

ROAD SAFETY
&
RISK MANAGEMENT
FOR BICYCLE FACILITIES
WORKSHOP

October 10, 2018
Ivey Tangerine Leadership Ctr.
130 King St. West.
Toronto, ON

Register online at:
www.otc.org/events

Ontario Traffic Council
www.otc.org



ROAD SAFETY & RISK MANAGEMENT FOR BICYCLE FACILITIES WORKSHOP

Ontario municipalities have been implementing active transportation (AT) facilities into their urban and rural transportation systems at a record pace over the past decade. These facilities, in whole or in part, share our roadways, transit and rail corridors, sidewalks, and crosswalks. As more Ontarians embrace AT in their daily commute, exercise, and recreation routines, municipalities must continuously assess the planning, design, operations, and maintenance of the infrastructure to ensure safe travel are provided to vulnerable road users.

This comprehensive one-day course encompasses all aspects of on-road and off-road bicycle facility safety. The day will begin with an overview of the state-of-the practice in road user safety, common bicycle facility safety issues, and potential contributory factors. The remainder of the course systematically walks the participants through modules on planning and designing on-road, shared use and rural bicycles facilities for safety, intersection and interchange treatment, delineation and access control, at-grade rail crossings, bridges, roundabouts, and roadside safety. Each module includes cases studies from actual in-service safety reviews, safety audits and/or legal cases in Ontario, and direct linkages to primary industry resources. Midday participants will walk to two nearby on-street bicycle facilities for a “hands on” bicycle safety review.

Learning Objectives

After successfully completing the workshops participants should be able to:

- Understand the state-of-the-practice in road safety engineering as it relates to bicycle facilities and operations.
- Identify common bicycle design, operations and maintenance safety concerns, and potential hazards on our facilities and networks, and select proven and low-cost countermeasures and remedial actions.
- Review and develop policies and practices to improve bicycle safety.
- Identify potential operational/safety issues and potential hazards of a proposed plan or design through a safety audit or preliminary risk assessment exercise.
- Locate readily available key resources related safety, design, operations, and maintenance.

Who Should Attend

This course would be of benefit for the following staff involved in transportation planning, design, and operations, as well as maintenance of roads, sidewalks, trails, and paths:

- Transportation planners;
- Transportation engineers/technologists;
- AT managers and their staff;
- Public works and road maintenance personnel; and
- Others involved in the management, operations, and maintenance of roadways, sidewalks, and other pedestrian facilities.

ABOUT THE INSTRUCTORS:



Russell Brownlee, M.A.Sc., FITE, P.Eng. Russell is the President and Transportation Safety Engineering at True North Safety Group, where he provides expert opinions in the areas of transportation system design, operations, and maintenance, primarily related to road and rail facilities. Russell is a recognized expert in undertaking in-service safety reviews of transportation facilities. He has completed safety reviews for the Ministry of Transportation of Ontario and many of regions and major municipalities in Ontario. He has completed a preliminary risk assessment for proposed bicycle facilities and alternatives in the Region of Waterloo and the City of Ottawa. Russell has completed comprehensive pedestrian safety reviews along the Region of Durham corridors bordering the UOIT Durham College and Whitby GO train sites, and at a Metrolinx pedestrian at-grade railway crossing. Currently, Russell is part of project teams responsible for updating OTM Book 18, reviewing rural bicycle facilities in Burlington, and evaluating bicycle facilities through the Highway 400/Jane Street interchanges.

Russell was invited to present at OTC's 2016 Annual Meeting on the topic of Safety and Risk Management of Our Active Transportation Systems, and had an article published in Municipal World Magazine titled: *Active Transportation: Is your municipality adequately responding to this revival?*



Alex Nolet, M. Eng., P. Eng. is Vice-President at True North Safety Group. Alex has over ten years of experience in the transportation consulting industry where his focus has been road safety, traffic operations and collision analysis. Alex provides independent opinion to legal matters related to the design, construction, operations and maintenance of transportation facilities including intersections, interchanges, highways, walkways/trails, bike infrastructure, and railway crossings.

Alex's project/file experience has included detailed examinations of the location, design, and operations of bicycle treatments including separated bike lanes and crossrides in a number of municipalities across Ontario. He is currently involved in the City of Burlington Rural Active Transportation Strategy project for which he is responsible for conducting safety reviews at trail crossings. He is a member of the Institute of Transportation Engineers (ITE) and is on the Vice-President of the Canadian Association of Road Safety Professionals (CARSP). He currently leads a CITE committee completing a state-of-the-practice review of accessibility guidelines in Canada.



RSRM WORKSHOP

Ivey Tangerine Leadership Centre, 130 King St. West, Toronto, ON

Wednesday, October 10, 2018

Wednesday, October 10, 2018	
8:30 am to 9:00 am	Breakfast & Registration
9:00 am	Introduction
9:15 am	Introduction to Active Transportation Safety Risks
9:30 am	Safety Analysis Methods
9:45 am	Dominant Bicycle Collisions/Conflict types and Contributory Factors
10:15 am	Break
10:30 am	Planning and Designing On-Road Facilities for Safety
11:00 am	Case Study Exercise
11:30 am	Planning and Designing Rural and Shared Use Cycling Facilities for Safety
12:00 pm	Lunch
12:45 pm	Intersections, Interchanges and Transitions
1:15 pm	Field Visit and Safety Review

2:15 pm	Break/Field Investigation Summary
2:30 pm	Delineation, Access Control and Markings
3:00 pm	Unique/Specific Features at Grade Rail Crossings, Bridges, Roundabouts, Roadside Safety
3:45 pm	Summary and Discussion



REGISTRATION FORM

Register online at www.otc.org/events

or

Return completed form to traffic@otc.org or fax to 647-346-4060

OTC Members: \$375+HST Non-Members: \$425+HST	
First Name	
Last Name	
Company	
Position	
Business Address	
Telephone	
Email	

PAYMENT INFORMATION:

Cheques can be made payable to Ontario Traffic Council

Credit Card Payment:

**A receipt will be emailed when your payment has been processed.*

VISA/MC #	
Exp. Date	
Name on Card	