

Southern Alberta ITE Section

Email: southernalbertaite@gmail.com

Annual Section Report - 2018



Mr. Edward Soldo, P.Eng.
President, District 7
Canadian Institute of Transportation Engineers

Dear Mr. Soldo:

The Southern Alberta Section of ITE would like to present our 2018 Annual Section Report for your review. Our Section continues its excellent participation with the transportation professionals in Southern Alberta through numerous technical, social, and student activities. Furthermore, in January 2018 we initiated a Complete Streets Workshop Series to help practitioners gain new skills and develop additional insights around complete streets philosophies and design approaches.

We organized eight regular monthly luncheon meetings, one joint meeting with the Alberta Professional Planners Institute (APPI), and a technical tour of Calgary's Transit Operations Control Centre. We continued to actively support student activities through discounts on meeting/event participation, and provide encouragement to our local University of Calgary student chapter, who held a rewarding Student/Industry Mixer in April 2018.

Our social events included, in June, a joint technical tour of the 17 Avenue SW Reconstruction Project and year-end summer social. Additionally, we organized a family bike ride along the High Rockies Trail in Kananaskis in mid-August.

The financial state of the Section remained positive with a balance of \$4,190.86 at year-end. In 2018 we also tested out electronic methods of collecting funds for our events, eventually arriving at the CITE website and using the expertise of District Administrator, Steven Garner, to help setup Section activities.

Overall, it was another successful year for our Section, made possible with all the hard work and dedication from our amazing members and Executive Team. We look forward to a great 2019!

Regards,

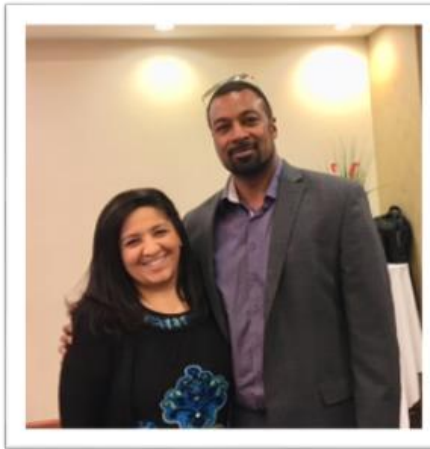
Meera Kopp
2018 President – Southern Alberta ITE Section

Cc: 2018 SA ITE Executive (Monique Castonguay – Treasurer, Zoran Carkic – Secretary, Anne Cataford - Publicity Coordinator, Irini Akhnoukh – Past President)

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Section Executive

Elections were held in December of 2017 for the Southern Alberta Executive and results were announced at the Annual General Meeting in January. All incumbent candidates moved on to their new roles, with Anne Cataford joining the executive as the new Publicity Coordinator. Irini Akhnoukh assumed the role of Past President.



The executive team members for the year 2018 are listed below.

Current Officers

President

Meera Kopp, P.Eng.
City of Calgary

Vice President

Dale Lynch, P.Eng.
City of Calgary

Secretary

Zoran Carkic, P.Eng
City of Calgary

Treasurer

Monique Castonguay, P.Eng
City of Calgary

Publicity Coordinator

Anne Cataford, P.Eng, PMP
City of Calgary

Past President

Irini Akhnoukh, M.Eng., P.Eng., PTOE
McElhanney Consulting

Half way through the year we said goodbye to our Vice President, Dale Lynch, who moved to Montreal in late June. The decision was made by the Executive Team to relinquish the Vice President position for the remainder of the year and, if acclaimed, the current executive would move into the following positions:

- President: Monique Castonguay (currently serving as Treasurer)
- Vice President: Zoran Carkic (currently serving as Secretary)
- Treasurer: Anne Cataford (currently serving as Publicity Coordinator)

This would leave two new vacant positions, Secretary and Publicity Coordinator, during the 2019-election period.

Section Membership

A summary of the Southern Alberta Section's membership and associated annual dues are shown in the table below. Membership for the Section is 298 members as of December 2018, which is comparable (and, in fact, indicative of positive growth) to the Section's 2014 membership of 277. Highlights about the Section's membership include:

Membership Type	Membership	Percent	Section Annual Dues
Honorary	1	0.3	
Fellow	8	2.7	
Fellow Retired	1	0.3	
Member	83	28	\$30.00
Member Retired	1	0.3	
Public Agency Member	179	60	\$30.00
Students	25	8.4	
Total	298	100	

In line with ITE International's goal of increasing membership, the Southern Alberta ITE section has been working to identify opportunities to buildup membership locally, as follows:

- Linking with other organizations (such as APPI) to co-host social and technical events. During these events, the Section uses the opportunity to inform attendees from other organizations about ITE.
- Working with public agency members to ensure their staff is aware of opportunities to join ITE.

