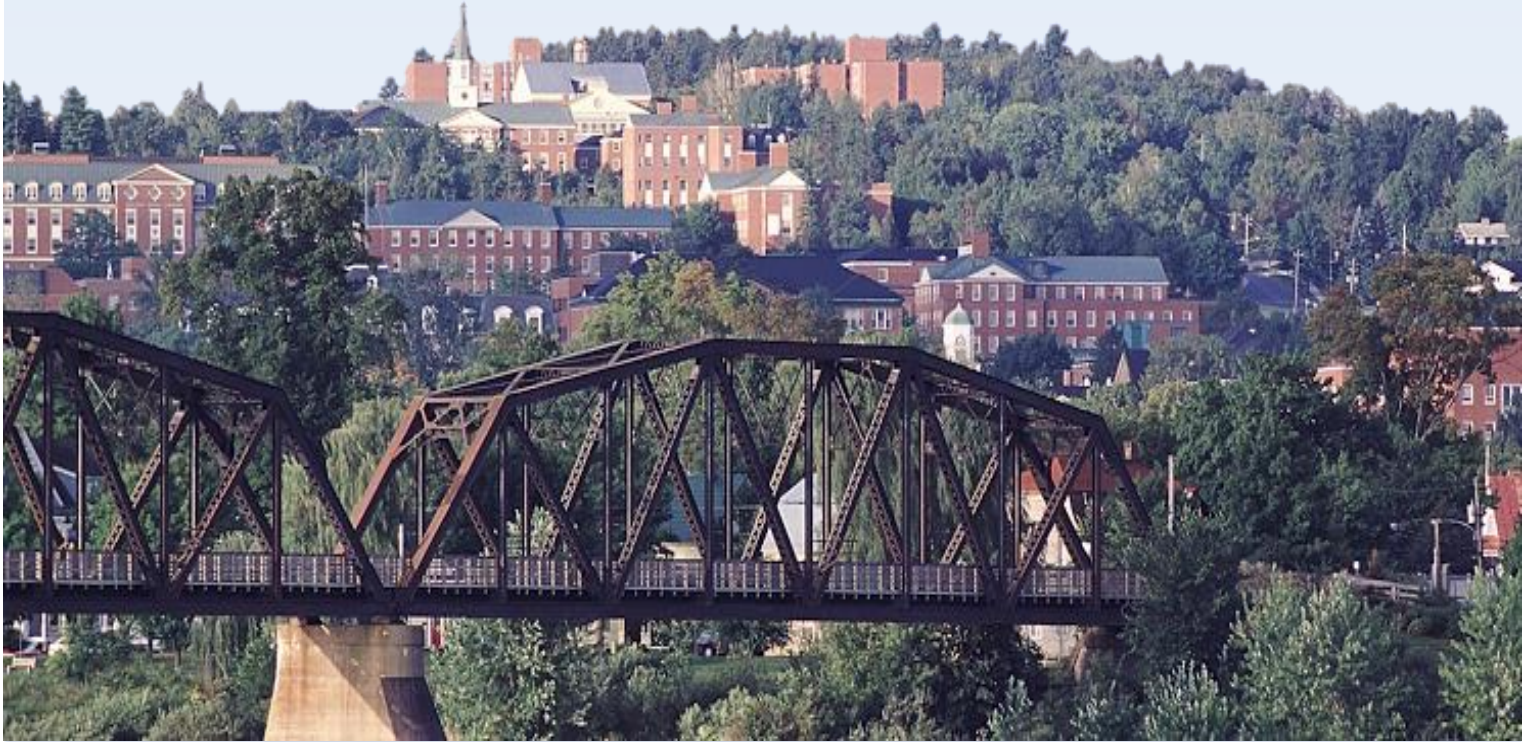


# University of New Brunswick

## ITE Student Chapter



2018-2019



## Message from the President

*The University of New Brunswick's CITE student Chapter is pleased to present our ninth annual report! The UNB Chapter is made up of a mixture of undergraduate and graduate members who are progressively working towards becoming transportation engineering professionals. This year we had 29 student members attending a variety of events throughout the year, along with out two faculty supervisors: Dr. Eric Hildebrand and Dr. Trevor Hanson.*

*The 2018-2019 year was a busy one for our chapter! Numerous seminars held on-campus taught our group about a vast array of challenges within the realm of transportation engineering. Our members travelled to national and international conferences to further broaden their knowledge of various transportation topics and present their novel research. The successes of this year would not have been possible without the broad support and enthusiasm of our membership, who were always interested in seeking out that next opportunity.*

