



**University of British Columbia
Institute of Transportation Engineers
Student Chapter**

**Annual Report
2007-2008**

Report submitted by

Tanya Duamel
President
UBC ITE Student Chapter

Natasha Elliott
Vice-President
UBC ITE Student Chapter

Report approved by

Dr. Jacqueline Jenkins
Chapter Advisor
UBC ITE Student Chapter

Email: teduamel@interchange.ubc.ca
Date: March 31, 2008

TABLE OF CONTENTS

INTRODUCTION	1
1.0 MEMBER ENROLLMENT	2
2.0 SUMMARY OF ACTIVITIES	3
3.1 Get Hooked on Road Safety Conferences in Geneva, Switzerland–.....	3
3.2 UBC ITE T-shirts	3
3.3 Traffic Jam (Rush Hour)	4
3.4 Field Trip – Sky Train Control Centre	5
3.5 UBC Transportation Course Review.....	6
3.6 UBC ITE Industry Night	7
3.7 Driving Simulator Demonstration.....	8
3.8 Greater Vancouver ITE Monthly Meetings.....	9
3.9 Up-coming: UBC ITE Appreciation Dinner.....	9
3.10 Up-coming: Quad/CITE Conference, Victoria, BC, April 27-30 th , 2008.....	10
3.0 PROMOTING ITE	11
4.1 UBC Civil Club.....	11
4.2 Display Case	11
4.3 Chapter Website.....	12
4.0 FINANCIAL SUMMARY	13
5.0 SUMMARY	14
APPENDIX: STUDENT CHAPTER MEMBERSHIP	15

INTRODUCTION

The 2007-2008 academic year was a great success for the University of British Columbia's student chapter of the Institute of Transportation Engineers. Few members from the previous year returned as many members graduated, however, many new faces have shown interest in becoming active members of UBC ITE. All executive members have showed a keen interest in not only promoting transportation engineering among fellow students, but also acting as facilitators of communication between industry and the student body.

The following report summarizes the section's activities between April 1, 2007 and March 31, 2008. Chapter activities typically run from September to April, and as such, some activities have yet to be completed.

1.0 MEMBER ENROLLMENT

The transition of the 2006-2007 executive to the 2007-2008 executive primarily occurred in April 2007, at the annual chapter dinner. The first semester marked the return of one of UBC's transportation professors, Dr. Jacqueline Jenkins. As Dr. Sayed, the chapter's past Chapter Advisor is on sabbatical; Dr. Jenkins has kindly taken on the role of Chapter Advisor for the 2007-2008 academic year.

The 2007-2008 UBC ITE Student Chapter Executive members are:

Chapter Advisor:	Dr. Jacqueline Jenkins
Assistant Chapter Advisor:	Clark Lim, Ph.D.
President::	Tanya Duamel
Vice President:	Natasha Elliott
Secretary:	Natasha Elliott
Treasurer:	Xiangyun Jiang
Graduate Student Representative:	Eric Mital, B.A.Sc.
4 th Year Representatives:	Tanya Duamel Natasha Elliott
3 rd Year Representatives:	Xiangyun Jiang Behin Phua
2 nd Year Representative:	Jared Duiveststein
Immediate Past President:	William Hui, B.A.Sc.
Webmaster:	<i>Vacant</i>

Many students from all levels of study registered and became student members of ITE International this year. In total, there are six (6) members in the executive and a total of twenty-one (21) student members registered with UBC ITE, most of whom are new members of UBC ITE. A full list of student membership can be found in the appendix to this report.

2.0 SUMMARY OF ACTIVITIES

UBC ITE strives to promote the field of transportation engineering through diverse activities such as professional guest lectures, industry night, social events and conferences. The following sections highlight the activities in the summer and first semester in 2007 as well as some activities currently in the planning phase.

