

# CURRICULUM VITAE

## ERIC JOHN MILLER

### RANK AND STATUS

Professor, Tenured, full-time  
Member, continuing, School of Graduate Studies  
Adjunct Professor, part-time (status only), Department of Civil Engineering, McMaster University  
Adjunct Professor (status only), Graduate Program in Planning, Dept. of Geography, University of Toronto  
Full Member, graduate faculty, Centre for Environment, University of Toronto  
Cross-Appointment (status only), School of Public Policy and Governance, University of Toronto

### PERSONAL

Born June 9, 1951, Fort Erie, Ontario. Married, 2 children.

**Citizenship:** Canadian

#### Addresses:

##### Office:

Cities Centre  
University of Toronto  
455 Spadina Avenue, Suite 400  
Toronto, Ontario  
M5S 2G8  
Tel: (416) 978-4076  
Fax: (416) 978-7162  
e-mail: miller@civ.utoronto.ca  
<http://www.civil.engineering.utoronto.ca/staff/professors/miller.htm>

##### Home:

14 Bain Avenue  
Toronto, Ontario  
M4K 1E6  
(416) 469-4022

### UNIVERSITY EDUCATION

- |         |  |      |
|---------|--|------|
| Ph.D.   | Civil Engineering, Massachusetts Institute of Technology<br>(Transportation Systems)<br>Thesis: "A Disaggregate Choice Model of the Retail Firm"<br>(Supervisor: S.R. Lerman)  | 1978 |
| M.A.Sc. | Aerospace Studies, University of Toronto<br>Thesis: "The Calibration of the Vampire I Axial-Flow Lift System"<br>(Supervisor: P.A. Sullivan)   | 1975 |
| B.A.Sc. | Engineering Science, University of Toronto<br>Thesis: "Application of Technological Forecasting Techniques to Project Trends in the Development of an Amphibious Air Cushion Vehicle for Northern Canadian Use"<br>(Supervisor: P.A. Sullivan) | 1973 |

## **ERIC JOHN MILLER**

### **ACADEMIC EXPERIENCE**

<b>Dates</b>	<b>Position</b>	<b>Institution</b>
2008-present	Director	Cities Centre, University of Toronto
2007-2008	Director	Urban Transportation Research & Advancement Centre, University of Toronto
1997-2007	Director	Joint Program in Transportation, University of Toronto
2007 (Sept.-Dec.)	Interim Chair	Dept. of Civil Engineering, University of Toronto
2003 (July-Dec.)	Acting Chair	Dept. of Civil Engineering, University of Toronto
1998 - 1999	Acting Chair	Dept. of Civil Engineering, University of Toronto
1990 - present	Professor	Dept. of Civil Engineering, University of Toronto
1985 - 1990	Associate Professor	Dept. of Civil Engineering, University of Toronto
1983 - 1985	Assistant Professor	Dept. of Civil Engineering, University of Toronto
1979 - 1983	Visiting Assistant Professor	Dept. of Civil Engineering, University of Toronto
1978 - 1979	Assistant Professor	Dept. of Civil Engineering and Engineering Mechanics, McMaster University
1975 - 1976	Teaching Assistant	Dept. of Civil Engineering, M.I.T.
1973 - 1975	Teaching Assistant	Engineering Science, University of Toronto

### **PROFESSIONAL EXPERIENCE**

<b>Dates</b>	<b>Position</b>	<b>Institution/Company</b>
1980 - 1983	NSERC University Research Fellow	University of Toronto/York University Joint Program in Transportation
1979 - 1980	Research Associate	University of Toronto/York University Joint Program in Transportation
1976 - 1977	Graduate Research Assistant	Department of Civil Engineering, M.I.T.
1973 - 1975	Graduate Research Assistant	Aerospace Engineering and Civil Engineering, University of Toronto

### **AWARDS AND HONOURS**

Charley V. Wootan Best Paper Award, US Transportation Research Board Annual Meeting (2011)  
Wilbur S. Smith Distinguished Educator Award. Institute of Transportation Engineers (2009)  
Pyke Johnson Best Paper Award, US Transportation Research Board Annual Meeting (2008)  
Member Emeritus, US TRB Transportation Demand Forecasting Committee (2008 - present)  
Bahen-Tanenbaum Chair, University of Toronto (2000-2008)  
University Research Fellowship, Natural Science and Engineering Research Council (1980-1983).  
M.I.T. Center for Transportation Studies Fellowship (1977-1978).  
Transportation Development Agency Fellowship (1975-1976).\*  
University of Toronto Connaught Scholarship (1975-1976).\*  
National Research Council (Canada) Fellowship (1974-1975).  
University of Toronto Open Fellowship (1973-1974).  
Mary H. Beatty Award (University of Toronto Admissions Scholarship) (1969-1973)  
R.H. Davis Scholarship (1969-1973).  
Ontario Scholarship (1969-1970).  
\* Declined to attend M.I.T.

### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Lambda Alpha International, Honorary Society for the Advancement of Land Economics, Simcoe  
Chapter (2009-present)  
World Conference on Transport Research Society (2007-present)  
International Association for Travel Behaviour Research (1997-present)  
Regional Science Association International (1987-present)  
Transportation Association of Canada (1983-present)  
Transportation Research Board (1982-present)  
Canadian Regional Science Association (1987-2000)  
Applied Regional Science Conference (1989-1990)

## **ERIC JOHN MILLER**

### **MEMBERSHIP ON TECHNICAL & ACADEMIC COMMITTEES**

#### **International Association for Travel Behaviour Research (IATBR):**

Chair, Organizing Committee, 13<sup>th</sup> International Conference, Toronto, 2012

Executive Board Member (2006-present)

Chair (2008-2009)

Vice-Chair (2006-2007)

Member of International Conference Scientific Committees (1991, 1994, 1997, 2000, 2003, 2009)

Chair, Selection Jury, IATBR Eric I. Pas Ph.D. Dissertation Prize (2003-04) (Member, 2001-2003)

Member, Selection Jury, IATBR Lifetime Achievement Award (2003)

#### **U.S. National Academies:**

Committee for Determination of the State of the Practice in Metropolitan Area Travel Forecasting (2004-2007)

#### **Transportation Research Board (U.S.):**

Chair, Travel Behavior and Values Committee (2009-present)

Travel Behavior and Values Committee (2008-present)

Chair, International Travel Behavior Subcommittee (2008-2009)

Chair, Subcommittee on Integrated Transportation and Land Use Modeling (2000-2009)

Subcommittee on Emerging Travel and Activity Modeling Methods (1998-present)

Transportation Demand Forecasting Committee (1982-2008; Member Emeritus 2008-present).

Task Force on Moving Activity-Based Approaches to Practice (2003-2008)

Transportation Supply Analysis Committee (1989-1996).

#### **Transportation Association of Canada:**

Transportation Planning Standing Committee (1983-1997; Chair, 1983-1986).

Transit Planning Standing Committee (1989-1991)

Chair, Project Advisory Committee, "Future Directions for Transportation Models" (1988)

Planning Management Committee (1983-1986)

Canadian Transit Handbook Joint Editorial Committee (1982-1985)

#### **Journal Editorships:**

Member, Editorial Board, *Transportation Letters* (2008-present)

Member, Editorial Board, *Journal of Transport and Land Use* (2007-present)

Member, Editorial Board, *Transport Reviews*, (2001-present)

Editor, *Transportation* (2002-2004)

Associate Editor, *Canadian Journal of Civil Engineering* (1996-1998)

#### **Other:**

Reviewer of research proposals for: Natural Science and Engineering Research Council (Canada); National Science Foundation (USA); University of California Institute of Transportation Studies; Australian Research Council; Swiss Federal Institute of Technology (ETH) Zurich; Netherlands Organisation for Scientific Research.

Reviewer for academic journals, including: *Environment and Planning*, *Transport Reviews*, *Transportation Research Record*, *Transportation Research*, *Journal of Transportation Engineering*, *Transportation*, *Transportation Forum*, *Transportation Science*, *Logistics and Transportation Review*, *Urban Studies*, *Journal of Regional Science*.

Member, Steering Committee, Designing Transit Cities Symposium 2009, Toronto

Member, Advisory Committee, Canadian TDM Summit 2009, Toronto (2008-2009)

Member, Program Committee, Int. Workshops on Optimisation of Urban Transport Systems (2004-05)

Member, Paper Selection Committee, Transportation Planning Session, 1997 World Meeting of the International Road Federation, Toronto

## ERIC JOHN MILLER

### UNDERGRADUATE STUDENTS' THESES SUPERVISED (Lifetime: 124; Last 5 years: 11)

Year	No.	Students
2011-12	2	Chingcuanco, F.; Sun, Jonathan
2009-10	1	Kucerik, P.
2008-09	2	Lau, J.; Wang, J.
2007-08	1	Mullins, K.
2006-07	3	Hao, J.; Dela-Cruz, G; Shin, S.
2005-06	4	Day, N.; Kwan, S.; Lee, C.; Tanebe, U.
2004-05	3	Fegan, D.; Ting, S.; Weldon, M.
2003-04	3	Cheng, N.; Lee, D.; Wolff, R.
2002-03	4	Iammarino, M; Lee, R.; Ngau, G.; Ormande, J.
2001-02	5	Guan, J.; Liu, A.; Seegobin, A.; Sousa, P.; Ye, S.
2000-01	12	Chan, E.; Chung, M.; Chung, W.; Lee, J-Y.; Lee, K.; Mendonca, N.; Mok, J.; Nawbett, K.; Patman, D.; Wong, A.; Yu, L.; Zuccaro, M.
1999-00	17	Abbatangelo, J.P.; Chen, A.; Chow, T.; Eberhard, L.; Grinspun, Y.; Ip, J.; Lee, A.; Mastrangelo, G.; Mostafa; H.; Ng, A.; Poon, W.; Ragusa, C.; Salazar, F.; Soans, N.; Sosnowski, M.; Traub-Werner, D.; Wong, R.
1997-98	2	Li, G.; Vacca, A.
1996-97	3	Brown, R.; Chan, R., Lee, J.
1994-95	5	Eta, T.; Kopec, A.; Oefner, D.; Osadet, B; Wong, N.
1993-94	3	Brotherton, N.; Cureton, C.; Meile, C.
1992-93	3	Haroun, A.; Karwel, R.; Law, K.
1991-92	7	Ivanov, E.; Foster, J.; Lam, J.; Morrison, R.; Tadesco, R.; Tam, L.; Zan, K.
1990-91	7	Kulathinal, K.; Mukerji, D.; Nicholson, W.; Palys, R.; Ryckman, G.; Sureshan, S.; Whitworth, P.
1989-90	7	Bartos, P.; Bishara, J.T.; Carneiro, K.; Hariri, O.; Kleine, R.J.; Rocha, A.; Tsui, H.
1988-89	1	Murray, C.
1987-88	5	Bailey, G.; Cheung, A.; Ng, H.; Thorburn, S.; Wong, D.
1986-87	7	Arcaro, J.; Chan, C.Y.; Graham, T.; Mederios, J.; Presot, R.; Volk, D.; Wong, K.C.
1985-86	4	Cheah, L.S.; Cheng, W.W.S.; Shibuola, S.; Ying, C.C.
1984-85	6	Evangelista, S.; Gargaro, D.; Ho, A.K.Y.; Miyasaki, G.W.; Noehammer, P.J.; Siu, I.W.M.
1983-84	6	DiSerio, D.; Fuda, D.; Heit, A.C.; Ng, J.C.N.; Rothman, C.H.; Tai, K.K.W.
1982-83	2	Gibson, W.S.; Sarjeant, P.M.
1979-80	1	Murray, G.T.

### POST-DOCTORAL FELLOWS SUPERVISED Lifetime: 11; Last 5 years: 6)

Name	Years
Mercado, R. <sup>2</sup>	2009-2011
Hatzopoulou, M.	2008-2009
Habib, K.M.N.	2007-2008
Elgar, I.	2007 (Sept-Dec)
Carrasco, J.A.	2006 (Sept-Dec.)
Buliung, R. <sup>1</sup>	2005
Mohammadian, A. <sup>1</sup>	2002-2003 (co-supervised with P.S. Kanaroglou, McMaster University)
Doherty, S.D. <sup>2</sup>	1999-2001 (co-supervised with M. Lee-Gosselin, Laval University)
Badoe, D.A.	1994-96 (co-supervised with G.N. Steuart)
Hassounah, M.I.	1993-94 (co-supervised with G.N. Steuart)
Fan, K.S.	1992-93

<sup>1</sup> NSERC Post-Doctoral Fellow

<sup>2</sup> SSHRC Post-Doctoral Fellow

## ERIC JOHN MILLER

### GRADUATE STUDENTS' THESES SUPERVISED

	MEng	MASc	MscPL	Other Masters	PhD	Total
Current	1	3.0	0	0	2.5	6.5
Completed, Last 5 years	1	12.5	2	0.5	7.5	23.5
Completed, Lifetime	10	40.0	11.5	1.5	14.5	77.5

Student	Thesis Title	Degree	Year
Duiveststein, Jared	Tour-based Mode Choice Modelling	M.Eng.	2011-present
Wenzhu Liu	An Integrated Urban model for Beijing (co-supervised with Prof. Gang Zong, Beijing University of Technology)	Ph.D.	2011-present
Tony Harapin	Integrated Urban Energy Modelling	Ph.D.	2011-present
Leila Dianat	ILUTE Modelling	Ph.D.	2011-present
Adam Harmon	Urban Travel Demand Modelling	MASc	2011-present
Erin Toop	Transportation Planning in Small-Medium Sized Cities	MASc	2011-present
Kucerik, P.	Testing MATSIM transit assignment within TASHA	MASc	2010-present
Wang, J.	Non-Work/School Destination Choice Modelling	MASc	2011
Forsey, D.	Assessment of VIVA Service Impacts on Transit Ridership (co-supervised with A. Shalaby)	MASc	2011
Lightstone, A.	Analysis of Congestion Charging Alternatives for the GTA (co-supervised with Prof. M.B. Hugosson, KTH Royal Institute of Technology, Sweden)	M.Sc. (KTH, Sweden)	2011
Hain, M.	Labour Market Model of the Greater Toronto and Hamilton Area for Integration within the Integrated Land Use, Transportation, Environment Modelling System (co-supervised with Prof. M. Roorda)	MASc	2010
Farooq, B.	Evolution of Urban Built Space: Markets and Decisions	Ph.D.	2010
Giroux-Cook, M.	Microsimulating the Rental Sector in the GTA	MASc	2010
Williams, M.	Coordinated Land Use and Transportation Planning – A Sketch Modelling Approach	MASc	2010
Cermak, S.	“Greener Roads for Toronto”	Msc.Pl.	2010
Habib, M.A.	“Microsimulating Residential Mobility and Location Choice” Processes within an Integrated Land Use and Transportation Modelling System”	Ph.D.	2009
Santos, B.F.L.	“Road and Transit Network Planning with Efficiency, Robustness and Equity Criteria (co-supervised with Prof. A. Antunes, University of Coimbra, Portugal)	Ph.D (Coimbra)	2009
Hao, J.	“TASHA-MATSim Integration and its Application in Emissions Modelling”	MASc	2009
Gao, W.	“Comparison between MATSIM and EMME/2 on the Greater Toronto and Hamilton Area Network”	MASc	2009
McElroy, D.	“Modelling Transit Pass Ownership”	MASc	2009
Hatzopoulou, M.	“An Integrated Multi-Model Approach for Predicting the Impact of Household Travel on Urban Air Quality on Simulating Population Exposure”	Ph.D.	2008
Pritchard, D.	“Synthesizing Agents for Land use Transportation Modelling: Connecting Persons to Dwellings”	MASc	2008
Day, N.	“The Joint Modelling of Trip Timing and Mode Choice”	MASc	2008
Haroun, A.	"Microsimulating Residential Housing Markets"	Ph.D.	1999-2007
Elgar, I.	“Modelling Office Mobility and Location Decisions in a Microsimulation Environment”	Ph.D.	2007
Mohammed, A.	“Modelling the Bus Transit Network Evolution” (co-supervised with A. Shalaby)	Ph.D.	2007
Au, A.	“Transit Oriented Design in the New Spadina Subway Corridor”	Msc.Pl.	2007
Habib, K.M.N.	“Modelling Activity Generation Processes”	Ph.D.	2007
Egger, J.	“Impact of Transit Network Connectivity on Transit Use”	M.Eng.	2006
Carrasco, J.A.	“Social Activity-Travel Behaviour: A Personal Networks	Ph.D.	2006