*While this year was very eventful for the Chapter, we have many more ideas that we hope to implement in the coming year to further develop our program. Unfortunately, I will be graduating before the start of the next academic year so I won't get to see these plans come to fruition, but I know that with the group of passionate members we have at UNB that the coming year will be at least as successful as this one. I would like to thank everyone who helped make 2018-2019 a great year, and I wish you the best of luck with all your future endeavours.*

**Andrew Northmore**

*President*

## Table of Contents

<b>Chapter and UNB Events .....</b>	<b>4</b>
Seminar – Dr. Lutz Gaspers: Hochschule fur Technik-Stuttgart .....	4
UNB Transportation Group Homecoming Reunion.....	4
Lunch and Learn – Kristin Elton: Watch for Wildlife .....	4
Winter Seminar Series .....	5
<b>CITE Events and Meetings .....</b>	<b>6</b>
CITE Atlantic Provinces Section 2018 Spring Meeting.....	6
CITE Traffic Bowl and Annual Meeting 2018.....	6
CITE Atlantic Provinces Section 2018 Fall Meeting.....	6
CITE Atlantic Provinces Section 2019 Spring Meeting.....	6
CITE Annual Meeting 2019 .....	7
<b>Other Conferences and Meetings.....</b>	<b>8</b>
Canadian Society of Civil Engineers Annual Conference .....	8
Northeastern Transportation and Wildlife Conference .....	8
Canadian Technical Asphalt Association Annual Conference.....	9
TRANSED 2018 Conference .....	9
Transportation Research Board Annual Meeting.....	10
<b>Sponsor .....</b>	<b>11</b>
<b>Member Roster .....</b>	<b>12</b>

## Chapter and UNB Events

### Seminar – Dr. Lutz Gaspers: Hochschule fur Technik-Stuttgart

UNB hosted visiting scholar Dr. Lutz Gaspers from HFT Stuttgart during the summer of 2018. On June 22, 2018, Dr. Gaspers delivered a seminar for our chapter on transportation mobility in Stuttgart. The presentation was a fascinating one, as Dr. Gaspers discussed how mobility has evolved in the Stuttgart region over the last few decades and will continue to evolve with the completion of a new high-speed rail station in the core of the city.



### UNB Transportation Group Homecoming Reunion

The start of the 2018/2019 academic year at UNB marked the 50<sup>th</sup> anniversary of the creation of UNB's Transportation Group! A reunion reception was held on September 29, 2018, during homecoming, to bring together alumni of the UNB Transportation Group for an evening of networking and reconnecting. Many of the over 200 program alumni, current and former faculty, and our CITE chapter members attended what made for a memorable evening.

### Lunch and Learn – Kristin Elton: Watch for Wildlife

On October 23, 2018, we were pleased to host Kristin Elton and listen to a presentation on her work towards making roads safer for motorists and wildlife. Kristin is New Brunswick's representative of Watch for Wildlife, an organization dedicated to promoting awareness, discussion, and action on wildlife-vehicle conflict issues. Kristin's presentation informed the group about the types of infrastructure that transportation engineers can incorporate into their designs to allow a variety of wildlife, from moose to turtles, to cross the road safely, but she also stressed the importance of ensuring that wildlife crossings were being installed and maintained

in places where wildlife would cross the road naturally to make them more effective. The presentation the Kristin delivered was very eye opening towards the real-world implications of engineering design choices.



### Winter Seminar Series

During the winter term, the UNB Transportation Group put on weekly seminars that were delivered by a variety of transportation practitioners from across Canada. These seminars were well attended by both graduate and undergraduate members of the student chapter and encompassed a broad spectrum of transportation subjects, including challenges in the trucking industry, autonomous vehicle adaptation, rail safety investigations, planning for sustainable transportation in rural communities, and many more. These seminars are a great supplement to



the material learned in the lecture hall, as they often discuss the implications of specific design and planning decisions that are taught as part of the undergraduate and graduate programs at UNB.

## **CITE Events and Meetings**

### **CITE Atlantic Provinces Section 2018 Spring Meeting**

Four members of the chapter travelled to Halifax, NS to attend the spring meeting of the CITE Atlantic Section on May 10, 2018. At the meeting, several presentations were delivered with a focus on bus rapid transit and planning for multi-modal and active transportation. Our members enjoyed learning about the various projects, as well as having the opportunity to network with transportation professions from across Atlantic Canada.