3.1 Get Hooked on Road Safety Conferences in Geneva, Switzerland– April 23 – 29, 2007

Transport Canada partly sponsored conferences on road safety in Geneva in mid-2007. William Hui, Immediate Past President of UBC ITE, attended this conference. He was one of seven Canadian students selected to attend the conference. Upon his return, Mr. Hui wrote an article for the ITE Transportation Talk accounting his experience at the conference. The article can be found at http://www.cite7.org/Newsletters/Fall2007_print.pdf on page 13.

3.2 UBC ITE T-shirts

At the end of the summer, UBC ITE T-shirts were printed and are currently being sold to ITE members. The logo on the front of the shirt is shown below in Figure 1, while the back of the shirt shows the logos of our 2006-2007 sponsors: Opus Hamilton, UBC Civil Department and Bunt and Associates.

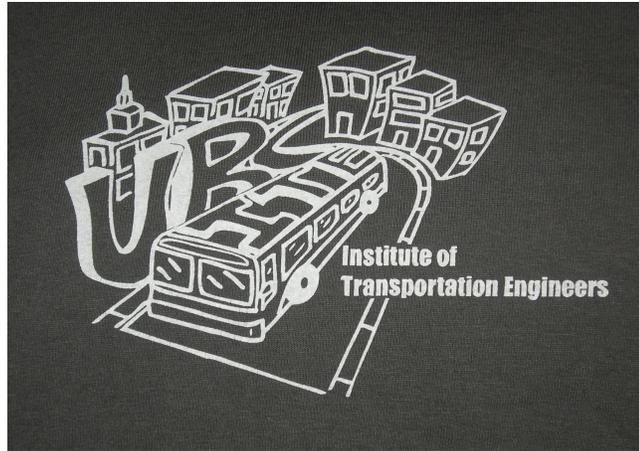


FIGURE 1 UBC ITE T-SHIRT FRONT LOGO DESIGN BY JAMES LEE

3.3 Traffic Jam (Rush Hour)

The first event held was a Traffic Jam Competition (also known as Rush Hour). This was a “fun” activity aimed to introduce students to the chapter. The purpose of this game is to arrange the miniature vehicles by sliding them either horizontally or vertically so that the red car can eventually exit the miniature street network. Students formed teams to solve the gridlock problem. Teams with the fastest times won. Figure 2 shows the game set up.

This event is well received by the engineering students and has become a “signature” activity of UBC ITE. The games have also been informally played on occasion as “practice rounds”. Another Traffic Jam event will be held in the before the end of the academic year.



FIGURE 2 TRAFFIC JAM (RUSH HOUR) GAME

3.4 Field Trip – Sky Train Control Centre

This year, a field trip was organized to the TransLink SkyTrain Control Centre. All UBC engineering students were invited to this event, while UBC ITE members received priority to attend. This event was met with great response from civil engineering students as well as mechanical and electrical engineering students. Students were given a brief lecture on the history of the Control Centre and a tour of the Control Centre and Maintenance Facilities. This event was a huge success and another field trip will be planned before the end of term.



Students descending below a SkyTrain



Inside the SkyTrain maintenance facility



Examining the underside of a SkyTrain



Field trip participants

FIGURE 3 SKYTRAIN CONTROL CENTRE FIELD TRIP PHOTOS

3.5 UBC Transportation Course Review

The UBC Student Chapter decided to undertake the task of conducting a course review of the transportation program at UBC. This report is intended to determine students' general interest in transportation, their opinions on the undergraduate and graduate transportation courses, industry's expectations of graduating students, and to investigate transportation programs offered at other universities.