**ERIC JOHN MILLER****GRADUATE STUDENTS' THESES SUPERVISED (continued)**

<b>Student</b>	<b>Thesis Title</b>	<b>Degree</b>	<b>Year</b>
Coleman, J.	Approach” “Evaluating User Preferences for Public Transit Technologies in the Greater Toronto Area”	MASc	2006
Li, L.C.	“Analysis of Mode Split and Related Factors for Selected Study Areas in the Greater Toronto Area” (co-supervised with A. Shalaby)	MASc	2006
Mehta, P.	“Effects of Spatial Location, Socio-Economics, and Gentrification on Travel Behaviour for Selected Study Areas in the Greater Toronto Area”	MASc	2006
Green, L.	“The Influence of Urban Form on Travel Behaviour in the Greater Toronto Area” (co-supervised with C.A. Kennedy)	MASc	2006
Ye, S.	“A Framework for Evaluating Sustainable-Transportation-Related Land Use Strategies”	M.Eng.	2005
Roorda, M.	“Activity-Based Modeling of Household Travel”	Ph.D.	2005
Litwin, M.	“Dynamic Household Activity Scheduling Processes”	Ph.D.	2005
Zhang, J.	“Effectiveness of Transportation Budgeting and Spending in Canadian Municipalities” (Co-supervised with J. Farrol)	MscPL	2005
Austin, R.	“Building Around Transit in the Restructuring Metropolis”	MscPL	2005
Peiravian, F.	“Road Network Modelling for Environmental Impact Analysis”	Ph.D.	1996-2004
Riesen, E.	“Assessment of the ‘Station Car’ Concept in the GTA”	MscPL	2004
Maybe, S.	“The Mid-Peninsula Highway: A Smart Growth Solution or Problem?”	MscPL	2004
Tsang, F.	“Accessibility and Economic Productivity” (co-supervised with C. Kennedy)	MASc	2004
Sousa, P.	“Performance-Based Transit Funding”	MASc	2004
Ranjan, K.	“Application of UrbanSim to the Hamilton Region”	M.Eng.	2003
Mamun, S.	“Modelling Express Bus Services”	MASc	2003
Salvini, J.	“Traffic Design Guidelines for ‘Big Box’ Retail Centres”	M.Eng.	2003
Gibson, A.	“Integrated Mobility System Implementation in York Region”	MscPL	2003
Salvini, P.	“Design and Development of the ILUTE Operational Prototype: A Comprehensive Microsimulation Model of Urban Systems”	Ph.D.	2003
Haider, M.	“Spatio-Temporal Modelling of Housing Starts in the Greater Toronto Area”	Ph.D.	2003
Lo, H.	“Planning for Sustainable Transportation”	M.Eng.	2003
Ciavarro, M.	“GO Transit: Oakville Station Parking, Economic Feasibility and Options”	MscPL	2002
Houde, R.	“Pricing Public Transit: A Model Based Evaluation”	MscPL	2002
Sone, M.	“The Investigation of Land-Use and Alternative Transportation Policies in the City of Barrie”	MscPL	2002
Eberhard, L.	“A 24-Hour Household-Level Activity-Based Travel Demand Model for the GTA”	MASc	2002
Grinspun, Y.	“Taxiway Delay and Predictability at Pearson International Airport”	MASc	2002
Lee, A.	“Analysis of Personal-Use Vehicle Emissions in the Greater Toronto Area, 1986-1996”	MASc	2002
Poon, W.	“An Investigation into Residential Relocation Rules and Processes”	MASc	2002
Mohammadian, A.	“Dynamic Modelling of Household Automobile Transactions within a Microsimulation Framework”	Ph.D.	2001
Nazar, C.	“Options for Replacing the Gardiner Expressway”	MscPL	2001
Cugalj, S.	“Application of the Chinese Postman Model to the Toronto Transportation Network within GIS-Based Software”	MASc	2001

## ERIC JOHN MILLER

### GRADUATE STUDENTS' THESES SUPERVISED (continued)

Student	Thesis Title	Degree	Year
Becarra, A.	“Exploratory Review of Motorization Trends, Its Impact” on Global Warming and Policy Recommendations for Developing Countries”	MASc	2000
Lee, C.	“A Micro-scale Simulation Model of Carbon Dioxide Emissions from Passenger Cars Using Classification and Regression Methods”	MASc	2000
Haider, M.	“Developing Hedonic Price Indices for Freehold Properties in The Greater Toronto Area: Application of Spatial Autoregressive Techniques”	MASc	1999
Putra, E.	“A Simulation Model of Vehicular Modal Emissions”	M.Eng.	1998
Pushkar, A.	“Modelling Household Residential Search Processes: Methodology and Preliminary Results of an Original Survey”	MASc	1998
Roorda, M.	“Toronto Area Car Ownership Survey: Survey Design and Preliminary Results”	MASc	1998
Elmi, A.	“Analysis of the Temporal Transferability of Work Trip Distribution 'Gravity Models”	MASc (Carleton)	1998
Doherty, S.	“The Household Activity-Travel Scheduling Process: Computerized Survey Data Collection and the Development of a Unified Modelling Framework”	Ph.D.	1998
Salvini, P.	“The Architectural Design of 'ILUTE', An Integrated Dynamic Microsimulation Framework”	MASc	1998
Ibrahim, A.	“Investigation of the Relationship between Urban Spatial Structure and Travel Demand in the GTA”	MASc	1996
Vladislavljevic-Vojinovic, D.	“An Investigation of Nested Logit Structures for Work Trip Mode Choice Models”	MASc	1996
Georgi, A.	“The Effects of Land use Planning and Urban Design on Travel Behaviour at the Small Spatial Scale (co-supervised with Prof. G.O. Braun, Free University, Berlin)	M.A. (Free University, Berlin)	1996
Hollingworth, B.	“The Development of a Residential Mobility Model Using Retrospective Survey Data”	MASc	1995
Bolanowska, M.	“Investigation of Students' Trip Making Behaviour in the Hamilton-Wentworth Area”	MASc	1994
Badoe, D.	“An Investigation into the Long Range Transferability of Work-Trip Discrete Mode Choice Models”	Ph.D.	1994
Jea, D.	“A Trip Prediction Model Based on Density Stratification of the GTA”	MASc	1990
Bailey, G.	“An Analysis of Travel Patterns and Mode Choice to the Central Area of Toronto”	M.Eng.	1989
Rhamey, W.	“Behavioural Modelling of Household Mode Choice”	M.E.S. (York)	1989
Cheah, L.	“An Operational Model of Residential Search Intensity”	MASc	1988
Cheng, W.	“Modelling the Spatial Component of Residential Search”	MASc	1988
Farrol, B.	“MADITUC: A Transit Operations Planning Model for the Greater Toronto Area”	M.Eng.	1988
Ho, A.	“The Queen Streetcar Simulation Model”	MASc	1988
Lee, S.	“Interactive Graphics Software to Analyze Travel Patterns”	M.Eng.	1987
Noehammer, P.	“A Residential Mobility Simulation Model”	MASc	1987
Tai, K.	“Design of an Interactive Computer Graphics Package for Transit Route Ridership forecasting Analysis”	MASc	1987
Sarjeant, P.	“A Continuous Search Model of Residential Mobility Decision Making”	MASc	1986
Long, R.	“Behavioural Models of Freight Mode Share in Canada”	MASc	1984
Ridout, R.	“A Disaggregate Model of Intercity Passenger Modal Choice”	M.Eng.	1982
Sims, D.	“Energy Consumption of Alternative Transport Modes”	MASc	1982

**ERIC JOHN MILLER**

**OTHER GRADUATE STUDENT SUPERVISORY OR EXAMINATION COMMITTEES**

**McMaster University: Ph.D. Supervisory and/or Examination Committees**

P. Kanaroglou (Geography, 1987)

L. Aultman-Hall (Civil Eng., 1994-96)

D. Scott (Geography, 1998-2000)

R. Buliung (Geography, 1999-2004)

H. Maoh (Geography, 2002-2005)

S. Farber (Geography, 2007-2009).

**University of Toronto: PhD Examination Committees (Civil Eng. unless indicated otherwise)**

T. Shin; I. Geva; B. Persaud; L. Lo (Geography); E. Quaye; M. Hassounah; M. Ghaeli; W. Salman; J. Wang (Geography); B. Son; A. Shallaby; D. Lord; J. Bamfo; L. Kattan; C. Jacob; S. Foo; J. Lee; H. Talaat; M. Wahba; B. Al-Shalafah; E-H. Chung; A. Hadayeghi; H. Abd El-Gawad; S. Derrible; R. Marzoughi; H. Abd El-Gawad; Y-J. Byon

**University of Toronto: M.Sc. Examination Committees**

D. Buckeridge (MSc, Epidemiology, 1998)

**Waterloo University: External Examiner**

M. Lee (MA, Planning, 2010)

J. Finkleman (MA, Planning, 2010)

E. Hildebrand (PhD, Civil Eng., 1998)

K. Helali (PhD, Civil Eng., 1994)

**PhD External Examiner, Other Universities**

J. Auld (University of Illinois at Chicago, 2011)

J. Hackney (Civil Eng., ETH Zurich, 2010)

C. Beckx (Institute for Mobility, Hasselt University, Belgium, 2009)

## ERIC JOHN MILLER

### PAPERS IN REFEREED JOURNALS

Lifetime Published 94 Last 5 years: 42  
Accepted, forthcoming: 3  
Submitted: 3

Bataille, C., S. Goldberg, J. Sharp, E.J. Miller & D. Cavens, “The Capacity for Integrated City Land Use, Transport and District Energy Policies (“Integrated Urban Energy Systems”) to Reduce Greenhouse Gas Emissions Intensity”, submitted to *Canadian Public Policy*, 2011.

Hain, M., E.J. Miller and M.J. Roorda, “Labour Force State Transitions Model of the Greater Toronto and Hamilton Area”, submitted to *Environment and Planning B*, 2011.

Chingcuanco, F. and E.J. Miller, “A Microsimulation Model of Urban Energy Use”, forthcoming in *Computers, Environment and Urban Systems*, 2011.

Hatzopoulou, M., E.J. Miller and J.Y. Hao, “An integrated approach for simulating the impacts of household travel on greenhouse gas emissions, urban air quality, and population exposure”, forthcoming *Transportation*, 2011.

Miller, E.J., B. Farooq, F. Chingcuanco and D. Wang, “Historical Validation of an Integrated Transport – Land Use Model System”, *Transportation Research Record, Journal of the Transportation Research Board*, No. 2255, 2011, pp. 91-99.

Lau, J., M. Hatzopoulou, M. Wahba and E.J. Miller, “An Integrated Multi-model Evaluation of Transit Bus Emissions in Toronto”, *Transportation Research Record, Journal of the Transportation Research Board*, No. 2216, 2011, pp. 1-9.

Santos, B.F., A. Antunes and E.J. Miller, “Solving a multi-level road network design model: A comparison of algorithms”, submitted to *Computers and Operations Research*, 2010.

Pritchard, D. and E.J. Miller, “Advances in Population Synthesis: Fitting Many Attributes Per Agent and Fitting to Household and Person Margins Simultaneously”, forthcoming in *Transportation*, 2011.

## ERIC JOHN MILLER

### PAPERS IN REFEREED JOURNALS (continued)

Gao, W., M. Balmer and E.J. Miller, "Comparisons between MATSim and EMME/2 on the Greater Toronto and Hamilton Area Network", *Transportation Research Record, Journal of the Transportation Research Board*, No. 2197, 2010, pp. 118-128.

Hatzopoulou, M. and E.J. Miller, "Linking an Activity-Based Travel Demand Model with Traffic Emission and Dispersion Models: Transport's Contribution to Air Pollution in Toronto", *Transportation Research D*, Vol. 15, No. 6, 2010, pp. 315-325.

Day, N., Habib, K.M.N, Miller, and E.J. "Analysis of Work Trip Timing and Mode Choice in the Greater Toronto Area", *Canadian Journal of Civil Engineering*, Vol. 37, May, 2010, pp 695-705.

Santos, B. F., Antunes, A. P., Miller, E. J. "Interurban Road Network Planning Model with Accessibility and Robustness Objectives", *Transportation Planning and Technology*, Vol. 33, Issue No. 3, 2010, pages 297-313.

Hao, J.Y., M. Hatzopoulou and E.J. Miller, "Integrating an Activity-Based Travel Demand Model with Dynamic Traffic Assignment and Emissions Models: An Implementation in the Greater Toronto Area", *Transportation Research Record, Journal of the Transportation Research Board*, No. 2176, 2010, pp. 1-13.

Wang, J., M. Wahba and E.J. Miller, "A Comparison of an Agent-Based Transit Assignment Procedure (MILATRAS) with Traditional Approaches", *Transportation Research Record, Journal of the Transportation Research Board*, No. 2175, 2010, pp. 47-56.

Farooq, B., E.J. Miller and M. Haider, "Hedonic Analysis of Office Space Rent", *Transportation Research Record, Journal of the Transportation Research Board*, No. 2174, 2010, pp. 118-127.

Miller, E.J., "Articulating the activity-based paradigm: Reflections on the contributions of Ryuichi Kitamura", *Transportation*, Vol. 36, Issue 6, 2010, pp. 651-655.

Elgar, I. and E.J. Miller, "How Office Firms Conduct Their Location Search Process: An Analysis of a Survey from the Greater Toronto Area", *International Regional Science Review*, 33(1), 2010, pp.60-85.

Elgar, I., B. Farooq and E.J. Miller, "Modeling Location Decisions of Office Firms: Introducing Anchor Points and Constructing Choice Sets in the Model System", *Transportation Research Record, Journal of the Transportation Research Board*, No. 2133, 2009, pp. 56-63.

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### **BOOKS AND BOOK CHAPTERS** (Lifetime: 9; Last 5 years: 1)

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Miller, E.J., "Integrated Land-Use/Transport Model Requirements", in *Handbook of Transport Geography and Spatial Systems, Handbooks in Transport Volume 5*, Chapter 10 (D.A. Hensher, K.J. Button, K.E. Haynes and P.R. Stopher, eds.), Elsevier Science: Amsterdam, 2004, pp. 147-166.

Miller, E.J., "Land Use - Transportation Modeling", Chapter 5 in *Transportation Systems Planning Methods and Applications*, (K.G. Goulias, ed.), Boca Raton, FL: CRC Press, 2003, pp. 5-1 - 5-24.

Miller, E.J., "Microsimulation", Chapter 12 in *Transportation Systems Planning Methods and Applications*, (K.G. Goulias, ed.), Boca Raton, FL: CRC Press, 2003, pp. 12-1 - 12-22.

Meyer, M.D. and E.J. Miller, *Urban Transportation Planning: A Decision-Oriented Approach, Second Edition*, New York: McGraw-Hill, 2001.

Miller, E.J., "Transportation and Communications", Chapter 8 in *Canadian Cities in Transition: The Twenty-first Century, 2<sup>nd</sup> Edition*, (T. Bunting and P. Filion, eds.), Toronto: Oxford University Press, 2000, pp. 173-197.