Financial Report

The balance of funds on hand at the beginning of the reporting period was \$2,614.45. The Section's expenses totaled to \$22,335.12 and income totaled to \$23,911.53, resulting in a net gain of \$1,576.41, with an overall balance of about \$4,190.86 by the end of 2018. The biggest income sources included luncheons/tours (\$15,094.15) and section dues (\$3,538.33).

2018 Financial Update - January to December

Activities	Income	Expenses
2017 Balance Carried Forward	\$7,219.77	
2017 John Vardon Scholarship		\$ (500.00)
2017 City of Calgary Staff Subsidy Reimbursement	\$1,530.00	
2017 December Event (Event Venue, Meal, Speaker Gifts)		\$ (5,410.32)
2017 ITE Section Dues to Lethbridge		\$ (225.00)
2017 Engineers Without Borders Donation		\$ (400.00)
Outstanding Sponsorship (2016)	\$ 400.00	
Starting Balance	\$2,614.45	\$ -
2018 Luncheon Sponsorship (400\$ pending)	\$ 2,000.00	
2018 Luncheons/Tours Revenue	\$ 15,094.15	
2018 Event Sponsorship (Summer Social)	\$ 400.00	
2018 Event (Summer Social) Revenue	\$ 479.05	
2018 City of Calgary Staff Attendance Reimbursement (pending)	\$ 2,400.00	
2018 ITESA Section Dues	\$ 3,538.33	
2018 ITESA Section Dues Distribution to Lethbridge		\$ (156.65)
2018 John Vardon Scholarship		\$ (500.00)
2018 Engineers Without Borders Donation		\$ (400.00)
2018 Executive Meetings		\$ (345.71)
2018 Monthly Luncheons & Tours (Catering & Facilities)		\$ (19,209.15)
2018 Event (Summer Social) Expenses (Catering & Facilities)		\$ (711.37)
2018 Eventbrite Fees		\$ (975.99)
2018 Bank Fees		\$ (36.25)
2017 Total	\$26,525.98	\$ (22,335.12)
Estimated End of Year Balance - December 31	\$4,190.86	

Section Activities

A summary of the technical activities conducted by the Southern Alberta Section in 2018 is provided below.

Meeting Type	Number of Meetings Held
Regular Monthly Luncheons	8
Joint Meeting	1
Technical Workshops	2
Technical Tours	2
Total	13

Regular Monthly Luncheons

Every year, the Southern Alberta Section organizes regular monthly luncheon meetings to conduct the Section's business, convey announcements and provide informative technical sessions to the Section members and other interested transportation professionals in Southern Alberta. These meetings are typically held once a month during lunch times, and based on current important topics in the transportation (or related) field.

During 2018, the Southern Alberta Section held eight regular monthly luncheons. Brief summaries of these meetings are provided below.

Date	Speaker	Topic	Location	Attendance
January 15	Dale Lynch, City of Calgary	SA ITE Annual General Meeting and Complete Streets Workshops	Fort Calgary	64
February 27	David Nagy, Consulting Engineers of Alberta	Effective Communication	Holiday Inn	49
March 20	Judy Yu, Associated Engineering	A Bit About Risk	Holiday Inn	39
May 23	Ryan Martinson, Stantec	Equity and Mobility	Holiday Inn	50
June 19	Mac Logan, Maplehawk Corp	The Adoption of Electric Vehicles – Status in Canada, Alberta, Calgary	Holiday Inn	62
September 19	David Down, City of Calgary	Improving Urban Design Outcomes: The Quality Design Project	Fort Calgary	69
November 20	Marcia Eng and Brian Patterson, Urban Systems	Alberta Bicycle Facilities Design Guide	Holiday Inn	60
December 18	Irini Akhnoukh, McElhanney Consulting	25 Avenue S.E. LRT Grade Separation Study	Holiday Inn	62

Joint Meeting

The Section held a joint meeting with the Alberta Professional Planners Institute (APPI) in April. The event was a moderated Q&A session with Janette Sadik-Khan, a former commissioner of the New York City Department of Transportation. A brief summary of this joint meeting is provided below.

