and Detroit Winter 2017

At the ACI convention undergraduate students and members of Sherbrooke chapter participated in the student competition,

### FRP Composite Competition

One of the teams from the Université de Sherbrooke delegation finished 6th out of a total of 11 teams.



The ACI Sherbrooke Student chapter thanks you for your attention.