Anderson, W.P., P. Kanaroglou and E.J. Miller, "Urban Transportation and the Environment", Chapter 6 in J. Andrey (ed) *Transportation Planning and Policy Issues: Geographical Perspectives*, Canadian Association of Geographers Public Issues Committee Publication No. 3, Waterloo: Department of Geography, University of Waterloo, 1995, pp. 145-168.

Miller, E.J., "Demand Models", Chapter 6 in *Canadian Transit Handbook*, Second Edition, Toronto: Canadian Urban Transit Association and the Roads and Transportation Association of Canada, 1985, pp. 6-1 to 6-45.

Meyer, M.D. and E.J. Miller, *Urban Transportation Planning: A Decision-Oriented Approach*, New York: McGraw-Hill, 1984.

### **BOOK REVIEWS** (Lifetime: 1)

Review of *Qualitative Choice Analysis: Theory, Econometrics, and an Application to Automobile Demand*, in *Transportation Science*, Vol. 22, No.1, February 1988, pp. 74-75.

## **ERIC JOHN MILLER**

### **NEWSPAPER & OTHER MEDIA ARTICLES**

Miller, E.J., “We’re Talking Mobility, Not Gravy”, *Toronto Star*, September 2, 2011.

Stolarick, K, E.J. Miller & S. Brail, “Toronto Belongs in Spotlight During the Federal Election – But It’s Not”, *Toronto Star*, April 14, 2011.

Miller, E.J., “Focusing on Customers Matters”, guest editorial, *CUTA Forum*, June 2010, pp. 11-12.

Miller, E.J., “The Third Urban Revolution”, *The Mark*, February 8, 2010.

Miller, E.J., “Transit: Putting Words into Action”, *Toronto Star*, October 19, 2004.

Miller, E.J., “Letter to Mayor Miller”, *University of Toronto Bulletin*, November, 2003.

**ERIC JOHN MILLER**

**TECHNICAL PRESENTATIONS** (Lifetime: 390; Last 5 years: 173)  
(Excludes presentations listed under “Papers in Conference Proceedings”)

Forsey, D., A.S. Shalaby and E.J. Miller, “An Evaluation of the Ridership Impacts of the VIVA Bus Transit System”, presented at the 91<sup>st</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2012.

## ERIC JOHN MILLER

### TECHNICAL PRESENTATIONS (continued)

Mohammed, A., A.S. Shalaby and E.J. Miller, "P-TRANE: Modeling Bus Transit Network Evolution in a GIS-Based Framework", presented at the 91<sup>st</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2012.

Miller, E.J., "Toronto Talks Mobility: The Case for Action", Toronto Talks Mobility Symposium, Toronto: November 10, 2011.

Miller, E.J., "Staying the Course: Lessons from Vancouver and Portland", Canadian Urban Institute – Cities Centre Forum, *Staying the Course – What Have Planners Learned About Implementation?*, Toronto, November 8, 2011.

Miller, E.J., "Transit Investment: Necessary, But is It Sufficient?" invited keynote speaker, Pragma Council Conference, *Will Strategic Investments in Transit Achieve Provincial Land Use Targets?* Waterloo, October 26, 2011.

Miller, E.J., "Moving People: Responses to Congestion", University of Toronto Cities Centre *Toronto in Question* discussion series, Toronto, Oct. 25, 2011.

Schultz, S, L. Prime, A. Friedberg and E.J. Miller, "Know Before You Build: Predicting Carbon Profiles of Large-Scale, Mixed-Use Developments", presented at the Greenbuild Conference, Toronto, Oct. 6, 2011.

Mohammed, A., A.S. Shalaby and E.J. Miller, "Understanding Service Changes of Transit Agencies for Modelling the Bus Transit Network Evolution", URISA - GIS in Public Transport Conference, St. Petersburg, FL, September 2011.

Miller, E.J., "Suburban Infrastructure Challenges (and Opportunities), presented at the Sustainable Vaughan Speaker Series, *Infrastructure, Growth and the Future Shape of Suburbs*, Vaughan, Ont., Oct. 4, 2011.

Farooq, B., E.J. Miller, F. Chincuanco and M. Giroux-Cook, "Microsimulation Framework for Urban Proce-Taker Markets", presented at the World Symposium on Transport and Land Use Research, Whistler, BC, July 28-30, 2011.

Miller, E.J., "Agent-Based Microsimulation Models for Urban Policy Analysis", invited presentation to Lea Associates South Asia Pvt. Ltd., Hyderabad, India, July 5, 2011.

Chingcuanco, F. and E.J. Miller, "A Microsimulation Model of Urban Energy Use", presented at the 12<sup>th</sup> International Conference on Computers in Urban Planning and Urban Management, Lake Louise, AB, July 5-8, 2011.

Wang, J. and E.J. Miller, "Choice Set Formation in Shopping Location Choice", presented at the 12<sup>th</sup> International Conference on Computers in Urban Planning and Urban Management, Lake Louise, AB, July 5-8, 2011.

Miller, E.J., "Regional & Inter-Regional Passenger Transportation Networks", presented at the 3rd Annual TRANSLOG 2011 Conference, Hamilton, June 15, 2011.

Miller, E.J. and S. Sheppard, "Visualizign Urban Futures: Geomatics Decision Support for Canadian Urban Regions", presented at the 13<sup>th</sup> GEOIDE Annual Scientific Conference, Toronto, May 17, 2011.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Mohammed, A., A.S. Shalaby and E.J. Miller, “Developing and Testing P-TRANE, a modelling Framework for Bus Transit Network Evolution”, Transportation Research Forum (TRF), Long Beach, CA, April, 2011.

Miller, E.J., “Ontario’s Urban Challenge”, presentation to the Ontario Ministry of Municipal Affairs and Housing Executive Committee, Toronto, March 8, 2011.

Miller, E.J., “An Introduction to Cities Centre”, invited presentation, University of Toronto Faculty of Applied Science & Engineering Faculty Day 2011, Toronto, February 25, 2011.

Miller, E.J., “Agent-Based Modelling for Integrated Transportation - Land Use Policy Analysis”, invited presentation, University of Illinois at Chicago, February 4, 2011.

Miller, E.J., “Agent-Based Modelling for Integrated Transportation - Land Use Policy Analysis”, invited presentation, Northwestern University, February 3, 2011.

Miller, E.J., “Perspectives on Integrated Urban Models”, presentation in Workshop 180, “Meeting Planning Needs with Integrated Urban Models”, at the 90<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 24-27, 2011.

Farooq, B., E.J. Miller and M. Haider, “A Multidimensional Decision Modeling Framework for Built Space Supply”, presented at the 90<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 24-27, 2011.

Mercado, R. and E.J. Miller, “Investigating Changes in Travel Behaviour of the Older Population in the Greater Toronto and Hamilton Area, 1986-2006”, presented at the 90<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 24-27, 2011.

Habib, M.A., E.J. Miller and B. Mans, “Modeling Persons’ Job Mobility and Location Choice Decisions”, presented at the 90<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 24-27, 2011.

Miller, E.J., B. Farooq, F. Chingcuanco and D. Wang, “Historical Validation of an Integrated Transport – Land Use Model System”, presented at the 90<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 24-27, 2011.

Lau, J., M. Hatzoupoulou, M. Wahba and E.J. Miller, “An Integrated multi-model Evaluation of Transit Bus Emissions in Toronto”, presented at the 90<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 24-27, 2011.

Miller, E.J., “Ontario’s Urban Challenge”, presentation to the Planning, Environment, Resource & Land Secretariat Deputy Ministers Committee, Toronto, January 19, 2011.

Miller, E.J., “Transportation for Tomorrow: Designing 21<sup>st</sup> Century Cities That Work”, invited speaker, 6th Annual Engineering Science Education Conference, University of Toronto, Toronto, January 14, 2011.

Miller, E.J., “XTMF & the Hurontario Implementation of GTAModel”, presentation to the Cities of Brampton and Mississauga, Markham, December 16, 2010.

Miller, E.J., “Integrated Urban Modelling for Transportation Policy Analysis”, presented to Transport Canada, Ottawa: December 10, 2010.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Chingcuanco, F. and E.J. Miller, “A Discrete-Choice Model of Residential Heating Equipment Choice”, presented at the 57<sup>th</sup> North American Regional Science Association International Conference, Denver, November 10-13, 2010.

Farooq, B., F. Chingcuanco and E.J. Miller, “Microsimulating Price-Taker Markets”, presented at the 57<sup>th</sup> North American Regional Science Association International Conference, Denver, November 10-13, 2010.

Farooq, B., E.J. Miller and M. Haider, “A Multidimensional Decision Modeling Framework for Built Space Supply”, presented at the 57<sup>th</sup> North American Regional Science Association International Conference, Denver, November 10-13, 2010.

Hain, M., E.J. Miller and M.J. Roorda, “Labour Market State Transitions Model of the Greater Toronto and Hamilton Area for Integration within the Integrated Land Use, Transportation, Environment Modelling System”, presented at the 57<sup>th</sup> North American Regional Science Association International Conference, Denver, November 10-13, 2010.

Giroux-Cook, M., and E.J. Miller, “Development and Implementation of a Microsimulation Model for the Rental Sector”, presented at the 57<sup>th</sup> North American Regional Science Association International Conference, Denver, November 10-13, 2010.

Williams, M., E.J. Miller and B. McInnis, “Coordinated Land Use and Transportation Planning – A Sketch Modeling Approach”, presented at the 57<sup>th</sup> North American Regional Science Association International Conference, Denver, November 10-13, 2010.

Miller, E.J., “Agent-Based Microsimulation Models for Urban Policy Analysis”, invited presentation, TRAM & CIRRELT weekly transportation seminar, McGill University, Montreal, November 4, 2010.

Santos, B.F., A.P. Antunes and E.J. Miller "OPTROAD: A Computer Program for the Long-Term Planning of Multi-Level Interurban Road Networks", PLURIS2010 - 4th Luso Brazilian Conference on Urban, Regional, Integrated, and Sustainable Planning. Faro, Portugal, Oct. 6-8, 2010.

Miller, E.J., “Agent-Based Microsimulation Modelling: Current Capabilities, Future Prospects”, keynote paper, presented at the International EMME Conference, Montreal, Oct. 4, 2010.

Santos, B., A. Antunes and E.J. Miller, “*OptRoad*: A Computer Program for the Long-term Planning of Multi-level Interurban Road Networks”, presented at the XVI Pan-American Conference of Traffic and Transportation Engineering and Logistics, Lisbon, July 15-18, 2010.

Habib, M.A. and E.J. Miller, “Modelling Persons’ Job Mobility and Location Choice decisions for an Integrated Land Use and Transportation Modelling System”, presented at the 12<sup>th</sup> World Conference on Transport Research, Lisbon, July 11-15, 2010.

Mercado, R. and E.J. Miller, “Investigating the Changes in Travel Demand of the Older Population in the Greater Toronto Area, 1986-2006”, presented at the 12<sup>th</sup> World Conference on Transport Research, Lisbon, July 11-15, 2010.

Farooq, B., E.J. Miller and M. Haider, “Modelling the Evolution of Office Space Supply”, presented at the 12<sup>th</sup> World Conference on Transport Research, Lisbon, July 11-15, 2010.

Miller, E.J., B. Farooq, D. Wang and F. Chingcuanco, “Historical Validation of an Integrated Transport – Land Use Model System”, presented at the 12<sup>th</sup> World Conference on Transport Research, Lisbon, July 11-15, 2010.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Miller, E.J., “Connecting People: Intercity Transportation in the Quebec-Windsor Corridor and Beyond”, invited presentation, Asia Pacific Gateway and Corridor Workshop Session “Emerging Continental and Global Transportation Systems in North America”, Toronto, June 17-18, 2010.

Williams, M., E.J. Miller and B. McInnis, “Coordinated Land Use and Transportation Planning – A Sketch [Simplified] Modelling Approach”, presented at the TRANSLOG 2010 Conference, Hamilton, June 15-16, 2010.

Farooq, B., F. Chingcuanco and E.J. Miller, “Modelling Transportation Markets”, presented at the TRANSLOG 2010 Conference, Hamilton, June 15-16, 2010.

Miller, E.J., “Transportation Challenges and Opportunities in the Greater Toronto Area”, presentation to “Breakfast with The Bulletin”, University of Toronto, May 18, 2010.

Miller, E.J., “Integrating Urban Systems Modeling – from Land Use to Emissions”, invited resource paper, Workshop W1: Innovations in Integrated Urban Modeling, 3<sup>rd</sup> Innovations in Travel Modeling Conference, Phoenix, May 10-12, 2010.

Miller, E.J., “Urban Design and Mobility: Concepts, Issues & Analysis”, invited resource paper presented at the Transport and Crowd Management Forum 2010, Jeddah, Saudi Arabia, May 2, 2010.

Miller, E.J., B. Farooq, F. Chingcuanco and D. Wang, “Microsimulating Urban Spatial Dynamics: Historical Validation Tests Using the ILUTE Model System”, presented at the Urban Dynamics Workshop, Marbella, Chile, March 22-25, 2010.

Miller, E.J. and R. Mercado, “Using the Transportation Tomorrow Survey to Analyze Activity/Travel Behaviour in the Greater Toronto Area, 1986-2006”, presented at the 2<sup>nd</sup> Time Use Observatory Workshop, San Felipe, Chile, March 17-19, 2010.

Miller, E.J., invited speaker and panellist, “The Future of Commuting in Toronto: Planning and Infrastructure”, University of Toronto 3<sup>rd</sup> Annual Interdisciplinary Sustainability Forum, January 29, 2010.

Farooq, B., E.J. Miller and M. Haider, “Hedonic Analysis of Office Space Rent”, presented at the 89<sup>th</sup> Annual Meeting of the Transportation Research Board, January 10-14, 2010.

Gao, W., M. Balmer and E.J. Miller, “Comparisons between MATSim and EMME/2 on the Greater Toronto and Hamilton Area Network”, presented at the 89<sup>th</sup> Annual Meeting of the Transportation Research Board, January 10-14, 2010.

Hao, J.Y., M. Hatzopoulou and E.J. Miller, “Integrating an Activity-Based Travel Demand Model with Dynamic Traffic Assignment and Emissions Models: An Implementation in the Greater Toronto Area”, presented at the 89<sup>th</sup> Annual Meeting of the Transportation Research Board, January 10-14, 2010.

Wang, J., M. Wahba and E.J. Miller, “A Comparison of an Agent-Based Transit Assignment Procedure (MILATRAS) with Traditional Approaches”, presented at the 89<sup>th</sup> Annual Meeting of the Transportation Research Board, January 10-14, 2010.

Miller, E.J., “Articulating the Activity-Based Paradigm: Reflections on the Contributions of Ryuichi Kitamura”, presented at the 12<sup>th</sup> International Conference on Travel Behaviour Research, Jaipur, India, December 13-18, 2009.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Hatzopoulou, M., E.J. Miller and J.Y. Hao, “Linking An Activity-Based Travel Demand Model with Emission, Dispersion, and Population Exposure Models for Appraisal of Strategic Transport Plans”, presented at the 12<sup>th</sup> International Conference on Travel Behaviour Research, Jaipur, India, December 13-18, 2009.

Habib, M.A. and E.J. Miller, “Microsimulating Housing Demand”, presented at the 12<sup>th</sup> International Conference on Travel Behaviour Research, Jaipur, India, December 13-18, 2009.

Farooq, B., E.J. Miller and M.A. Habib, “A Microsimulation Housing Market Clearing Model”, presented at the 12<sup>th</sup> International Conference on Travel Behaviour Research, Jaipur, India, December 13-18, 2009.

Habib, M.A., B. Farooq and E.J. Miller, “Development and Implementation of a Microsimulation Model for Residential Mobility and Location Choices within an Integrated Land Use and Transportation Modeling System”, presented at the 56<sup>th</sup> North American Regional Science Association International Conference, San Francisco, November 18-21, 2009.