### **CITE Traffic Bowl and Annual Meeting 2018**

UNB was represented at the CITE Traffic Bowl by Hannah McBride, David Copp, and Matt MacEachern. In our first tournament entry since 2016, our team made it to the semi-final against Ryerson University, where we unfortunately lost in an extended tie-breaker. Despite the defeat, our team had a great time in Edmonton and have been drumming up support within our group to send a team to Ottawa next year to build on last year's showing.

### **CITE Atlantic Provinces Section 2018 Fall Meeting**

Our membership made the trip up the hill to attend the Atlantic Section's Fall Meeting at UNB on November 7-8, 2018. On November 7<sup>th</sup> we attended the half-day traffic calming workshop delivered by Brian Malone of CIMA+ and on November 8<sup>th</sup> we attended the main meeting with a series of seminar presentations. Both days gave our members great exposure to a variety of challenges in the transportation engineering industry, with a strong focus on improving the design of existing transportation corridors to provide better and safer multi-modal traffic solutions.

### **CITE Atlantic Provinces Section 2019 Spring Meeting**

Hannah McBride had the opportunity to present on her research at the Atlantic Section Spring Meeting on May 9, 2019. Much like the 2018 meeting, this was an amazing event and opportunity to learn about ongoing projects in Atlantic Canada.

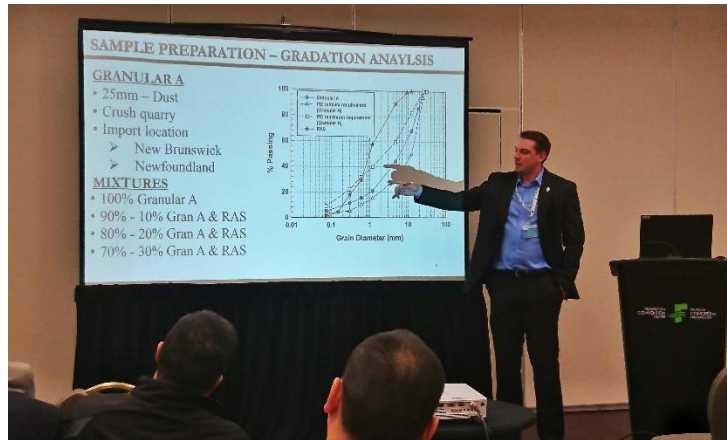
### **CITE Annual Meeting 2019**

Andrew Northmore represented the student chapter at the 2019 annual meeting. The conference was an amazing networking opportunity and there were many interesting presentations and technical tours that made for an overall great program. Andrew also took part in the student chapter roundtable, where he worked with members of other chapters to try to find solutions for common problems being experienced by student chapters across Canada.

## Other Conferences and Meetings

### Canadian Society of Civil Engineers Annual Conference

Matt MacEachern and Shahab Moeini Feizabadi presented on their research into road construction materials at the CSCE Annual Conference from June 13-16, 2018 in Fredericton, New Brunswick. The conference was a great opportunity for them to get feedback on their research and to network with civil



engineering professionals from across Canada. Many members of our chapter who were not presenting were volunteers at the conference, seeing as it was being hosted by UNB.

### Northeastern Transportation and Wildlife Conference



Andrew Northmore attended the Northeastern Transportation and Wildlife Conference in Amherst, Massachusetts from September 9 to 12, 2018. The conference was attended by a mix of engineers, policy makers, and wildlife biologists who are all working towards reducing the impacts of transportation infrastructure on wildlife. It was an eye-opening conference due to the wide variety of perspectives in attendance, and Andrew brought home a lot of new information to pass along to our membership and to use in his future career.



### Canadian Technical Asphalt Association Annual Conference

Shahab Moeini Feizabadi travelled to Regina, Saskatchewan from November 11-14, 2018 to present a portion of his Masters research at the CTAA Annual Conference. Shahab's research on the performance of recycled asphalt mixtures subjected to Canadian environmental and winter maintenance conditions was well received, and the conference was an excellent opportunity for him to network with other professionals in the asphalt paving industry.



### TRANSED 2018 Conference

Matthieu Goudreau attended the TRANSED 2018 conference in Taiwan from November 12-15, 2018 to present a portion of his Masters research on the use of volunteer driver programs to



provide mobility for older residents of rural communities in New Brunswick. Matthieu's presentation brought a Canadian perspective to the conference that was otherwise attended by a wide array of international delegates, including in his own session where the other speakers on similar topics were from Belgium, Japan, and Sweden.