Date	Topic	Location	Attendance
April 12	Moderated Q&A Session with Janette Sadik-Khan	Festival Hall	89

Technical Workshops

In 2018 the Southern Alberta section developed a series of Complete Streets workshops to help practitioners gain new skills and develop additional insights around complete streets philosophies and design approaches. The intent of the workshops is to foster collaboration and team-based learning through various educational scenarios such as group activities, case studies, field and classroom training. We have and will continue to bring in specialists from industry and government to lead the workshops, and will also look outside the transportation field to bring expertise that may be relevant and interesting, as required (i.e., planning, law and ethics, gender and equity issues).



This year we held two workshops, and a brief summary of these are provided below.

Date	Speakers	Topic	Location	Attendance
January 15	Dave Ware, Innovative Play Phil Weber, CIMA+	Complete Streets: An Introduction	Fort Calgary	31
September 19	Joyce Tang and Amanda Szepecht, City of Calgary	Community Planning	Fort Calgary	47

Technical Tours

The Section organized two technical tours. The first was a joint event preceding the year-end summer social, and included a tour of the 17 Avenue SW Reconstruction Project in Calgary's popular Beltline Area.



The second was a tour of Calgary's Transit Operations Control Centre, followed by a delicious lunch at Sauce Restaurant.

Brief summaries of the technical tours are shown below.

Date	Topic	Attendance
June 28	17 Avenue SW Reconstruction Project	29
October 17	City of Calgary Transit Operations Control Centre	33

Lethbridge Chapter

The Section continues to work with and support our Lethbridge Chapter, which had 13 confirmed members in 2018. The Lethbridge Chapter conducts its own monthly meetings, and we also had the opportunity to include them virtually at our November luncheon. A summary of the Lethbridge Chapter activities in 2018 is attached.

University of Calgary Student Chapter

The Section also assists the local University of Calgary (UofC) ITE Student Chapter. This year we helped advertise for their Student/Industry Mixer in April. The Section has a new Student Chapter Coordinator, Lynn Machacek. The invite letter for the April Mixer and a summary of the UofC Student Chapter activities in 2018 is attached.

Legislative Activities

The Section conducted an Election of 2019 officers in alignment with our by-laws. Cory Wilson – Past, Past President, was the Elections Committee Chair.

Social Activities

The Southern Alberta ITE Section successfully hosted our 2nd annual Year End Summer Social on June 28. There was a guided tour of the 17 Avenue SW Reconstruction Project followed by happy hour and appetizers at Trolley 5 Brewpub. We also took this opportunity to bid farewell to our Section's Vice-President, Dale Lynch, who moved to Montreal at the end of June.

Additionally, we organized a family bike ride along the High Rockies Trail in Kananaskis in mid-August. Unfortunately, our lungs had to compete with the smoke from the extreme wildfires Calgary experienced last summer. However, it was an exciting family adventure that was encouragingly mapped out for us by trail designer/bike expert, Ron Sadesky, from McElhanney Consulting.

Lethbridge Chapter Activities 2018

January 24 (Luigi's North)

A Miovision Webinar was viewed on the topic of Engineering Applications of Traffic Data Collection. The webinar reviewed Foundations for Successful Engineering Projects, Data for Signal Timing, Corridor Progression, Traffic Impact Studies, and Collection Technology Comparison and how all this can be integrated with Miovision

February 28 (Luigi's Steakhouse South)

Joint luncheon held with the APEGA Lethbridge chapter on a presentation of the City of Lethbridge Transportation Capital Improvement Program (CIP). The 2018-2027 CIP aims to fulfill City Council's commitment to complete projects previously approved, take care of existing asset, and plans for the future. Multiple projects were showcased at the luncheon, such as the Twinning of Whoop Up Dr W, Twinning of University Drive W, Reconstruction of 3 Ave S, and the 7 Ave Bike Boulevard.

March 28 (Luigi's North)

Jinsong Qi from the City of Lethbridge, works as the Traffic Signal Operations Engineer. He gave a presentation based on his experience with the differences and similarities between Traffic Signal Controls in Canada, US, and China. Topics included different types of signals and regulations, and some unique designs in place to deal with challenges

April 25 (Luigi's North)

Ahmed Ali from the City of Lethbridge gave a presentation on The Functional Planning project for the Whoop-Up Drive Interchanges.