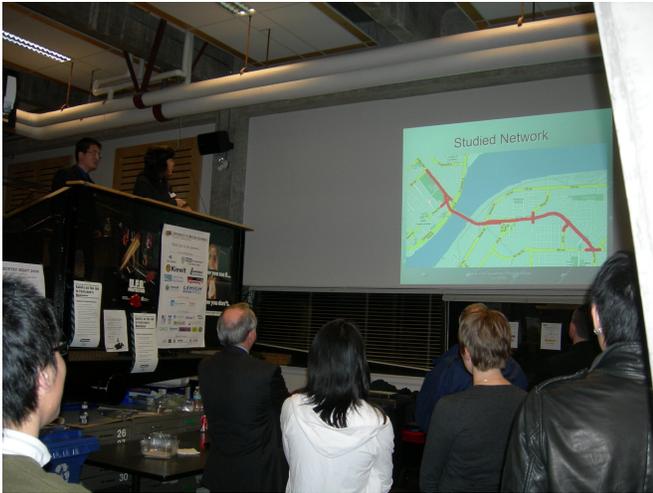
Information will be collected by internet research and by means of surveys. A number of short surveys will be developed for students (2nd, 3rd, and 4th year students as well as grad students), industry and for other ITE student chapters within Canada. Surveys will be available electronically via Survey Monkey as well as in hard copy. The Industry surveys are currently in circulation while the other surveys are currently being completed.

The course review will ultimately be in the form of a written report submitted to the Department of Civil Engineering for their use, to improve the transportation program at UBC.

3.6 UBC ITE Industry Night

The UBC ITE Student Chapter held the annual Industry Night on Wednesday January 30, 2008. An earlier date than last year was selected in order to attract more co-op and other students searching for employment. The event began with mingling and progressed to a presentation competition where three groups of 4th year undergraduate students presented projects on improvements to different transportation facilities in Vancouver. Representatives from the Greater Vancouver ITE Chapter, the public sector and the private sector judged the presentations. A prize of \$200 was presented to Tammy Liu and Ben Hong Lau for their presentation of implementing a counter-flow system on the Pattullo Bridge. Industry Representatives were also given the opportunity to give a brief presentation about their company. Figure 4 shows photos taken at the Industry Night.

The chapter was also able to obtain sponsorship from the event from Bunt and Associates, PTV America and Opus Hamilton. Thirteen companies were represented at the Industry Night and over sixty students were in attendance.



Student presentations



Networking between students and professionals



UBC ITE President, Judges and Presentation Winners



Industry Representative Presentations

FIGURE 4 INDUSTRY NIGHT PHOTOS

3.7 Driving Simulator Demonstration

In the second semester, Dr. Jenkins, the Chapter Advisor, allowed students to take a spin on UBC's driving simulator. As students drove the course, Dr. Jacqueline Jenkins explained how the simulator can be used for research and training. The driving simulator is composed of the cabin of a Hyundai and five screens that project a 200 degree field of view. The Oktal software also allows

road geometries to be manipulated in order to study driver behaviour in various situations. UBC students took great interest in the simulator and nearly 60 students attended.



FIGURE 5 STUDENT TRYING THE DRIVING SIMULATOR

3.8 Greater Vancouver ITE Monthly Meetings

The Greater Vancouver section of ITE holds monthly meetings with guest speakers. Students are encouraged to attend these as the topics are relevant and interesting and it is also an excellent opportunity for networking. Topics have included Cycling Facilities presented by the Vancouver Area Cycling Coalition, 2010 Traffic Safety Vision presented by Ms. Mavis Johnson, Transportation accessibility from the UK and for the Evergreen Line presented by Mr. Carlo Perez and Ms. Charlotte Bathurst and Nunavut-Manitoba Road: Enhancing Canada's Arctic Gateway, presented by Tim Stevens.

3.9 Up-coming: UBC ITE Appreciation Dinner

As a social event, UBC ITE is planning a dinner to express its appreciation for all the time and effort put in by those in the Chapter. A meeting to debrief on this past years events will also take place at this event.

3.10 Up-coming: Quad/CITE Conference, Victoria, BC, April 27-30th, 2008

UBC ITE plans to send three or four members to take part in the conference. This will be funded by the UBC ITE Student Chapter and funds acquired from the UBC Engineering Professional Activities Fund (PAF) for Travel and Conferences. There are currently three UBC ITE members who have expressed interest in attending the conference.

3.0 PROMOTING ITE

The following are means that UBC ITE use in order to effectively promote transportation engineering at the UBC.