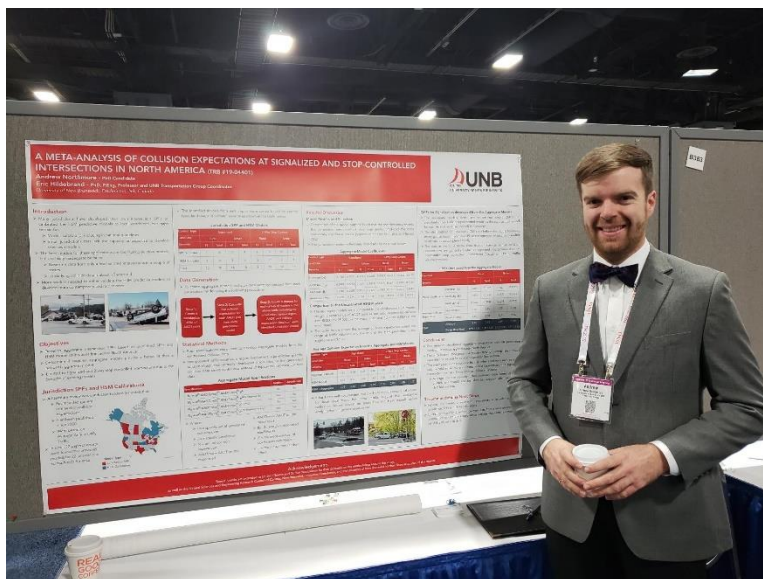
## Transportation Research Board Annual Meeting

Several of our graduate student members made the trip to Washington, D.C. from January 13-16, 2018 to attend the TRB Annual Meeting. TRB is always a great opportunity to inspire students about the vast array of work being undertaken in the realm of transportation engineering, and this year's meeting did not disappoint. The



group attended sessions ranging from the structural design of pavements to the behaviour of older drivers under the influence of marijuana, rode around the exhibit hall in an autonomous shuttle, and networked with transportation professionals from around the world.

Research from some of our members was also on display at the conference: Andrew Northmore presented a poster on the development of aggregate safety performance functions for general use in North America, and some more of Matthieu Goudreau's work on rural



volunteer driver programs was presented by his supervisor (Dr. Trevor Hanson). Both presentations were well received, and the feedback collected on both is being used to further improve transportation research at UNB.

## Sponsor

We would like to extend a huge thanks to the UNB Transportation Group for their continued support through our chapter's endeavours.



## Member Roster

	<i><b>Surname</b></i>	<i><b>Given Name</b></i>	<i><b>Degree</b></i>	<i><b>Expected Graduation</b></i>
<b>1</b>	Adeniran	Tunde	BSc	2020
<b>2</b>	Atwell	Emily	BSc	2021
<b>3</b>	Bass	Ryan	BSc	2020
<b>4</b>	Chapman	Bradley	BSc	2020
<b>5</b>	Copp	David	MSc	2019
<b>6</b>	Cunningham	Jameson	BSc	2020
<b>7</b>	Fullarson	Jonathan	BSc	2020
<b>8</b>	Gilbey	Christian	BSc	2019
<b>9</b>	Goudreau	Matthieu	MSc	2019
<b>10</b>	Hallett	Lucas	BSc	2020
<b>11</b>	Henry	Abigail	BSc	2021
<b>12</b>	Lo	Cindy	BSc	2019
<b>13</b>	MacEachern	Matt	MSc	2019
<b>14</b>	McBride	Hannah	MSc	2019
<b>15</b>	Minhaz	Rashed	BSc	2019
<b>16</b>	Moeini Feizabadi	Shahab	MSc	2019
<b>17</b>	Morehouse	Brianna	MSc	2020
<b>18</b>	Najm	Abdullah	BSc	2020
<b>19</b>	Northmore	Andrew	PhD	2019
<b>20</b>	Parsons	Sam	BSc	2020
<b>21</b>	Pearson	Dallas	BSc	2019
<b>22</b>	Rice	Colby	BSc	2019
<b>23</b>	Santos	John	BSc	2020
<b>24</b>	Seaman	Keiran	BSc	2020
<b>25</b>	Seeley	Lorne	BSc	2020
<b>26</b>	Sookar	Prithinrajsingh	BSc	2020
<b>27</b>	Wang	Zhaoliang	BSc	2020
<b>28</b>	Wood	Taylor	BSc	2020
<b>29</b>	Young	Jacqueline	MSc	2020
<b>30</b>	Hanson	Trevor	Faculty	-
<b>31</b>	Hildebrand	Eric	Faculty	-