Based on the City of Lethbridge Transportation Master Plan indicating that there is adequate capacity along Whoop Up Drive, the interchanges face capacity and congestion issues. Ahmed summarized the project background so far, and public engagement / design process in choosing the best option to increase traffic flow with a reasonable investment in short term while providing recommendations for medium and long-term in case the third bridge is not constructed within that time frame. There were approximately 12 attendees.

May 30 (Luigi's North)

TAC pre-recorded Webinar on TAC Geometric Design Guide for Canadian Roads. This was well attended, as many people wanted to get up to date on the changes in the current edition.

June 27 (Luigi's North)

Jordan Walker from the local office of Ventus Geospatial presented their drone mapping capabilities and how it has been used on a variety of projects in Southern Alberta. The presentation summarized the use of the technologies to produce detailed and accurate mapping and topographic modelling for different design purposes. Approximately 14 attendees showed up for the event

August 29 (River Bottom)

ITE Summer BBQ Social was hosted in the river bottom with 8 attendees. The group gathered to enjoy burgers and nice weather

September 27 (Luigi's North)

Chris Poirier of Associated Engineering and Ahmed Ali of the City of Lethbridge presented on the new Lethbridge Bike Boulevard. They presented on the unique design, construction, and operation challenges experienced on the first facility of it's kind in Alberta. The presentation had a great turnout with 10 attendees, and everyone had the opportunity to have a conversation about the Bike Boulevard and cycling in Lethbridge.

October (Luigi's Steakhouse South)

The ITE Lethbridge chapter had a joint luncheon planned with the local APEGA chapter, but unfortunately had to be cancelled.

November (Stoketown Café and Cure)

The Lethbridge ITE Chapter videoed in to the Southern Alberta Section's presentation on Alberta Bicycle Facilities Design Guide that was hosted by Brian Patterson and Marcia Eng. They presented on the new bicycle guide that is in the final stages of development, and how it can be utilized by jurisdictions across Alberta for context sensitive design guidelines. The presentation has approximately 10 attendees.

Throughout the year, we have always held our lunches at a local restaurant with a large rentable space. Because we have attendance numbers that fluctuate from approximately 6 to 20, this was a flexible option. However, price, location, and venue atmosphere led our executive team to consider other spaces that while they do not hold more than approximately 12 people, may be better suited to the events.

Dear ITE Southern Alberta Member,

The University of Calgary ITE Student Chapter, partially funded by the Graduate Students' Association Quality Money Program, is holding a Student/Industry Mixer on Thursday April 26, 2018 from 10:00 AM to 3:00PM, at the University of Calgary, on-campus location to be determined.

On behalf of the student chapter, we invite the larger transportation community to this exciting event, either as a presenter or an attendee. Please RSVP if possible by April 18 by filling in the following form at <https://goo.gl/forms/41scJKIRq5JDZi093> to facilitate event planning.

Presentation time will be open to both transportation professionals and interested students to present their recent work to the community throughout the day. If you are interested in presenting a recent project at this event, or if your organization is interested in occupying an information booth at the event, please try to contact uofcite@gmail.com by April 11 to reserve a presentation spot and/or information booth.

If you are interested in sponsoring this event, please contact uofcite@gmail.com for more information and please refer to the sponsorship package attached. By sponsoring this event, you help support the U of C ITE Student Chapter to cover the cost of this event as well as to help fund next year's events in support of the transportation community on campus.

Once again, on behalf of the chapter, we thank you for your support and we hope to see you at the event!

Best Regards,
U of C ITE Student Chapter Executive

Sponsorship Package Information

Thank you for interest in sponsoring this event and for supporting the U of C ITE Student Chapter. Please refer to the Sponsorship Package below for more information. Common to all sponsorships is acknowledgement of your organization in the club's annual report.