Hao, J.Y., M. Hatzopoulou and E.J. Miller, “An Integrated Microsimulation Framework for Modelling Traffic Emissions in the Greater Toronto Area”, presented at the 56<sup>th</sup> North American Regional Science Association International Conference, San Francisco, November 18-21, 2009.

Farooq, B., E.J. Miller and M. Haider, “Office Rent in the Greater Toronto Area”, presented at the 56<sup>th</sup> North American Regional Science Association International Conference, San Francisco, November 18-21, 2009.

Farooq, B., E.J. Miller and F. Chingcuanco, “A Dynamic Microsimulation Model for Demographic Updating”, presented at the 56<sup>th</sup> North American Regional Science Association International Conference, San Francisco, November 18-21, 2009.

Miller, E.J., “Activity/Travel Modelling Using TASHA”, presented at ETH Zurich, Zurich, Switzerland, November 13, 2009.

Miller, E.J., “Microsimulating Urban Systems: The Toronto ILUTE Project”, presented at the University of Coimbra, Coimbra, Portugal, November 9, 2009.

Miller, E.J., “Transportation Trends & Employment Impacts”, presented at the Roundtable on Employment Outlook for the GTA+H, Toronto, October 23, 2009.

Miller, E.J., “The Transportation – Land Use Connection”, invited presentation to the Regional Planning Speakers Series, University of Alberta, Edmonton, September 28, 2009.

Miller, E.J., “Modelling Family Networks within an Agent-Based Microsimulation Model”, presented at the Frontiers in Transportation Workshop, Niagara-on-the-Lake, August 27, 2009

Miller, E.J., “Articulating the Activity-Based Paradigm: Reflections on the contributions of Ryuichi Kitamura”, invited presentation at The Joy of the Journey: Celebrating the Life and Work of Ryuichi Kitamura, University of California, Davis, June 29-30, 2009.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Miller, E.J. and M. Hatzopoulou, “Agent-Based Microsimulation Modelling for Transportation Planning and Decision Support”, presented at the TRANSLOG 2009 Conference, Hamilton, June 17-18, 2010.

Miller, E.J., M.A. Habib, B. Farooq and M. Hatzopoulou, “Integrated Urban Modelling for Integrated Urban Planning”, presented at the TRANSLOG 2009 Conference, Hamilton, June 17-18, 2010.

Miller, E.J., “Simulating Cities: The ILUTE Project”, presented at 2<sup>nd</sup> General Conference of the International Microsimulation Association “Microsimulation: Bridging Data and Policy”, Ottawa, June 8-10, 2009.

Miller, E.J., “Remarks”, presented at the Policy Roundtable: Toronto’s Path To Prosperity – Policy Recommendations, Toronto Board of Trade, Toronto, May 1, 2009.

Miller, E.J., “Regional Travel Demand Modelling in the Greater Toronto Area: The University Connection”, presented at the 2009 American Planning Association National Planning Conference Session S607: The Role of Transportation Modeling, Minneapolis, April 28, 2009.

Miller, E.J., “An Overview of the ILUTE Project”, invited presentation, University of Waterloo, Waterloo, March 31, 2009.

Kennedy, C.A., B. Karney, E.J. Miller and M. Hatzopoulou, “Smart Ways to Spend Infrastructure Dollars”, presented at the Ontario Centre for Engineering and Public Policy Policy Engagement Series, Queen’s park, Toronto, March 24, 2009.

Miller, E.J., “The ILUTE Modelling Project”, presented at the AQTR Colloque sur la modélisation des déplacements urbains : pratiques et enjeux, Montreal, February 19, 2009.

Hatzopoulou, M. and E.J. Miller, “Enquête sur les processus d’évaluation des politiques en transport urbain au Canada: Incidences sur la modélisation”, presented at the AQTR Colloque sur la modélisation des déplacements urbains : pratiques et enjeux, Montreal, February 19, 2009.

Miller, E.J., “Agent-Based Modelling of Activity & Travel: The TASHA Model System”, presented to the Placing Creativity Group, Martin Prosperity Institute, University of Toronto, January 21, 2009.

Chair, Sunday Workshop: “Integrated Urban Modeling of Greenhouse Gas Emissions and Policy Analysis”, 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-15, 2009.

Miller, E.J., “Update on Agent-Based Microsimulation Modeling in the Toronto Region”, presented at the 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-15, 2009.

Habib, M.A. and E.J. Miller, “Reference Dependent Residential Location Choice Model within a Relocation Context”, presented at the 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-15, 2009

Elgar, I., B. Farooq and E.J. Miller, “Modeling Location Decisions of Office Firms: Introducing Anchor Points and Constructing Choice Sets into the Model System”, presented at the 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-15, 2009.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Miller, E.J., “Unified Model of Household-Based Decision-Making”, invited keynote address, presented at the First Time Use Observatory Workshop, Santiago, Chile, January 6-8, 2009.

Farooq, B., M.A. Habib, E.J. Miller and M. Haider, “Dynamic Microsimulation of Housing Market for the Greater Toronto Area within the Integrated Land Use Transport and the Environment (ILUTE) Framework”, presented at the 55<sup>th</sup> Annual Meeting of the North American Meeting of the Regional Science International Association, Brooklyn, N.Y., November 19-22, 2008.

Hatzopoulou, M. And E.J. Miller, “A Modelling System for Predicting Daily Exposure of Urban Population to Vehicle-Induced Air Pollution”, presented at the 55<sup>th</sup> Annual Meeting of the North American Meeting of the Regional Science International Association, Brooklyn, N.Y., November 19-22, 2008.

Hatzopoulou, M. And E.J. Miller, “Linking an Activity-Based Travel Demand Model with Traffic Emission and Dispersion Models: Predicting Transport Contribution to Air Pollution in Toronto”, presented at the 55<sup>th</sup> Annual Meeting of the North American Meeting of the Regional Science International Association, Brooklyn, N.Y., November 19-22, 2008.

Habib, M.A. and E.J. Miller, “Addressing location factors on activity choice and time allocation behaviour in the Greater Toronto Area”, presented at the 55<sup>th</sup> Annual Meeting of the North American Meeting of the Regional Science International Association, Brooklyn, N.Y., November 19-22, 2008.

Habib, M.A., B. Farooq and E.J. Miller, “A Microsimulation Model of Residential Location Processes”, presented at the 55<sup>th</sup> Annual Meeting of the North American Meeting of the Regional Science International Association, Brooklyn, N.Y., November 19-22, 2008.

Habib, M.A., E.J. Miller and B. Farooq, “Estimating a reference dependent residential location choice model within a relocation context”, presented at the 55<sup>th</sup> Annual Meeting of the North American Meeting of the Regional Science International Association, Brooklyn, N.Y., November 19-22, 2008.

Chair, “Using Ontario’s New Tools to Create Complete Communities”, Places to Grow Summit, Vaughan, ON, November 5, 2008.

Santos, B., A. Antunes and E.J. Miller, “A Network Planning Model for Accessibility and Environmental Objectives”, Conference on Environment and Transport in Different Contexts, Ghardaia, Algeria, Oct. 27-28, 2008.

Miller, E.J., “Simulating Cities”, presented at the MPI Mini Conference, The City as System: New Approaches to Modeling the Urban Economy, Martin Prosperity Institute, University of Toronto, October 10, 2008

Hatzopoulou, M. and E.J. Miller, “Sustainable Transportation in Canadian Metropolitan Areas: Assessing the Mechanisms for Planning, Funding and Implementation”, presented at the Transportation Association of Canada Annual Conference, Toronto, September 21-24, 2008.

Miller, E.J., “New Modelling Methods for Sustainable Transportation Planning”, presented at the Urban Transportation Showcase Program 2008 Workshop, Toronto, September 19, 2008.

Miller, E.J., “Agent-Based Modelling of Urban Socio-Economic Processes in Space and Time”, presented at the inaugural lecture of the University of Toronto Cities Centre Seminar Series, Toronto, September 18, 2008.

## ERIC JOHN MILLER

### TECHNICAL PRESENTATIONS (continued)

Roorda, M.J. and E.J. Miller, "TASHA: An Activity-Based Travel Model with an Application in Emissions Estimation", presented at the TRB Innovations in Travel Modeling Conference, Portland, OR, June 22-24, 2008.

Miller, E.J., "Recent Progress with the ILUTE Microsimulation Model" presented at the WCTR Special Interest Group 1 Meeting, Portland, OR, June 21, 2008.

Miller, E.J., "Modeling Regional Economics, Land Use, Demographics and Travel: Putting the Pieces Together", invited presentation, 5<sup>th</sup> Oregon Symposium on Integrated Land Use - Transportation Models, Portland, OR, June 19-20, 2008.

Derrible, S., C.A. Kennedy, M.J. Roorda and E.J. Miller, "Light Rail Transit in Toronto: Underground or Above-ground?", presented at the CSCE Annual Conference, Quebec City, June 10-13, 2008.

Miller, E.J., "Urban Land Use Models: An Overview", invited keynote presentation, *Land Use Modeling Workshop*, New York: New York Metropolitan Transportation Council, May 1, 2008.

Miller, E.J., "Accessibility Definitions and Issues, Part II", invited presentation, in "Accessibility -- Measurement, Modelling and Evaluation", Expert Workshop of TUM Institute for Advanced Study, Technical University of Munich, Munich, April 10-11, 2008.

Miller, E.J., "Accessibility: Some Definitions and Issues", invited keynote presentation, mobil.TUM 2008 International Conference on Mobility and Transport, Munich, April 8-9, 2008.

Miller, E.J., "GTA-Based Travel Demand Modelling at the University of Toronto", invited panel presentation, Toronto Section, Institute of Transportation Engineers, Markham, Ont., February 26, 2008.

Miller, E.J., "Agent-Based Modelling of Household and Person Decision-Making", presentation to The Fields Symposia on the Mathematics of Transportation: Four Theses, Fields Institute, Toronto, February 21, 2008.

Miller, E.J., "Public Transit in the Evolving Canadian Context: The Metropolitan Perspective", invited presentation, National Transit Forum, Ottawa, February 13, 2008.

Miller, E.J., invited panel discussant, Moving Activity-Based Approaches to Practice Task Force, 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 14-17, 2008.

Chair, *Integrated Urban Models in Practice: Decision Support for Sustainable Urban Growth Workshop*, 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 13, 2008.

Carrasco, J.A., E.J. Miller and B. Wellman, "How Far and with Whom Do People Socialize? Empirical Evidence About the Distance Between Social Network Members", presented at the 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 14-17, 2008.

Elgar, I. and E.J. Miller, "Office Decisions to Change Location: A Stress Triggered Approach", presented at the 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 14-17, 2008.

Habib, M.A. and E.J. Miller, "Influence of Transportation Access and Market Dynamics on Property Values: Multilevel Spatio-Temporal Models of Housing Price", presented at the 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 14-17, 2008.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Habib, K.M.N., J.A. Carrasco and E.J. Miller, "The Social Context of Activity-scheduling: A Discrete-continuous Model of the Relationship Between "With Whom" and Episode Start Time and Duration", presented at the 87<sup>th</sup> Annual Mtg. of the Transportation Research Board, Washington, D.C., Jan. 14-17, 2008.

Habib, K.M.N., E.J. Miller and K.W. Axhausen, "Weekly Rhythm in Joint Time Expenditure to all At-Home and Out-of-Home Activities: Application of Kuhn-Tucker Demand System Model using a Multi-Week Travel Diary Data", presented at the 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 14-17, 2008.

Santos, B., A. Antunes and E.J. Miller, "Integrating Equity Objectives in A Road Network Planning Model", presented at the 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 14-17, 2008.

Miller, E.J., "Travel Behaviour in the Greater Toronto Area: Trends and Prospects", presented to the Greater Toronto Transportation Conference, Toronto, November 30, 2007.

Carrasco, J.A., B. Hogan, B. Wellman and E.J. Miller, "Agency in Social Activity Interactions: The Role of Social Networks in Time and Space", presented at ICT: Mobilizing persons, places and spaces, 2<sup>nd</sup> International Specialist Meeting on ICT, Everyday Life and Urban Change, Bergen, the Netherlands November 9-12, 2007.

Habib, M.A. and E.J. Miller, "Investigating Spatial Dwelling Search Duration Applying Shared Frailty Models and Modeling Frequency of Vacancy Visit Using Ordered Probit Models", presented at the 54<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Savannah, November 7-10, 2007.

Habib, M.A. and E.J. Miller, "Modeling Time-on-the-Market of Residential Properties and Influence of Duration on the Property Selling Price", presented at the 54<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Savannah, November 7-10, 2007.

Habib, M.A. and E.J. Miller, "Estimating Multilevel Housing Price Model To Account For Spatial and Temporal Heterogeneity", presented at the 54<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Savannah, November 7-10, 2007.

Elgar, I., B. Farooq and E.J. Miller, "Modelling location Decisions of New and Relocating Office Firms: Introducing Anchor Points and Constructing Choice-Sets into the Model System", presented at the 54<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Savannah, November 7-10, 2007.

Elgar, I., B. Farooq and E.J. Miller, "Simulations of location Decisions of New and Relocating Office Firms: To What Extent Location Models Can Mimic the Actual Choice", presented at the 54<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Savannah, November 7-10, 2007.

Habib, K.M.N. and E.J. Miller, "Activity Generation Versus Scheduling: Are They Different in Terms of Time Allocation?", presented at the 54<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Savannah, November 7-10, 2007.

Habib, K.M.N., E.J. Miller and I. Elgar, "Household-Based Labour Force Participation Module for Integrated Land Use Transportation and Environment (ILUTE) Microsimulation Model", presented at the 54<sup>th</sup> Annual North American Meeting of the Regional Science Association International, Savannah, November 7-10, 2007.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Carrasco, J.A., K.M.N. Habib and E.J. Miller, “La Dimensión Social en la Agenda de Actividades y Viajes de los Individuos: Un Modelo de Frecuencia y Duración de Episodios Sociales”, presented at the XIII Congreso Chileno de Ingeniería de Transporte, Catholic University, Santiago, Chile, Oct. 22-26, 2007.

Carrasco, J.A., K.M.N. Habib and E.J. Miller, “‘Elicited’ Versus ‘Revealed’ Personal Networks: How Much Social Activity-Travel Can We Learn from Each?”, presented at the Frontiers in Transportation Social Interactions Conference, Amsterdam, Oct. 14-15, 2007.

Miller, E.J., “Modelling Multi-Modal Transit: Some Issues and Recent Findings”, presented at the 21<sup>st</sup> International EMME Users’ Conference, Toronto, October 10-11, 2007.

Miller, E.J., “Integrated Urban Modelling for Transportation Policy Analysis”, presentation to the Ministry of Transport, Infrastructure and Communities, Ottawa, October 3, 2007.

Hatzopoulou, M. and E.J. Miller, “Development of 24-Hour Profiles for Exhaust and Evaporative Vehicle Emissions in the GTAM”, presented at the Annual Meeting of the Canadian Regional Science Association, Mississauga, Sept. 28-29, 2007.

Habib, K.M.N., I. Elgar and E.J. Miller, “Modeling Labour Force Participation Decisions for an Integrated Land Use Transportation and Environment (ILUTE) Model”, presented at the Annual Meeting of the Canadian Regional Science Association, Mississauga, Sept. 28-29, 2007.

Pritchard, D. and E.J. Miller, “Connection Between Iterative Proportional Fitting and Log-Linear Models”, presented at the Annual Meeting of the Canadian Regional Science Association, Mississauga, Sept. 28-29, 2007.

Santos, B., A. Antunes and E.J. Miller, “Robustness in Accessibility-maximization Interurban Road Network Planning”, presented at the Third International Symposium on Transportation Network Reliability, The Hague, The Netherlands, July 19-20, 2007.