4.1 UBC Civil Club

UBC ITE continues to be actively represented with UBC Civil Club. One or two members attend the Civil Clubs weekly meetings in order to promote the Chapter's activities and to coordinate events to avoid conflicts with other groups.

4.2 Display Case

A number of display cases line the halls of the Civil Engineering and Mechanical Engineering Building (CEME) at UBC. In January, the Chapter acquired a display case to promote the chapter and its activities as well as ITE and the transportation industry in general. Display items include posters of up-coming events, UBC ITE sponsor posters, transportation related newspaper articles, ITE Journal, etc.



FIGURE 6 UBC ITE DISPLAY CASE

4.3 Chapter Website

UBC ITE also uses the means of a website to circulate information regarding ITE. The current website is www.ubcite.org. Unfortunately, the website has not been updated due to an on-going search for a new webmaster. The website will be updated as soon as a webmaster is found.

4.0 FINANCIAL SUMMARY

This year UBC ITE has invested in various activities to promote our student chapter and the field of transportation engineering. This year we have also sought industry sponsorship which has proved to be a success. The UBC ITE Student Chapter received funding from the Greater Vancouver Section of ITE, the Bunt and Associates, PTV America and Opus Hamilton.

The following is a list of expenses incurred in the 2007-2008 academic year.

UBC ITE FINANCIAL SUMMARY - SEPT 2007 TO APR 2008		
Item	Expense	Income
Opening Balance	\$1,869.17	
Starbucks Gift Cards (Prizes)	\$25.00	
TJ Pizza	\$40.00	
First Meeting Coffee	\$8.00	
GVITE October Meeting	\$60.00	
Membership Fees NE	\$21.00	
IN -Food	\$275.63	
IN -Food	\$32.79	
IN-Coffee/Tea	\$36.28	
IN-Plates	\$6.98	
IN-Sushi	\$94.76	
IN-Posters	\$28.41	
Envelops & Stamps	\$12.70	
Presentation Prize	\$200.00	
Liquor License	\$26.71	
Serving-it-right upgrade	\$10.00	
Membership Fees TD	\$21.00	
GVITE February Meeting	\$30.00	
Sponsorship - Bunt		\$500.00
Sponsorship - PTV		\$100.00
Expected Expenditures/Incomes		
Sponsorship – Opus Hamilton		\$100.00
Sponsorship - GVITE		\$200.00
PAF		\$700.00
CITE/Quad Conference	\$700.00	
Appreciation Dinner	\$200.00	
TOTAL	\$1,829.26	\$1,600.00

5.0 SUMMARY

The academic year to date for the student chapter of ITE at UBC has been marked with numerous successes. With excellent attendance at the Field Trip, Industry Night and the Driving simulator events the executive eagerly looks forward to the next month which will include another field trip and the completion of the course review. Through these and other initiatives, the UBC ITE Student Chapter will continue to strive towards its goals of:

- Promoting the field of transportation;
- Enriching the transportation-related knowledge of UBC civil engineering students;
- Demonstrating the possibilities for employment in transportation engineering; and
- Facilitating networking between the local student and professional communities.

APPENDIX: STUDENT CHAPTER MEMBERSHIP

The following is a full list of the student members this year:

STUDENT MEMBERS

1. Amin Asgari	BASc 2008	12. Tala Mobayen	BASc 2008
2. Elham Boozarjomehri	MASc	13. Sepehr Mohaghegh	BASc 2008
3. Tanya Duamel	BASc 2008	14. Jim Ng	BASc 2008
4. Jared Duivestein	BASc 2011	15. George Otieno	BASc 2008
5. Natasha Elliott	BASc 2008	16. Michael Owen	BASc 2008
6. Graham Girard	BASc 2008	17. Behin Phua	BASc 2010
7. Shezana Islam	BASc 2008	18. Nagres Sadat	
8. Xiangyun Jiang	BASc 2009	19. Joel Shimosama	BASc 2008
9. Gloria Kwong	BASc 2009	20. James Sun	MASc
10. Ben Hong Lau	BASc 2008	21. Christon Siu	BASc 2008
11. Eric Mital	MEng		