Platinum (\$500+)

- Company/Organization branding on mixer advertisements as Platinum Sponsor
- Acknowledgement by emcee of Platinum Sponsors during event
- Additional branding for the next academic year's Student Chapter event advertisements and the club's website

Gold (\$200+)

- Company/Organization branding on mixer advertisements as Gold Sponsor
- Acknowledgement by emcee of Gold Sponsors during event

Silver (\$100+)

- Company/Organization branding on mixer advertisements as Silver Sponsor

ITE Student Chapter – University of Calgary

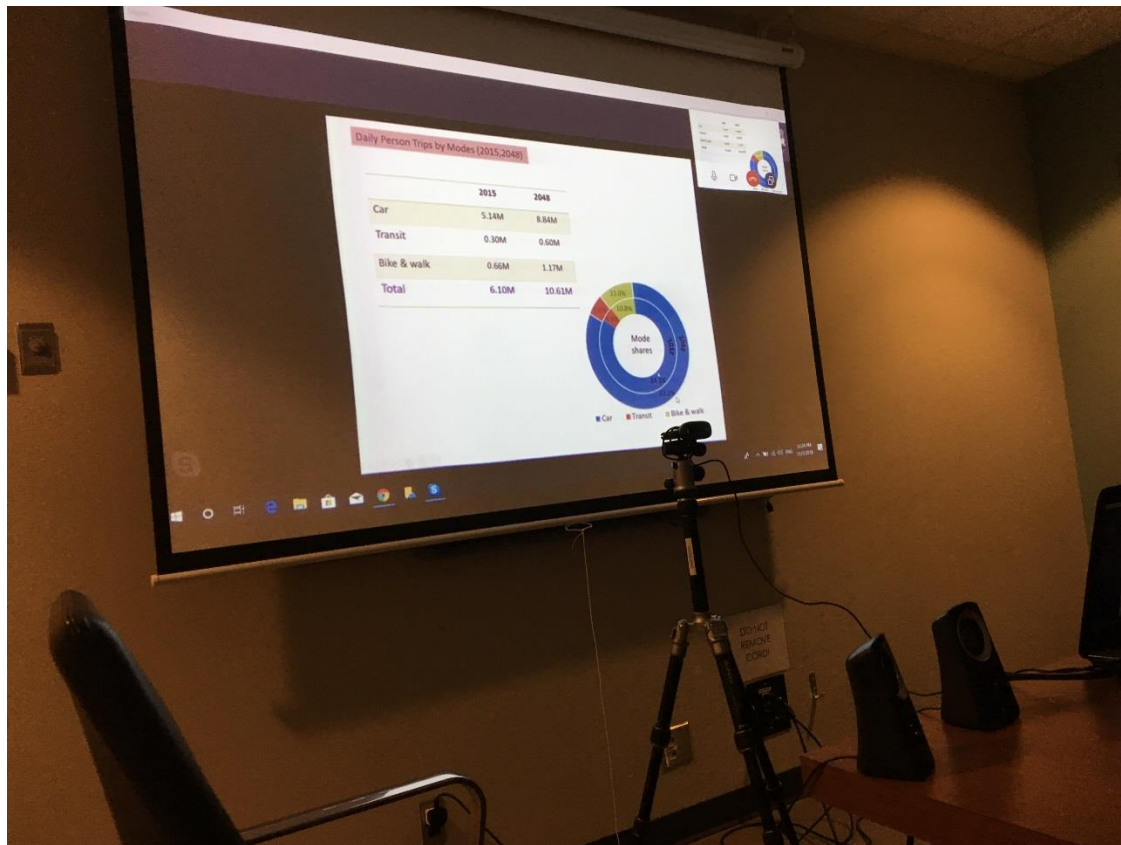
ITE Event Nov 7th, 2018 – 12 to 1 PM

Presenter: Matiur Rahman from Government of Alberta

Topic: City of Calgary Trip Distribution Patterns

Matiur Rahman received his PhD from University of Calgary and started working as a Transportation Planner at Government of Alberta. He has years of experience working with big data. At Government of Alberta, he develops regional trip mode distribution (transit, car, bike and walk) for current (2018) and future horizon (2048) for city of Calgary and the greater area. The presentation covered the vitality of having a Demand Prediction Model, methodology of developing such a model, software used for that, interpretation of some analysis and examples of using the model. The presentation was done remotely and Matiur Joined the session using video call. After presentation, Q&A session was hold and lunch was served. Some photos of the event are as follows.