Roorda, M.J., S. Saneinejad and E.J. Miller, “Analysis of Routine Weekly Activity/Travel Patterns”, presented at the World Conference on Transport Research, Berkeley, June, 2007.

Santos, B., A. Antunes and E.J. Miller, “Long-Term Interurban Road Network Planning: A Multi-objective Approach”, presented at the World Conference on Transport Research, Berkeley, June, 2007.

Hatzopoulou, M., B. Santos and E.J. Miller, “Bridging the Gap Between Modeling and Decision-making: A Framework for Appraisal of Sustainable Transport Policies in the Greater Toronto Area”, presented at the World Conference on Transport Research, Berkeley, June, 2007.

Hatzopoulou, M. and E.J. Miller “Appraisal of Transport Policy and Strategic Plans in Canadian Urban Areas: A survey of Planners and Policy-Makers in Government Agencies across Canada”, presented at the World Conference on Transport Research, Berkeley, June, 2007.

Habib, K.M.N., J.A. Carrasco and E.J. Miller, “The Social Dimension of Individual’s Activity Scheduling: How “with whom” Influences Activity Participation”, presented at the World Conference on Transport Research, Berkeley, June, 2007.

Mohammed, A., A.S. Shalaby and E.J. Miller, “Using Artificial Intelligence to Model Surface Transit Network Evolution”, presented at the World Conference on Transport Research, Berkeley, June, 2007.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Elgar, I. and E.J. Miller, "Office Location Duration and Area: Descriptive Statistics and Modelling", presented at the World Conference on Transport Research, Berkeley, June, 2007.

Habib, M.A. and E.J. Miller, "Estimating and Comparing Fixed Effects and Random Effects Binary Choice Panel Data Models for Residential Mobility", presented at the World Conference on Transport Research, Berkeley, June, 2007.

Hatzopoulou, M. and E.J. Miller, "Deriving Performance Measures from Integrated Land-Use and Transportation Models to Assess the Sustainability of Transport Policies", presented at International Society for Industrial Ecology Conference, Toronto, June, 2007.

Habib, M.A. and E.J. Miller, "Modelling Residential Mobility and Spatial Search Behaviour: Evidence from Greater Toronto Area", presented at TRISTAN VI, Phuket Island, Thailand, June 10-15, 2007.

Miller, E.J., "Urban Simulation Modelling for Environmental Analysis", presented to the City of Toronto, Toronto, May 18, 2007.

Miller, E.J., "Transportation Modelling: Making the Growth Plan Work", invited presentation to the Pragma Council Spring 2007 Conference, Waterloo, May 10, 2007.

Roorda, M.J., K.M.N.Habib and E.J. Miller, "Can we simulate future activity/travel behaviour? Validation of TASHA, an activity-based travel demand microsimulation model", presented at the Canadian Institute of Transportation Engineers Annual Conference, Toronto, May, 2007.

Miller, E.J., "Sustainable Urban Systems: Challenges and Opportunities", invited presentation, Moving Canada Towards Sustainability Symposium, Toronto: University of Toronto, Feb. 21, 2007.

Hatzopoulou, M., E.J. Miller and B. Santos, "Integrating Vehicle Emission Modeling with Activity-based Travel Demand Modeling: A Case Study of the Greater Toronto Area (GTA)", presented at the 86<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 22-25, 2007.

Miller, E.J., "Modelling and Data Issues for Integrated Urban Modelling", presented at the Canada-UK Workshop on Improving Urban Energy Efficiency, Toronto, November 20-21, 2006.

Habib., M.A. and E.J. Miller, "Stressor-based Binary Choice Panel Data Model Estimation of Residential Mobility Decisions for Integrated Land Use and Transportation Modeling", presented at the 53<sup>rd</sup> Annual North American Meeting of the Regional Science Association International, Toronto, November, 2006.

Carrasco, J.A., E.J. Miller and B. Wellman, "Where people socialise and with whom: Studying the Distance between Social Network Members", 53<sup>rd</sup> Annual N.Am. Mtg., RSAI, Toronto, Nov., 2006.

Habib, K.M.N. and E.J. Miller, "Gaps in Theory and Implementation in Activity-Based Travel Demand Modelling", presented at the 53<sup>rd</sup> Ann. N. Am. Mtg of the RSAI, Toronto, Nov, 2006.

Miller, E.J. and N. Kruchten, "An Extensible Computational Framework for Urban Travel Demand Modelling", presented at the 53<sup>rd</sup> Annual North American Meeting of the Regional Science Association International, Toronto, November, 2006.

Hatzopoulou, M. and E.J. Miller, "Bridging the Gap between Modeling and Decision-Making: A Framework for Assessing the Sustainability of Land-Use and Transport Policies in the GTA", presented at the 53<sup>rd</sup> Annual North American Meeting of the Regional Science Association International, Toronto, Nov., 2006.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Carrasco, J.A., B. Hogan, B. Wellman and E.J. Miller, "Agency in Social Activities and ICT Interactions: the Role of Social Networks in Time and Space", presented at the 2<sup>nd</sup> International Specialist Meeting on ICT, Everyday Life and Urban Change, Bergen, The Netherlands, Nov. 9-12, 2006.

Miller, E.J. and R. Wolff, "Generalized Time Transit Assignment in a Multi-Modal/Service Transit Network", presented at the 20<sup>th</sup> International EMME Users' Conference, Montreal, October 18-20, 2006.

Miller, E.J., "Integrated Urban Modelling: Some Theoretical Considerations", invited paper, presented at the 7<sup>th</sup> AMUS Conference, Aachen, Germany, September 7-8, 2006.

Carrasco, J.A., E.J. Miller and B. Wellman, "The Interaction Between Spatial and Social Networks: The Case of Travel for Social Activity", presented at the 11th International Association for Travel Behaviour Research Conference, Kyoto, August 16-20, 2006.

Habib, K.M.N., E.J. Miller and I. Elgar, "Stress Triggered Household Decision To Change Dwelling: A Simultaneous Dynamic Approach", presented at the 11th International Association for Travel Behaviour Research Conference, Kyoto, August 16-20, 2006.

Habib, K.M.N. and E.J. Miller, "Modelling Activity Generation: A Utility Based Model for Activity-Travel Demand", presented at the 11th Int. Assoc. for Travel Behaviour Research Conf., Kyoto, Aug. 16-20, 2006.

Roorda, M.J., J.A. Carrasco and E.J. Miller, "A Joint Model of Car Ownership and Activity Scheduling", presented at the 11th International Association for Travel Behaviour Research Conference, Kyoto, August 16-20, 2006.

Miller, E.J., "Microsimulation Modelling for Integrated Urban Policy Analysis", presentation to the Sustainable Mobility and Accessibility Research Transformation program, University of Michigan, Ann Arbor, MI, June 16, 2006

Miller, E.J., "Agent-Based Modelling of Activity and Travel", Univ. of Michigan, Ann Arbor., June 16, 2006

Santos, B., A. Antunes and E.J. Miller, "OptRoad: A Computer Program for Interurban Road Network Planning", presented at the Joint International Conference on Computing and Decision-Making in Civil and Building Engineering, Montreal, June 14-16, 2006.

Miller, E.J., presentations to the GTA Modelling Project Advisory Panel, Toronto, June 8-9, 2006.

Miller, E.J., "Moving Forward: Transportation Research at the University of Toronto", presentation to the Ontario Ministry of Transportation, Toronto: May 26, 2006.

Hatzopoulou, M., and E.J. Miller, "Indicators of Sustainable Transport for Integrated Policy Appraisal: Linking Sustainable Transport Plans with Decision-making in the Greater Toronto Area", presented at the New Scholars Conference on Sustainable Transportation, Univ. of Indiana, May 15-16, 2006.

Miller, E.J., "Simulating Cities", presentation to the University of Utrecht Science and Innovation Management Program, Toronto, April 19, 2006.

Miller, E.J., "Simulating Cities", presentation to the Ontario Ministry of Public Infrastructure Renewal, Toronto, April 10, 2006.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Elgar, I and E.J. Miller, “A Conceptual Model of Small Office Firm Location”, pre-print CD, presented at the 85<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 23-26, 2006.

Roorda, M.J., E.J. Miller and N. Kruchten, “Incorporating Within-Household Interactions into a Mode Choice Model Using a Genetic Algorithm for Parameter Estimation”, presented at the 85<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 23-26, 2006.

Habib, K.M.N. and E.J. Miller, “Modelling Individuals’ Frequency and Time Allocation Behaviour for Shopping Activities Considering Household Level Random Effects”, presented at the 85<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 23-26, 2006.

Habib, K.M.N. and E.J. Miller, “Modelling Skeletal Components of Workers’ Daily Activity Schedules”, presented at the 85<sup>th</sup> Ann. Mtg. of the Transportation Res. Board, Washington, D.C., Jan. 23-26, 2006.

Carrasco, J.A. and E.J. Miller, “Exploring The Propensity To Perform Social Activities: A Social Networks Approach”, presented at the 85<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 23-26, 2006.

Miller, E.J., “Microsimulating Urban Systems”, Rotman School of Management, University of Toronto seminar series, Toronto, November 25, 2005.

Habib, M.A. and E.J. Miller, “Dynamic Residential Mobility Decision Choice Model in the ILUTE Framework”, presented at the 52<sup>nd</sup> North American Meeting of the Regional Science Association International, Las Vegas, November 10-12, 2005.

Elgar, I, and E.J. Miller, “A Conceptual Model of Small Office Firm Location Decision-Making”, presented at the 52<sup>nd</sup> North American Meeting of the Regional Science Association International, Las Vegas, November 10-12, 2005.

Elgar, I, and E.J. Miller, “Office Location Decisions: An Internet-Based Survey”, presented at the 52<sup>nd</sup> North American Meeting of the RSAI, Las Vegas, November 10-12, 2005.

Miller, E.J., invited panelist, Mayor’s Downtown Summit, Burlington, Ont., October 12, 2005.

Miller, E.J., “Microsimulation Modelling Research at the University of Toronto”, presented at the India Institute of Technology Bombay, Mumbai, India: August 19, 2005.

Miller, E.J., “Transportation Planning & Modelling: A Canadian Perspective”, presentation to the Mumbai Metropolitan Region Development Authority, Mumbai, India, August 18, 2005.

Carrasco, J.A., B. Hogan, B. Wellman and E.J. Miller, “Collecting Social Network Data to Study Social Activity-Travel Behaviour: An Egocentered Approach”, presented at the Frontiers in Transportation: Social and Spatial Interactions Workshop, Amsterdam, July 2-5, 2005.

Carrasco, J.A. and E.J. Miller, “Socialising with People and Not Places: Modelling Social Activities Explicitly Incorporating Social Networks”, presented at the CUPUM Conference, London, June 29 - July 1, 2005.

Waddell, P., H. Sevcikova, D. Socha, E.J. Miller, and K. Nagel, “Opus: An International Collaboration to Develop an Open Platform for Urban Simulation”, presented at the CUPUM Conference, London, June 29 - July 1, 2005.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Roorda, M.J., E.J. Miller and N. Kruchten, “Using a Genetic Algorithm to Estimate Household Model of Ridesharing, Vehicle Allocation and Tour-based Mode Choice”, presented at the CUPUM Conference, London, June 29 - July 1, 2005.

Miller E.J., “Simulating Cities: An Overview of the ILUTE Approach”, presented at the PROCESSUS Second International Colloquium on the Behavioural Foundations of Integrated Land-use and Transportation Models: Frameworks, Models and Applications, Toronto: June 13-15, 2005.

Carrasco, J.A., B. Hogan, B. Wellman and E.J. Miller, “Collecting Social Network Data to Study Social Activity-Travel Behaviour: An Egocentred Approach”, presented at the PROCESSUS Second International Colloquium on the Behavioural Foundations of Integrated Land-use and Transportation Models: Frameworks, Models and Applications, Toronto: June 13-15, 2005.

Roorda, M.J. and E.J. Miller, “A Tour-Based Mode Choice Model Incorporating Inter-personal Interactions within the Household”, presented at the PROCESSUS Second International Colloquium on the Behavioural Foundations of Integrated Land-use and Transportation Models: Frameworks, Models and Applications, Toronto: June 13-15, 2005.

Roorda, M.J., M. Lee-Gosselin, S.T. Doherty, E.J. Miller, and P. Rondier “Travel/Activity Panel Surveys in the Toronto and Quebec City Regions: Comparison of Methods and Preliminary Results”, presented at the PROCESSUS Second International Colloquium on the Behavioural Foundations of Integrated Land-use and Transportation Models: Frameworks, Models and Applications, Toronto: June 13-15, 2005.

Habib, M.K.N. and E.J. Miller, “Modelling Duration of Work/School Episodes Using Activity Diary Data for the Specification of an Activity-Travel Scheduler”, presented at the PROCESSUS Second International Colloquium on the Behavioural Foundations of Integrated Land-use and Transportation Models: Frameworks, Models and Applications, Toronto: June 13-15, 2005.

Habib, M.K.N. and E.J. Miller, “A Conceptual Model for Integrated Activity-Based Transportation Planning and Policy Analysis”, (poster) presented at the PROCESSUS Second International Colloquium on the Behavioural Foundations of Integrated Land-use and Transportation Models: Frameworks, Models and Applications, Toronto: June 13-15, 2005.

Carrasco, J.A. and E.J. Miller, “Not Only How Often and Where You Go, But Who You See: A Social Network Framework for Social Activity-Travel Behaviour”, (poster) presented at the PROCESSUS Second International Colloquium on the Behavioural Foundations of Integrated Land-use and Transportation Models: Frameworks, Models and Applications, Toronto: June 13-15, 2005.

Elgar, I, and E.J. Miller, “Location Decisions of Small Office Firms, A Conceptual Framework”, (poster) presented at the PROCESSUS Second International Colloquium on the Behavioural Foundations of Integrated Land-use and Transportation Models: Frameworks, Models and Applications, Toronto: June 13-15, 2005.

Mohammed, A., A. Shalaby and E.J. Miller, “Understanding the Growth of Bus Networks – Modelling the Evolution of the Mississauga, Ontario Bus Network”, (poster) presented at the PROCESSUS Second International Colloquium on the Behavioural Foundations of Integrated Land-use and Transportation Models: Frameworks, Models and Applications, Toronto: June 13-15, 2005.

Kennedy, C.A., E.J. Miller, B.W. Karney, K.D. Pressnail, B.Y. McCabe, H.L. MacLean, W.H. Vanderburg and B.J. Adams, “Urban Morphology and Infrastructure: Implications for a Sustainable Future”, presented at the 33<sup>rd</sup> CSCE Annual Conference, Toronto: June 2-4, 2005.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Mohammed, A., A.S. Shalaby and E.J. Miller, "Prediction Modelling of Transit Network Evolution: Case Study of the Mississauga, Ontario Bus Network", presented at the CSCE 6<sup>th</sup> Transportation Specialty Conference, Toronto: June 2-4, 2005.

Miller, E.J., B. Abdulhai and A.S. Shalaby, "Towards Sustainable Urban Transportation", presented at the 33<sup>rd</sup> CSCE Annual Conference, Toronto: June 2-4, 2005.

Tsang, F.W.K., C.A. Kennedy, M. Haider, E. J. Miller, "Impact of Locational Socio-Demographic Characteristics on Business Location Decision and Sales Performance: A Case Study of Car Dealerships in Toronto", presented at the CSCE 6<sup>th</sup> Transportation Specialty Conference, Toronto: June 2-4, 2005.

Miller, E.J., "Simulating Cities", CSCE 6<sup>th</sup> Transportation Specialty Conf., Toronto: June 2-4, 2005.

