

The Principles of Urban Traffic and Transportation

20-Week Evening Lecture Series, Toronto January 2020 - June 2020

Organized by



PTRC in partnership with the Toronto Section of The Institute of Transportation Engineers and Chartered Institute of Logistics and Transport North America







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Introduction

The transportation system is being asked to play a greater role in society these days as we strive to move people, fuel the economy, be more energy efficient, and address the role of the automobile in climate change. These are broad themes that will affect the transportation profession for years to come, however at the 'street level' there is still the day-to-day of designing, operating, evaluating and improving the local transportation system in our cities and towns.

Whether you are new to the transportation industry, are looking to refresh your knowledge on transportation principles, or if you have taken on a new responsibility or are working in a 'niche area' and wish to broaden your knowledge, PTRC's 20 week evening lecture series offers a cost-effective and time-inexpensive training course that will beneft both the participating employee and their employer.

This evening seminar program has been running in Europe for over fifteen years. After the success of the program in Toronto in 2018 -2019, PTRC will again be running the series from January 2020 - June 2020.

Structure

The series will consist of 20 lectures delivered by local experienced transportation practitioners from consultancies, local authorities and governments, who are experts in their field. Presenters will be drawn from consulting firms, local agencies, academia and other government bodies. Each lecture will cover a specific topic and the content has been developed to cover the typical principles of a transportation scheme.

Tutors will be encouraged to design interactive sessions to accompany their talk and there will be plenty of time for discussion and questions, and may also open up opportunities for networking.

Certificate of Attendance



Delegates attending a minimum of 80% of the seminars will be awarded a CPD certificate of attendance. Each lecture counts as one hour CPD.

Cost for the lecture series

Standard fee: \$1200 Full series of seminars

Student fee: \$600

Limited student places available

ITE/CILTNA member: \$1080

Five pack: \$400 Select any five modules

Individual modules: \$80 each



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Programme

Module 1

Transport Policy Introduction

- National, regional and local policies
- Land use polices
- Policy framework
- Mix of urban transportation modes

Module 2

Agency Roles and Responsibilities

- Levels of government
- Regulatory framework
- Transport planning operations
- Funding

Module 3

Data Collection

- Need for data
- Forms of data collection
- Emerging techniques
- Processing, interpreting & reporting
- Health and safety

Module 4

Traffic Flow, Speed and Capacity

- Speed flow relationship
- Capacity and level of service
- Junction delays
- Traffic simulation and visualization

Module 5

Urban Street and Highway Design

- Design Principles
- Signage and lighting
- Access management
- Context-sensitive design

Module 6

Traffic Management

- Laws and regulations
- Efficiency and safety objectives
- Traffic management techniques
- Active traffic management

Module 7

Parking

- Policies and standards
- On- and off- street parking issues
- Management and enforcement
- Parking for new development

Module 8

Traffic Signal Control

- **Justification**
- Capacity and coordination
- Pedestrians and cyclists
- Use of models
- ITS

Module 9

Unsignalized Intersections

- Functional classification
- Design standards
- Non signalled intersection
- Roundabouts
- **Urban Streets**

Module 10

Road Safety

- Canadian safety record
- Types of accidents
- Education, training & enforcement
- Road safety audits

Module 11

Speed management

- Traffic calming
- Types of speed management
- Use of cameras
- Homezones

Module 12

Walking, Cycling and Accessibility

- Policies and strategies
- Non-motorized transportation
- **Bikeways**
- Wayfinding
- Social inclusion and accessibility

Module 13

Public Transportation: Bus

- Policy objectives
- Scheduling, planning & operations
- Fares and ticketing
- Performance monitoring

Module 14

Public Transportation: Rail

- Policy objectives
- Commuter Rail
- Stations and interchanges
- Special needs transportation
- Ferries, Taxis, jitneys

Module 15

Transportation Modelling 1

- Fundamentals of modelling
- Relevance of various models
- Geographical information systems
- Data requirement

Module 16

Transportation Modelling 2

- Four stages of modelling
 - Applications and Limitations
- **Emerging modelling**

Module 17

Transport Economics and Appraisal

- Microeconomic concepts
- **Project evaluation**
- Framework appraisal
- Equity issues in transportation
- **Environmental effect**

Module 18

Transportation and Land Development

- Land use/transportation interaction
- Trip generation
- Transport impact assessments
- Mitigation strategies

Module 19

Managing Demand

- Definition
- **Applications**
- 'Soft' vs. 'hard' measures
- Travel planning
- Passenger and freight

Module 20

Consultation and Participation

- Regulatory requirements
- Public involvement
- Communication strategies
- Media relations

Further booking information

For further information or to book on to the series, please fill in the attached form and send to info@ptrc-training.co.uk

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Registration Form

Title		First Name				Surname				
Position										
Organisation										
Email										
Telephone										
Address										
					Postal Code					
Payment Details: (Please tick as appropriate)										
Fees:	Standard: \$1200 + GST/PST			Rover ticket: \$1200 + GST/PST Student: \$400 + GST/PST					400 + GST/PST	
CILTNA Members: \$1080+ GST/PST					Individual Seminar: \$60 + GST/PST					
Method of Payment: Visa Mastercard BACS										
Card Number							CSV Coc	le	Expiry Date	
Card Holder's name and address (if different from above)										
Postal Code				Purchase	Order Numb	er				
Signature Authorsation I have read and accept the terms and conditions Please return form to The Registration Office PLOC Education & Personarch Services Ltd.										

The Registration Office
PTRC Education & Research Services Ltd
22 Greencoat Place, London UK
SW1P 1PR

Signature BACS

SWIFTBIC: BARCGB22

Date IBAN: GB39 BARC2045 7750 5364 66 Sort Code: 20-45-77

Sort Code: 20-45-77 Account Number: 50536466





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Terms & Conditions

1 Registration Form Applications should be made on the official registration form. Photocopies are accepted. One form should be completed for each delegate attending the event. It is important that all sections are completed legibly. Delegates are advised to retain a copy of the registration form for reference before sending. 2 Fee Fees include attendance at ectures, lecture notes, lunch and all refreshments unless otherwise indicated. Fees do not include overnightaccommodation, breakfast and evening meals. 3 Acknowledgement Receipt of a registration form will be acknowledged by email, delegates will be sent an invoice and an email of acknowledgement. Joining instructions, including a map, will be sent to each delegate by email approximately two weeks before the start of the event. 4 Payment Unless otherwise stated payment in full must be made at the time of booking. All prices are exclusive of GST/PST, unless stated otherwise. 5 Cancellation All cancellations, or alterations to a booking, must be received in writing. To avoid cancellation penalties, substitutes will be accepted at any time, if notified in writing and in advance of the event. Adjustments in fees will be made if there is any change in fee category. Cancellations received in writing up to 14 days before an event will be subject to an administration fee of \$120 or the event delegate fee whichever is the lower. Cancellation within 14 days of the event date or a 'no show', will be liable for the full fee. 6 Disclaimer PTRC reserves the right to vary the programme and to cancel an event if it is under subscribed or for any other reason. In the event of cancellation, where reasonably possible, PTRC aims to give delegates at least two weeks' notice and the fee will be refunded in full. PTRC will not be held liable for any prebooked travel, accommodation or similar costs incurred under any circumstances whatsoever. 7 Data Protection Details will be held on a database in accordance with the UK 1998 Data Protection Act. Information will be used for intern