ITE Event November 16th Friday 2018 – 11 am to 12 noon

Presenter: Prof Babak Mehran, University of Manitoba

Topic: Analytical Models for Operating Cost of Bus and Demand Responsive Transit Systems

As cities expand and more residential developments in suburban areas, the authorities have sometimes come across issues with operating a regular bus route is not financially and economically feasible. As a result, studies in search of a solution for this have paid attention on optimizing the operating costs in different ways and looking for low cost operation methods. Accordingly, Demand Responsive Transit Systems have been emerging as a viable option to mitigate the issues with meeting transport demand in suburban areas where transport demand is low. To improve the awareness of this emerging topic among the civil engineering students, the University of Calgary student chapter of ITE organized a research seminar on 16th November Friday at the Civil Engineering Department Premises by Prof. Babak Mehran who is a pioneering researcher in the field of Demand Responsive Transit Systems. Prof. Babak Mehran is an Assistant Professor of Transportation Engineering in the Department of Civil Engineering of the University of Manitoba. He received his PhD in Transportation Engineering from Nagoya University, Japan in 2009.

His presentation was focused on evolution of Demand Responsive Transit Systems and a methodology was proposed to develop analytical models describing operational costs of regular bus and demand responsive transit services as a function of demand or annual ridership. The proposed cost model for regular bus service has three independent parameters i.e. fleet size, vehicle service hours, and vehicle traveled distance, which are all related to demand. Applications of the proposed models and analysis method were demonstrated through a case study in Regina. It was evident that a lot of people were interested to hear about the topic from the significant participation of students. The students gathered a lot of knowledge regarding Demand Responsive Transit Systems and Prof. Babak answered several questions of audience clarifying the issues they had. Some photos of the event are as follows.





ITE Event – STEM Outreach Event for Girl Guides in Cochrane, AB

Date - Nov 21st, 2018

Participants: Nadia Moshahedi, Jacob Lamb, Sumaya Nasir, Kaushan Devasurendra

Venue – Cochrane Girl Guide House, Cochrane, AB

In November the executive committee of the student chapter, with the help of Madlaina Guetg who our liaison for the event was, ran a transportation themed STEM activity evening for the Girl Guides of Cochrane, AB. Using the activity templates from the ITE, the group invited the girls (aged 8 to 11) to think about the transportation systems they use day-to-day; how they get to school, what causes them to be stuck in traffic, why we need traffic lights to avoid conflict, and what makes a good road sign etc. which creates an enthusiasm within them to follow more technical higher education in their lives. The games were arranged in a way that each girl gets to play all four games. Four participants of the executive committee oversaw each game. The girl guides were really interested with the games they had to play and had a great time at the event. A photo of the event is as follows.



ITE Event Nov 30th-Dec 1st, 2018**Presenter: Ali Farhan, Mahsa Ghaffari and Sumaya Nasir from Government of Alberta****Topic: EMME Workshop**

A two-day workshop on EMME software was organized. EMME is a transportation planning software which facilitates complex and large-scale modeling of transport networks. 12 students participated in the workshop and certificate of participation was handed to attendees. The outline of the two-day workshop is presented in table below.

Training Day 1/ Friday/ Nov 30, 2018		
Time	Topic	Presenter
9 – 10 am	Travel models at Alberta Transportation	Ali
10 – 12 am	Introduction to Emme software <ul style="list-style-type: none">- Emme prompt- Modeller Hands on modules.	Ali/ Mahsa
1-3 pm	Network coding <ul style="list-style-type: none">- Network editor- Network inputs (lanes, speed, vdf etc.)	Sumaya/ Mahsa
3 -4 pm	Model output preparation <ul style="list-style-type: none">- Creating worksheets- Preparing outputs	Ali/ Mahsa
Training Day 2/ Saturday/ Dec 1, 2018		
9 – 12 am	Analysis using Emme <ul style="list-style-type: none">- Multiclass assignment- Select link assignment- Traversal assignment- Sub-area	Mahsa
1-3 pm	Crowsnest Pass model	Ali

Some photos of the event are as follows.



ITE Event February 06th Wednesday 2019 – 12 noon to 1 pm

Presenter: Mr. John Hubbell, Associate Vice President of HDR

Topic: BRT System Elements and Calgary Crosstown BRT Functional Planning Process

John Hubbell has worked as the Director of Calgary Transit and has worked as the General Manager of Transportation for the City of Calgary. During this presentation, he shares a bit his vast knowledge and experience in BRT system elements and Calgary crosstown BRT functional planning process. This topic took the attention of a lot of people due to the recently implemented bus route revision which includes BRT as well. Therefore, the presentation had a significant participation which included undergraduate students, graduate students and professors. A photo of the event is as follows.



Executive Committee

UofC ITE Student Chapter