Weldon, M., M.J. Roorda and E.J. Miller, "A Model of Transit Pass Ownership", presented at the CSCE 6<sup>th</sup> Transportation Specialty Conference, Toronto: June 2-4, 2005.

Roorda, M.J. and E.J. Miller, "Assessing Transportation Policy Using an Activity-based Microsimulation Model of Travel Demand", CSCE 6<sup>th</sup> Transportation Specialty Conference, Toronto: June 2-4, 2005.

Miller, E.J., "Urban Simulation Modelling: A Framework for Urban Transportation, Housing and Land Use Policy Analysis", presentation to the Ontario Ministry of Municipal Affairs & Housing, Toronto, June 9, 2005.

Miller, E.J., "Transportation and Places to Grow", presented at the Canadian Urban Institute Urban Leadership Series workshop Places to Grow: Here, There – Not Just Anywhere, Toronto, June 1, 2005.

Salvini, P. and E.J. Miller, "Microsimulation Modelling for the Development of Sustainable Urban Systems: ILUTE", presentation at the PROCESSUS Technical Workshop, Urban System and Travel Behaviour Research at the University of Toronto: Progress on New Models and Data for Travel Demand Forecasting, Toronto: University of Toronto, May 3, 2005.

Miller, E.J., "Integrated Urban Modelling Research at the University of Toronto: An Introduction", presentation at the PROCESSUS Technical Workshop, Urban System and Travel Behaviour Research at the University of Toronto: Progress on New Models and Data for Travel Demand Forecasting, Toronto: University of Toronto, May 3, 2005.

Miller, E.J., "Integrated Urban Systems Modelling at the University of Toronto", presented to Siemens Canada, Toronto: April 27, 2005.

Miller, E.J., "Travel Demand Modelling in the Greater Toronto Area", presented to Transport Canada, Toronto & Ottawa (video-conference): April 21, 2005.

Miller, E.J., "Simulating Cities", presented to The GTA Forum, Toronto, March 16, 2005.

Miller, E.J., "(Un)sustainable Transportation in the Greater Toronto Area", presented in the Environmental Seminar Series, Inst. for Environmental Studies, University of Toronto, February 9, 2005.

Miller, E.J., "Overview of ILUTE Modelling Concepts", MCRI International Workshop on Integrated Urban Modelling, Toronto, January 14, 2005.

Sousa, P. and E.J. Miller, "A Performance-Driven Transit Funding Model", presented at the 84<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 10-13, 2005.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Miller, E.J., “Integrated Land Use Modeling: Current State and Future Prospects”, presented at the 84<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 10-13, 2005.

Chair, *Integrated Transportation -- Land Use Modeling: The State of Operational Practice Workshop*, 84<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 9, 2005.

Miller, E.J., “Simulating Cities: The ILUTE Project”, presented at the Ontario Society of Professional Engineers Engineering the Healthy City Conference, Toronto, November 1, 2004.

Miller, E.J., “Microsimulating Urban Systems”, presented at School of Geography and Geology and Centre for Spatial Analysis Seminar Series, McMaster University, October 6, 2004.

Invited speaker and panelist, University of Toronto President’s Circle Seminar Series, “Dark Age Ahead”, Toronto, September 29, 2004.

Haroun, A. and E.J. Miller, “Retrospective Surveys in Support of Dynamic Model-Building”, presented at the 7<sup>th</sup> International Conference on Travel Survey Methods, Costa Rica, August, 2004.

Roorda, M.J. and E.J. Miller, “Toronto Activity Panel Survey -- Demonstrating the Benefits of a Multiple Instrument Survey Panel, presented at the 7<sup>th</sup> International Conference on Travel Survey Methods”, Costa Rica, August, 2004.

Miller, E.J. “Accessibility, Mobility and Urban Form”, presented at The Natural City Conference, University of Toronto, Toronto, June 23-25, 2004.

Miller, E.J., “TASHA: A Microsimulation Model of Household Activity/Travel Scheduling”, invited presentation, Technical University of Berlin, Berlin, Germany, June 3, 2004.

Miller, E.J., “Integrated Land Use and Transportation Modelling in Canada”, invited presentation, UFZ Centre for Environmental Research Leipzig, Leipzig, Germany, June 2, 2004.

Litwin, M.S. and Miller, E.J., “Agenda Formation: evolution of Activity Sequencing within an Event-Driven Time-Series Based Framework”, presented at the EIRASS Conference on Progress in Activity-Based Analysis, Maastricht, the Netherlands May 28-31, 2004.

Miller, E.J., "The State of the Art of Microsimulation in Canada - Research and Applications", invited presentation, University of Karlsruhe, Karlsruhe, Germany, May 27, 2004.

Salvini, P.A. and E.J. Miller, “Microsimulation Modeling for the Development of Sustainable Urban Systems: the ILUTE Model Operational Prototype”, presented at the STELLA Synthesis Meeting, Focus Group 2: ICT, Innovation and the Transit System, Budapest, Hungary, April 22-23, 2004.

Nagel, K., P.A. Salvini and E.J. Miller, “Coupling of Agent-Based Transportation to Agent-Based Land Use Models”, presented at the STELLA Synthesis Meeting, Focus Group 2: ICT, Innovation and the Transit System, Budapest, Hungary, April 22-23, 2004.

Doherty, S.T., E. Nemeth, M.J. Roorda and E.J. Miller, “Design and Assessment of the Toronto Area Computerized Household Activity Scheduling Survey”, presented at the 83<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2004.

Haider, M. and E.J. Miller, “Modelling Location Choices of Housing Builders in the Greater Toronto Area”, presented at the 83<sup>rd</sup> Annual Mtg. of the Trans. Research Board, Washington, D.C., Jan., 2004.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Miller, E.J., “The Trouble with Intercity Travel Demand Models”, presented at the 83<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2004.

Miller, E.J., M.J. Roorda, M. Haider and A. Mohammadian, “An Empirical Analysis of Travel and Housing Costs in the Greater Toronto Area”, 83<sup>rd</sup> Annual Mtg of the TRB, Washington, D.C., Jan, 2004.

Miller, E.J., “Simulating Cities”, 10<sup>th</sup> Annual CSCE Ontario Student Conference, Toronto: Jan. 9, 2004.

Salvini, P.A. and E.J. Miller, “Computational Issues in the Development of the ILUTE Microsimulation Modelling System”, Integrative Modelling of Sustainable Land Use, A Cross-Disciplinary Workshop, Horgen, Switzerland, Nov 24-25, 2003.

Miller, E.J., M.J. Roorda and J.A. Carrasco, “A Tour-Based Model of Travel Mode Choice”, presented at the 10<sup>th</sup> International Conference on Travel Behaviour Research, Lucerne, Switzerland, August, 2003.

Salvini, P.A. and E.J. Miller, “ILUTE: An Operational Prototype of a Comprehensive Microsimulation Model of Urban Systems”, presented at the 10<sup>th</sup> International Conference on Travel Behaviour Research, Lucerne, Switzerland, August, 2003.

Miller, E.J., Chair, Workshop 2.2, “Large Scale Models and Microsimulation”, 10<sup>th</sup> International Conference on Travel Behaviour Research, Lucerne, Switzerland, August, 2003.

Miller, E.J. and C.A. Kennedy, “Assessing the Effects of Congestion on the GTA Economy”, presentation to the Infrastructure Committee, Toronto Board of Trade, Toronto, June 18, 2003.

Miller, E.J., “Recent Trends in GTA Travel Demand”, presented at the GTA Transportation Summit, Toronto: March 25, 2003.

Chair, GTA Transportation Summit, Toronto: March 25-26, 2003.

Miller, E.J., “Towards an Unifying Framework”, MCRI Workshop on Unifying Frameworks”, Toronto: University of Toronto, January 17, 2003.

Miller, E.J. and M.J. Roorda, “A Prototype Model of Household Activity/Travel Scheduling”, presented at the 82<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2003.

Mohammadian, A. and E.J. Miller, “Dynamic Modeling of Household Automobile Transactions”, presented at the 82<sup>nd</sup> Annual Meeting of the TRB, Washington, D.C., January, 2003.

Mohammadian, A. and E.J. Miller, “Empirical Investigation of Household Vehicle Type Choice Decisions”, presented at the 82<sup>nd</sup> Annual Meeting of the TRB, Washington, D.C., January, 2003.

Miller, E.J., Invited Panelist, “Moving Activity-Based Approaches to Practice: Developments and Challenges”, Session 262, 82<sup>nd</sup> Annual Meeting of the TRB, Washington, D.C., January, 2003.

Miller, E.J., Invited Panelist, “Travel Demand Forecasting in Developing Countries”, Session 262, 82<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2003.

Miller, E.J., “GTA Travel Trends and Their Relationship with Urban Sprawl”, invited presentation, Pragma Council Conference, Urban Sprawl (Part 2) -- The Transportation Crisis in the Decade Ahead”, Waterloo, November 28-29, 2002.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Miller, E.J., J.D. Hunt, J.E. Abraham and P.A. Salvini, "Microsimulation Modeling Research in Canada", presented at the ASCE Applications of Advanced Technology in Transportation Conference, Boston, August 3-5, 2002.

Mohammadian, A. and E.J. Miller, "Understanding and Modeling Dynamics of Household Automobile Ownership Decisions: A Canadian Experience", presented at the ASCE Applications of Advanced Technology in Transportation Conference, Boston, August 3-5, 2002.

Mohammadian, A. and E.J. Miller, "Dynamic Analysis of Automobile Ownership Decisions within an Urban Transportation Microsimulation Modeling System", presented at the Annual Meeting of the Institute of Transportation Engineers, Philadelphia: August 4-7, 2002.

Miller, E.J. and J.D. Hunt "Integrated Land Use, Transportation, Environment (ILUTE) Modeling Research in Canada: An Introduction", presented at the Third Oregon Symposium on Integrated Land Use and Transport Models, Portland, OR: July 23-25, 2002.

Miller, E.J. "A Unified Model of Household Decision-Making", presented at the Third Oregon Symposium on Integrated Land Use and Transport Models, Portland, OR, July 23-25, 2002.

Miller, E.J. and J.D. Hunt "ILUTE Modeling Research in Canada: Conclusions to Date", presented at the Third Oregon Symposium on Integrated Land Use and Transport Models, Portland, OR, July 23-25, 2002.

Grinspun, Y. and E.J. Miller, "Analysis of Land Use Impacts of the Yonge and University Subway Lines in Toronto", presented at the 30<sup>th</sup> Annual Meeting of the Canadian Society of Civil Engineers, Montreal, June 5-8, 2002.

Miller, E.J., "A Microsimulation Model of Urban Systems", presented at the 30<sup>th</sup> Annual Meeting of the Canadian Society of Civil Engineers, Montreal, June 5-8, 2002.

Litwin, M. and E.J. Miller, "Investigation of Household Activity Behaviour - Descriptive Analysis", presented at the Annual Meeting of the Canadian Reg. Science Assoc., Toronto, May 31-June 1, 2002.

Mohammadian, A. and E.J. Miller, "Towards a Dynamic Automobile Transaction Modelling System", presented at the Annual Meeting of the Canadian Reg. Science Assoc., Toronto, May 31-June 1, 2002.

Miller, E.J., "The Gardiner Expressway: Issues and Options", presented to the Toronto Board of Trade, Toronto: April 26, 2002.

Miller, E.J., "Emerging Urban Travel Demand Modelling Needs and Methods", presented at the GEOTec Event, Toronto, April 11, 2002.

Miller, E.J., "An Activity-Based Model of Household Weekday Travel", presented at the Center for Urban Transportation Research, University of South Florida, Tampa, April 4, 2002.

Miller, E.J., M.J. Roorda, L. Eberhard and M. Litwin, "A Microsimulation Model of Daily Household Activity and Travel", presented at the "Understanding and Modeling Travel Behavior" session of the 98<sup>th</sup> Annual Meeting of the Association of American Geographers, Los Angeles, March 19-23, 2002.

Shalaby, A.S. and E.J. Miller, "Long Term Travel Trends in the Greater Toronto Area", presented at the 98<sup>th</sup> Annual Meeting of the Association of American Geographers, Los Angeles, March 19-23, 2002.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Miller, E.J., M.J. Roorda, L. Eberhard, and J. Guan, "Activity Modelling Using Household Travel Survey Data", MCRI Workshop, Toronto, University of Toronto, January 18, 2002.

Mohammadian, A. and E.J. Miller, "A Comparison of the Performance of Nested Logit Models and Artificial Neural Networks for Predicting Household Automobile Choices", presented at the 81<sup>st</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2002.

Miller, E.J. and Y. Grinspun, "Land Use Impacts of Subway Lines in Toronto", presented at the 81<sup>st</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2002.

Miller, E.J., "Travel Trends in the Greater Toronto Area", presented at the CMHC Housing Outlook Conference 2001, Toronto, November 29, 2001.

Miller, E.J., "Spatial Interaction and Location Choice Modelling", presented at the Workshop on Spatial Statistical Analysis, University of Toronto, Toronto, August, 2001.

Haider, M., A. Haroun and E.J. Miller, "The Impact of High-Voltage Power Lines on Freehold Residential Property Values in the Greater Toronto Area", 2001 CRSA Meeting, Montreal: June, 2001.

Miller, E.J. and P.A. Salvini, "Microsimulating Urban Systems", presented at the Canadian Institute of Transportation Engineers 2001 Conference, Calgary, May 13-16, 2001.

Miller, E.J., "Microsimulating Activity-Based Travel", presented to the Toronto ITS Testbed Advisory Board, Toronto, February 28, 2001.

Miller, E.J., "Analysis Needs for Urban Energy Planning" presented at the Workshop on Urban Energy Tools and CO<sub>2</sub> Planning, Toronto, March 22-23, 2001.

Haider, M. And E.J. Miller, "The Impact of Power Lines Freehold Residential Property Values in the Greater Toronto Area", 2<sup>nd</sup> Annual GEOIDE Networks of Centres of Excellence Conference, Calgary, May 25-26, 2001.

Mohammadian, A. And E.J. Miller, "Estimating the Expected Price of Vehicles in a Transportation Microsimulation Modeling System", 80<sup>th</sup> Annual Mtg of the TRB, Washington, D.C., January, 2001.

Miller, E.J. and A. Shalaby, "Historical Trends in Travel Behavior in the Greater Toronto Area and Policy Implications", (poster session) 80<sup>th</sup> Annual Mtg of the TRB, Washington, D.C., January, 2001.

Miller, E.J., "Travel in the GTA: Past & Current Behaviour and Relation to Urban Form", presented in Panel III - Can Growth Be Managed? in Portrait of a Region: The Face of Our Future, a workshop sponsored by the Canadian Urban Institute, Toronto, December 12, 2000.

Miller, E.J., "Travel in the GTA: Past & Current Behaviour and Relation to Urban Form", presented to the Transportation Information Steering Committee, Toronto, December 6, 2000.

Moderator, "Addressing the Transportation Challenge" session, Urban Summit, Toronto, Nov., 29, 2000.

Miller, E.J. "Uses of TTS and Census Place of Work Data", Seminar on Applied Uses of Census Place of Work Data for Transportation and Planning Purposes, and Beyond, Mississauga, Ont., October 20, 2000.

Miller, E.J., "Travel in the GTA: Past & Current Behaviour and Relation to Urban Form", presented to the Greater Toronto Services Board, Toronto, October 6, 2000.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Miller, E.J., "Travel in the GTA: Past & Current Behaviour and Relation to Urban Form", presented to the Portrait of a Region, Workshop I, Richmond Hill, Ont., September 22, 2000.

Miller, E.J. and A. Haroun, "A Microsimulation Model of Residential Housing Markets", presented at the 9<sup>th</sup> International Association for Travel Behaviour Research Conference, Gold Coast, Queensland, Australia, July 2-5, 2000.

Miller, E.J., "Land Use and Light Rail Transit", invited presentation to the Blue Ribbon Task Force, Austin Chamber of Commerce, Austin, Tx.: June 13, 2000.

Miller, E.J. and A.S. Shalaby, "Travel Behaviour in the Greater Toronto Area and Policy Implications", presented at the 3<sup>rd</sup> Transportation Conf. of the CSCE, London, Ont.: June 7-10, 2000.

Abdulhai, B.D., E.J. Miller and R.M. Soberman, "Building Ontario's ITS R&D Capacity: A Unique Multi-Disciplinary and Multi-Sector ITS Testbed", presented at the 3<sup>rd</sup> Transportation Conference of the Canadian Society of Civil Engineers, London, Ont.: June 7-10, 2000.

Mohammadian, A. and E.J. Miller, "A Comprehensive and Operational Modelling Framework for Automobile Ownership in an Integrated Land-Use, Transportation, and Environment Modelling System", presented at the 3<sup>rd</sup> Transportation Conf. of the CSCE, London, Ont.: June 7-10, 2000.

Miller, E.J. and A.S. Shalaby, "Urban Form and Travel Behaviour Trends in the Greater Toronto Area, 1964-1996", presented at the 2000 Meeting of the Can. Reg. Science Assoc., Toronto: June 2-4, 2000.

Villeneuve, P., E.J. Miller, M. Lee-Gosselin, P.S. Kanaraglou and J.D. Hunt, "Rethinking The Behavioural Foundations of Integrated Land Use, Transportation and Environmental Impact (ILUTE) Models", presented at the 2000 Meeting of the Can. Regional Science Assoc., Toronto: June 2-4, 2000.

Mohammadian, A. and E.J. Miller, "Empirical Analysis of Household Choice Among Vehicles", presented at the 2000 Meeting of the Canadian Regional Science Association, Toronto: June 2-4, 2000.

Haider, M. and E.J. Miller, "The Impact of Power Lines on Freehold Residential Property Values in the Greater Toronto Area", presented at the Second Annual GEOIDE Network of Centres of Excellence Conference, Calgary, May 25-26, 2000.

Miller, E.J., "Travel in the GTA: Past & Current Behaviour and Relation to Urban Form", presented to the GTA Forum, May 11, 2000.

Miller, E.J., "Overview of Modelling Methods", presented at the Workshop on Tools for Transportation Energy Use and CO<sub>2</sub> Planning, Toronto, February 4, 2000.

Haider, M. and E.J. Miller, "Effects of Infrastructure and Locational Elements on Residential Real Estate Values: An Application of Autoregressive Techniques", presented at the 79<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2000.

Pushkar, A.O., B.J. Hollingworth and E.J. Miller, "A Multivariate Regression Model for Estimating Greenhouse Gas Emissions from Alternative Neighborhood Designs", (poster session) presented at the 79<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2000.

Roorda, M., A. Mohammadian and E.J. Miller, "Toronto Area Car Ownership Study: A Retrospective Interview and Its Applications", presented at the 79<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2000.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Miller, E.J. and A. Haroun, "A Descriptive Analysis of a Region-Wide Residential Mobility Survey", presented at the 46<sup>th</sup> Annual Meeting of the North American Regional Science Association", Montreal, November, 1999.

Miller, E.J. and M. Haider, "Development of Hedonic Price Indices for Freehold Properties in the Greater Toronto Area: Application of Spatial Autoregressive Techniques", presented at the 46<sup>th</sup> Annual Meeting of the North American Regional Science Association", Montreal, November, 1999.

Miller, E.J., "Experience with Microsimulation", invited presentation, University of Montreal, November 12, 1999.

Invited Discussant, International Symposium on Structural Change in Transportation and Communications in the Knowledge Society: Implications for Theory, Modeling and Data, Boston: Boston University, October 19, 1999.

Soberman, R.M., C. Mwalwanda and E.J. Miller, "Full Cost Pricing and Sustainable Urban Transportation", presented at the UTP Conference, Toronto: May, 1999.

Miller, E.J., "Experience with Microsimulation" presented at the Fourth Travel Model Improvement Program Conference, Philadelphia, April, 1999.

Miller, E.J. "Transportation in the Urban Ecosystem" presented at the Workshop on Air Issues and Urban Ecosystems, Toronto, March 22, 1999.

Elmi, A., D.A. Badoe, and E.J. Miller, "Transferability Analysis of Work-Trip Distribution Models" 78<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1999.

Miller, E.J., D.S. Kriger and J.D. Hunt, "A Research and Development Program for Integrated Urban Models" presented at the 78<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1999.

Miller, E.J., "Dynamic Traffic Assignment Models, Part 2: Planning and Evaluation Applications" invited panelist, Session 108, 78<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1999.

Miller, E.J., "Transportation Education into the 21<sup>st</sup> Century", invited speaker, Symposium on Transportation and Logistics in the Information Age, Center for Transportation Studies, M.I.T., Cambridge, Mass., November 20, 1998.

Miller, E.J., "GTAMODEL Version 1.1", workshop presented to Greater Toronto Area planners, Toronto: Joint Program in Transportation, University of Toronto, October 16, 1998.

Soberman, R.M. and E.J. Miller, "Full Cost Pricing and Sustainable Urban Transportation", seminar, Institute for Environmental Studies, Toronto: University of Toronto, Oct. 8, 1998.

Miller, E.J., "A Survey of Ongoing Research and Development Work Outside of Oregon", presented at the Oregon Symposium on Integrated Land Use and Transport Models, Portland Oregon, Sept. 30 - Oct. 2, 1998.

Abdulhai, B., E.J. Miller and R.M. Soberman, "A Toronto-Based ITS R&D Testbed", presented at the 51<sup>st</sup> Annual Conference of the North Atlantic Transportation Planning Officials, Toronto: Aug. 31, 1998.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Doherty, S.T. and E.J. Miller, "Understanding Household Spatial Movements: an Investigation of the Underlying Activity Scheduling Process" presented at the Annual Conference of the Canadian Association of Geographers, Ottawa: June 1-3, 1998.

Miller, E.J., D.S. Kriger and J.D. Hunt, "Integrated Urban Models Research Needs", presented at the ASCE Conference on Transportation, Land Use and Air Quality, Portland, OR, May 17-20, 1998.

Miller, E.J. and A. Ibrahim, "Urban Form and Vehicle Usage", presented at the 77<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 12-15, 1998.

Miller, E.J., "Current State of Modelling in the GTA" and "Principles and Objectives for Model Development", presented at "A Workshop on Transportation Planning and Travel Demand Modelling in the GTA", Toronto: October 22, 1997.

Doherty, S.T. and E.J. Miller, "Tracing the Household Activity Scheduling Process Using One-Week Computer-Based Survey", presented at the Eighth Meeting of the International Association of Travel Behaviour Research, Austin, Tx., September 22-24, 1997.

Chair, Sessions 99 and 110, "Transportation Planning", XIII<sup>th</sup> World Meeting of the International Road Federation, Toronto: June 19, 1997.

Miller, E.J., "Current Modelling Methods in the GTA, Part I", and "Deficiencies in Current Methods", presented at the "Greater Toronto Area Travel Demand Modelling Workshop", Toronto: June 4, 1997.

Miller, E.J. "Transportation Energy Efficiency Research at the University of Toronto", presentation to the Government-Industry Motor Vehicle Energy Committee, Natural Resources, Canada, Toronto, Oct. 21, 1996.

Anderson, W.P., P.S. Kanaroglou and E.J. Miller, "Measuring External Effects of Transport with a Land Use Approach", invited presentation at the Neuvièmes Entretiens du Centre Jacques Cartier, in the session "Mesurer et maîtriser les effets externes du transport, Montreal: October 3, 1996.

Miller, E.J. and A. Ibrahim, "Urban Form and Transportation Energy Efficiency: Preliminary Analysis", presented at the Annual Meeting of the Canadian Regional Science Association, Brock University, St. Catharines, May 31, 1996.

Anderson, W.P., P.S. Kanaroglou, E.J. Miller and R.N. Buliung, "Simulating Automobile Emissions in an Integrated Urban Model", presented at the 75<sup>th</sup> Ann. Mtg. of the TRB, Washington, D.C., Jan., 1996.

Hollingworth, B. and E.J. Miller, "Retrospective Interviewing and Its Application in the Study of Residential Mobility", presented at the 75<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1996.

Miller, E.J., "Travel Model Improvement Activity in Toronto, Canada", presented at the Travel Model Improvement Program Second Conference, Daytona Beach, December, 1995.

Seekings, M. and E.J. Miller, "Modelling Rail Access Mode and Station Choice in EMME/2", presented at the Annual EMME/2 User's Conference, Portland, Or., November, 1995.

Badoe, D.A. and E.J. Miller, "Analysis of the Temporal Transferability of Disaggregate Work Trip Mode Choice Models", presented at the 74<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1995.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Badoe, D.A. and E.J. Miller, "Comparison of Alternative Methods for Updating Disaggregate Logit Mode Choice Models", presented at the 74<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1995.

Invited panelist, Session 3, "Transportation Energy: Determining Factors and Analytical Framework", The Green Fleets Project Meeting #1: Municipal Transportation Energy Use, International Council for Local Environmental Initiatives, Toronto: June 6, 1994.

Anderson, W.P., P. Kanaroglou and E.J. Miller, "Integrated Land Use and Transportation Model for Energy and Environmental Analysis", presented at the 40th North American Meeting of the Regional Science Association International, Houston: November 12, 1993.

Miller, E.J., "Modelling Urban Transportation Energy Consumption", invited paper, presented at A Workshop on Energy Efficiency Potential in Canada, Hull, May, 1993.

Miller, E.J., "Quantitative Analysis of Urban Transportation Energy Use & Emissions", presentation to Energy, Mines & Resources, Canada, Ottawa, May 3, 1993

Chair of the one-day seminar "The Use of Census Place of Work Data for Transportation Planning" sponsored by Transportation Association of Canada, Canadian Institute of Planners and Statistics Canada, Toronto: March 4, 1993.

Miller, E.J., "Central Area Mode Choice and Parking Demand", presented at the 72<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.: January, 1993.

Fan, K.S., E.J. Miller and D. Badoe, "Modelling Rail Access Mode and Station Choice", presented at the 72<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.: January, 1993.

Invited discussant, Session 6, "Dynamic Analysis Methods, Part II", First U.S. Conference on Panels for Transportation Planning", Lake Arrowhead, Cal., October, 1992.

Miller, E.J., "Urban Travel Demand Modelling State-of-Practice and Research Needs", presented at the Annual Conference of the Canadian Operations Research Society, Toronto, June, 1992.

Miller, E.J., Chair and Invited Discussant, 38<sup>th</sup> North American Meeting of the Regional Science Assoc. International, Session: "Analyzing Travel and Transportation Demand", New Orleans, Nov., 1991.

Cheah, L.S. and E.J. Miller, "Development of an Integrated Multimodal Mode Choice and Route Assignment Model", presented at the EMME/2 Users Conference, Pasadena, Cal., June, 1991.

Miller, E.J., P.J. Noehammer, L.S. Cheah and P. Bartos, "Development and Use of an Integrated Multimodal Mode Choice and Route Assignment Model", presented at the Third National Conference on Transportation Planning Methods Applications, Dallas, April, 1991.

Miller, E.J., "Residential Mobility Microsimulation: Preliminary Results", presented at the Fifth World Conference on Transport Research, Yokohama, Japan, July, 1989.

Miller, E.J., "Dynamic Models of Urban Housing Markets", presented at the 11<sup>th</sup> Pacific Regional Science Conference, Singapore, July, 1989.

Rapporteur, Workshop 4: "Managing Growth in Urban Areas", Roads and Transportation Association of Canada Symposium: The Political Response to Road Infrastructure Needs, Hamilton, April, 1989.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Miller, E.J. and D.F. Crowley, "A Panel Survey Approach to Measuring Transit Route Service Elasticity of Demand", presented at the 68th Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1989.

Miller, E.J., L.S. Cheah and W. Cheng, "Towards an Operational Model of Continuous Intra-Urban Residential Search", presented at the 35th North American Meeting of the Regional Science Association, Toronto, November, 1988.

Chair and lead discussant, Session 58: "Spatial Behavior: Theory and Experiments", 35<sup>th</sup> North American Meeting of the Regional Science Association, Toronto, November, 1988.

Miller, E.J., "Residential Location Modelling: Progress Report and Research Issues", seminar presented to the Transportation Center, Northwestern University, Evanston, Ill., October, 1988.

Miller, E.J., "Transportation Demand Modelling", presented to the Committee on Microcomputers in Transportation, Ontario Ministry of Transportation, Toronto, February 22, 1988.

Miller, E.J. and P.M. Sarjeant, "A Model of Continuous Intra-Urban Residential Search", presented at the 34<sup>th</sup> North American Meeting of the Regional Science Association, Baltimore, November, 1987.

Invited discussant, Session 5: "Urban Land Use Modelling", 34<sup>th</sup> North American Meeting of the Regional Science Association, Baltimore, November, 1987.

Miller, E.J., "Modelling Automobile Holdings and Usage in Two-Vehicle Households", seminar presented to the Department of Economics, Macquarrie University, Ryde, New South Wales, August 26, 1987.

Invited discussant: "Consumer Choice and the Delineation of Retail Trade Areas", 11<sup>th</sup> Annual Meeting of the Canadian Regional Science Association, McMaster University, Hamilton, May, 1987.

Miller, E.J. and P.D. Bunt, "A Simulation Model of Shared Right-of-Way Streetcar Operations", presented at the 66<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1987.

Miller, E.J., "Transit Route Ridership Forecasting: Current State and Future Trends", presented at the Annual Conference of the Canadian Institute of Planners, Vancouver, July, 1986.

Invited discussant, Session 24: "Retail Trade: Analysis and Models", 32<sup>nd</sup> North American Meeting of the Regional Science Association, Philadelphia, November, 1985.

Miller, E.J., "Computer Graphics Analysis of Census Data for Transportation Planning", presented at the International Conference on the Use of Computers in Civil Engineering, Toronto, August, 1985.

Berkowitz, M.K., N.T. Gallini, E.J. Miller and R.A. Wolfe, "Forecasting Vehicle Holdings and Usage: A Case Study", presented at the 5<sup>th</sup> International Symposium on Forecasting, Montreal, June, 1985.

Berkowitz, M.K., N.T. Gallini, E.J. Miller and R.A. Wolfe, "Disaggregate Modelling of Vehicle Ownership and Use", presented at the 64<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1985.

Cubukgil, A., R.M. Soberman and E.J. Miller, "Transit Improvements Under Capital Restraints: The Case of Cairo", presented at the University of Birmingham, January, 1985.

## **ERIC JOHN MILLER**

### **TECHNICAL PRESENTATIONS (continued)**

Miller, E.J., "Residential Location and the Journey-to-Work in the Greater Toronto Area: Some Empirical Results", seminar, Dept. of Geography, McMaster University, Hamilton, November 30, 1984.

Miller, E.J., "Transportation and Urban Form: Choices for the Future", lecture to the Later Life Learning Lecture Series, School of Continuing Studies, University of Toronto, Toronto, January 23, 1984.

O'Kelly, M.E. and E.J. Miller, "Multistop Multipurpose Travel Characteristics: An Empirical Study of Trip Length", 63<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., Jan., 1984.

O'Kelly, M.E. and E.J. Miller, "An Empirical Study of Trip Generation", presented at the Annual Meeting of the Institute of British Geographers, Durham, U.K., January, 1984.

Miller, E.J. and R.A. Wolfe, "Future Innovations in the Supply of Transportation Services for Seniors", Annual Conference of the Roads and Transportation Association of Canada, Edmonton, Sept., 1983.

Wolfe, R.A., E.J. Miller, R. Ridout, M.K. Berkowitz and N.T. Gallini, "Vehicle Ownership and Usage in Canada: Data Issues and Collection", presented at the Annual Conference of the Roads and Transportation Association of Canada, Edmonton, September, 1983.

Wolfe, R.A. and E.J. Miller, "Long-Range Transportation Planning for Seniors in Ontario", presented at the 62<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1983.

Ridout, R. and E.J. Miller, "A Disaggregate Logit Model of Intercity Passenger Modal Choice", presented at the Annual Conference of the Roads and Transportation Association of Canada, Halifax, September, 1982.

Miller, E.J. and M.E. O'Kelly, "Estimating Shopping Destination Choice Models From Travel Diary Data", 61<sup>st</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1982.

Invited discussant: Session 14: "Transportation and Downtown Retail Activity", 61<sup>st</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1982.

Bookbinder, J.H., F.J. Ahlin, E.J. Miller and P.D. Bunt, "Scheduling and Dispatching of Demand-Responsive Transportation", ORSA/TIMS Joint National Meeting, Houston, October, 1981.

Miller, E.J., P.D. Bunt, F.J. Ahlin and J.H. Bookbinder, "Computer Applications in Paratransit Reservations, Scheduling and Dispatching: A Case Study", presented at the Annual Conference of the Roads and Transportation Association of Canada, Winnipeg, September, 1981.

Sims, D. and E.J. Miller, "Energy Consumption of Alternative Fixed-Route Transit Modes", Annual Conference of the Roads and Transportation Association of Canada, Winnipeg, September, 1981.

Miller, E.J., "Transit Planning and Land Use Trends: Issues and Research Needs", presented at the Annual Conference of RTAC, Toronto, September, 1980.

Miller, E.J. and S.R. Lerman, "Disaggregate Modelling of Retail Firms' Decisions: A Case Study of Clothing Retailers", presented at the 26<sup>th</sup> North American Meeting of the Regional Science Association, Los Angeles, November, 1979.

Wilson, N.H.M. and E.J. Miller, "Recent Advances in Computer Control Procedures for Demand Responsive Transportation Systems", presented at the ORSA/TIMS Joint National Meeting, Miami, November, 1976.

## ERIC JOHN MILLER

### RESEARCH GRANTS AND CONTRACTS

#### Major areas of research:

Microsimulation modelling methods and their application to the integrated modelling of travel demand and urban form; development and applications of disaggregate choice models of travel behaviour; analysis of transportation - land use interactions; transportation energy & emissions modelling; analysis of transit demand and operations. The motivation of this research is to develop improved transportation and urban planning policy analysis tools to support sustainable urban development.

<b>Duration</b>	<b>Research/Funding Agency</b>	<b>Total Funding for Grant Period</b>
2011-2013	Visualizing Urban Futures: Geomatics Decision Support Tools for Canadian Urban Regions (GEOIDE & Neptis Foundation)	\$762,000
2011-2012	Travel Modelling Group (Metrolinx + 6 other agencies)	\$215,000
2010	Airport Superhubs: A Literature Review (Greater Toronto Airports Authority)	\$10,410.96
2010	Climate Positive Tool Development (Waterfront Toronto)	\$49,993.84
2009-2010	Tower Neighbourhood Renewal in the Greater Golden Horseshoe (with ERA Architects & planningAlliance)	\$9,700 (UofT portion)
2009-2013	Agent-Based Microsimulation of Activity and Travel (NSERC Discovery Grant)	\$55,500 (per year)
2009	Exploration of the capacity to reduce GHG emissions through policy to encourage integrated urban energy systems (QUEST: Quality Urban Energy Systems of Tomorrow)	\$120,629.95
2009	Improving Transportation for the GTHA (Metrolinx)	\$30,000
2009-2019	The Canadian Aerosol Research Network (CARN): Climate, Air Quality and Health on 2020 (CFI; G. Evans PI + many co-investigators)	\$6,059,069 (total, no budget allocated yet to me)

**ERIC JOHN MILLER****RESEARCH GRANTS AND CONTRACTS, cont'd**

<b>Duration</b>	<b>Research/Funding Agency</b>	<b>Total Funding for Grant Period</b>
2008	Organizational Structures for Regional Travel Demand Modelling (Metrolinx)	\$32,880
2006-08	Development of an Operational Integrated Urban Modelling System (Transport Canada)	\$299,909
2005-06	Completion and Application of an Urban Form Analysis Model for the GTA (EJLB Foundation)	\$25,000
2005-06	Completion and Application of an Urban Form Analysis Model for the GTA (McLean Foundation)	\$10,000
2005-06	Completion and Application of an Urban Form Analysis Model for the GTA (Salamander Foundation)	\$10,000
2005-06	Development and Application of the TASHA/ILUTE Software System for Land Use and Transportation Policy Analysis in the GTA (Neptis Foundation)	\$50,000
2005-2010	Memorandum of Understanding re. Support for Transportation Engineering Research (Ontario Ministry of Transportation) (PI, with 3 co-investigators)	\$50,000 (per year)
2005-2006	Sustainable Freight Options for the Montreal-Toronto-Windsor Corridor (Transport Canada) (Shared with 2 co-investigators)	\$131,400
2005-2006	Activity-Based, Multi-Modal Modelling of Travel Behaviour for Urban Design (Transport Canada) (PI, with 3 co-investigators)	\$100,580
2005-2006	Multi-Modal Travel Demand Modelling for Urban Policy Analysis (Transport Canada) (PI, grant held by MTO as lead agency)	\$479,042
2004-2009	Modelling Household Activity and Travel (NSERC Discovery Grant)	\$28,000 (per year)
2004	Provision of Emissions-Related Data (City of Toronto Department of Public Works and the Environment)	\$5,000
2003-2005	Transportation Implications of Canada's Aging Population (GEOIDE, Networks of Centres of Excellence) (shared with 5 other co-investigators)	\$150,000
2003-2004	Performance-Based Transit Funding (Neptis Foundation)	\$10,350
2002-2003	Study of Environmental Benefits of an Integrated Mobility System (IMS) for the Greater Toronto Area (Transportation Options, Moving the Economy)	\$30,000
2002	Transportation and Housing Costs in the Greater Toronto Area: An Empirical Analysis, 1986-2001 (Neptis Foundation)	\$28,000
2001	Estimating CO <sub>2</sub> Emissions and Other Transportation Impacts of Alternative Urban Forms (City of Toronto)	\$21,000
2001	A Personal-Use Vehicle Emissions Audit for the GTA (Toronto Atmospheric Fund)	\$20,020
2000-2005	Access to Activities and Services in Urban Canada: Behavioural Processes That Condition Equity and Sustainability (SSHRC Major Collaborative Research Grant)	\$2,215,800 (shared with 7 other co-investigators)
2000-2004	Microsimulation in Modelling of Activity/Travel (NSERC Discovery Grant)	\$22,000 (per year)
1999-2003	Human Behaviour and GIS Based Land Use and Transportation Modelling (GEOIDE NCE)	\$100,000.00 (per year, shared with 7 other co-investigators)
1999	Travel in the Greater Toronto Area: Current Behaviour & Its Relation to Urban Form (NEPTIS Foundation)	\$28,000
1998-2000	GTA Model Update (Ministry of Transportation, Ontario)	\$39,200
1998-99	Issues on Panel Surveys (Ministry of Transportation, Ontario)	\$20,000
1997	Integrated Urban Models for Simulation of Transit and Land-Use Policies (U.S. Transportation Research Board TCRP Project H-12)	US\$100,000
1996-2000	Urban Travel Demand Model Improvements (NSERC Individual Grant)	\$20,700 (per year)

**ERIC JOHN MILLER**

**RESEARCH GRANTS AND CONTRACTS (continued)**

<b>Duration</b>	<b>Research/Funding Agency</b>	<b>Total Funding for Grant Period</b>
1995-98	Integrated Transport and Land-Use Modelling for Environmental Analysis (NSERC Collaborative Project Grant)	\$106,000 (per year)
1995	GTA Modelling System Development (Ministry of Transportation, Ontario)	\$17,000
1994	Metro Model Extensions, 1994 (Metropolitan Toronto Planning Dept.)	\$24,500
1993-94	Metro Model Sensitivity Tests (Metropolitan Toronto Planning Dept.)	\$15,000
1993	Quantitative Analysis of Urban Transportation Energy Use and Emissions: Phase I (Energy, Mines & Resources Canada)	\$22,775
1992-93	Integrated Land Use and Transportation Model for Energy and Environmental Analysis (Ontario Ministry of Energy)	\$30,000
1992-93	Travel Demand Model Improvements, 1992 (Metropolitan Toronto Planning Dept.)	\$29,850
1992-96	Development of Improved Urban Travel Demand Models (NSERC Individual Grant)	\$20,000 (per year)
1991-92	Short-Run Improvements to the Metro Toronto Mode Split/Assignment Modelling Procedure (Metropolitan Toronto Planning Dept.)	\$19,995
1991-92	Understanding and Modelling Modal Choice in the Greater Toronto Area (Ministry of Transportation, Ontario)	\$20,000
1990-91	Development of an Operational Peak-Period Work Trip Mode Split Model for Metro Toronto (Metropolitan Toronto Planning Dept.)	\$49,937.50
1989-92	Analysis and Modelling of Urban Spatial Patterns and the Journey to Work (NSERC Grant)	\$25,000 (per year)
1989-90	Modelling Central Area Work Trip Modal Choice and Parking Demand (City of Toronto Planning Dept.)	\$23,744
1989-90	Understanding Urban Travel Growth in the GTA (Ministry of Transportation Ontario)	\$35,035
1987	Service Elasticity of Demand, Part II: The Mt. Pleasant Pilot Test (Toronto Transit Commission)	\$ 8,000
1986	Service Elasticity of Demand: A Study Design (Toronto Transit Commission)	\$14,495
1986-89	Analysis and Modelling of Urban Spatial Patterns and the Journey to Work (NSERC Operating Grant)	\$23,000 (per year)
1985	Development of Transit Route Ridership Forecasting Techniques (Toronto Transit Commission)	\$13,000
1985	Passenger Travel Demand Analysis: A Review of the State-of-the-Art (Transport Canada)	\$ 3,000
1983-86	Modelling Multistop Multipurpose Non-Work Tripmaking (NSERC Operating Grant)	\$13,780 (per year)
1983-84	1981 Census Data Analysis for the Greater Toronto Area (Ministry of Transportation Ontario)	\$20,000
1983-84	Multinomial Probit Choice Models (Transport Canada Negotiated Research Grant)	\$12,000
1983-84	Modelling Canadian Auto Holdings and Usage: Phase II (Transportation Energy Division, Energy, Mines and Resources, Canada)	\$46,000
1982-83	Modelling Canadian Auto Holdings and Usage: Phase I (Transportation Energy Division, Energy, Mines and Resources, Canada)	\$50,000
1982-83	Intercity Passenger Travel - A Behavioural Study (Transport Canada Grant)	\$17,490
1981	Planning for an Aging Society Transportation Substudy (Ontario Ministry of Urban Affairs and Housing)	\$ 9,750
1980-81	Energy Consumption of Alternative Transport Modes (Transport Canada Grant)	\$22,645
1980	Land Use Trends and Transportation Demand Forecasting (Ministry of Transportation Ontario)	\$23,666
1980	Feasibility Study of A Computer-Aided Reservation Scheduling and Dispatching System for the Wheel-Trans System (Toronto Transit Commission)	\$ 5,945

## **ERIC JOHN MILLER**

### **PROFESSIONAL CONTRIBUTIONS/CONSULTING ACTIVITIES**

#### **Consultant to government agencies:**

- Ministry of Transport, Infrastructure and Communities, Canada
- Greater Toronto Airports Authority
- Ontario Ministry of Public Infrastructure Renewal
- British Columbia Ministry of Transportation and Highways
- City of Toronto Planning Department
- City of Toronto Department of Public Works & the Environment
- Detroit International Bridge Co.
- Metropolitan Toronto Planning Department
- Ministry of Finance Ontario, Coordinated Strategic Research Division
- Ministry of Transportation Ontario
- Toronto Transit Commission
- Urban Transportation Development Corporation
- U.S. Department of Transportation

#### **Consultant to private consulting firms:**

- Cambridge Systematics
- Canadian Urban Institute
- HDR/iTRANS Consultants
- Lea Associates
- IBI Group
- Delcan Corporation
- Florida Overland Express
- COMSIS Corporation
- Tranplan Associates
- Transmode Consultants
- UMA
- Marshall Macklin Monaghan (MMM)

#### **Major Private Consulting Projects (PI):**

2011-12: *Changing Practices in Data Collection on the Movement of People*

Sponsor: Transportation Association of Canada

2007-08: *Needs Assessment Study – Pickering Lands*

Sponsor: Greater Toronto Airports Authority

2004-05: *GTAA Airport Access Study*

Sponsor: Greater Toronto Airports Authority

## **ERIC JOHN MILLER**

### **PROFESSIONAL CONTRIBUTIONS/CONSULTING ACTIVITIES, cont'd**

#### **Expert/Peer Review Panels & Project Advisories**

Member, Transit Expert Panel, City of Toronto (2012)  
Senior Advisor to Cambridge Systematics, UrbanSIM Model Development Support Project, Denver Region Council of Governments (2011-present)  
Member, US FHWA Expert Panel on the State of the Art in Travel Demand Modelling (2011)  
Member, Southeast Michigan Council of Governments (Detroit) Travel Demand Model Peer Review Panel (2011)  
Advisor to the Comprehensive Transport Study for the Hyderabad Metropolitan Region (with Lea International Ltd.) (2011-present)  
Member, Peer Review Panel for the Portland Metro "DASH" dynamic tour-based model system (2011-present)  
Member, Waterloo Rapid Transit Implementation Options Peer Review Panel (2011)  
Member, Ridership Forecasting Peer Review Panel, California High Speed Rail Authority (2011-present)  
Member, Metrolinx Expert Review Panel on Project Evaluation Methods (2010)  
Chair, Expert Panel, Activity-Based Travel Demand Model Project, Southern California Association of Governments (2010)  
Advisor to US Federal Highway Administration, Multimodal Inter-Regional Passenger Travel Demand (January 2010)  
Member, Waterloo Transit Proposal Peer Review (2008)  
Chair, Burlington, Vt. TRANSIMS Model (Oct., 2007).  
Member, US Federal Transit Administration Panel on Economic Development Impacts of Rail Transit Investment (Oct., 2007).  
Principal Advisor to the Greater Golden Horseshoe Modelling Project (2006-2010).  
Member, TRANSIMS Portland Technical Working Group (2002-2009)  
Advisor to The Neptis Foundation (2001-present)  
Advisor to the Comprehensive Transport Study for the Mumbai Metropolitan Region (with Lea International Ltd.) (2005-2006)  
Reviewer of the Region of Waterloo Growth Management Strategy and Transit Initiative transit ridership forecasts (2005-2006)  
Advisor to the Comprehensive Public Transportation Plan for Arridyah, Saudi Arabia (with IBI Group) (2004-2005)  
Chair, Las Vegas Maglev Project Peer Review Panel (2005)  
Member, Baltimore TMIP Peer Review Panel (2004-2005)  
Principal Investigator, GTAA Airport Access Study (for the Greater Toronto Airports Authority) (2004-2005)  
Co-reviewer, Vancouver Travel Demand Modelling System (2004)  
Member, Expert Panel, Denver Regional Government Modelling Project (2003-2004)  
Member, Peer Review Panel, UrbanSim Application in the Greater Wasatch Front Region (Salt Lake City) (2003)  
Member, Ohio-Kentucky-Indiana Regional Council of Governments (Cincinnati) Travel Demand Model Peer Review Panel (1994-1997; 2003).  
Chair, Pittsburgh Maglev Project Peer Review Panel (2001-2003).  
Chair, Baltimore-Washington Maglev Project Peer Review Panel (2000-2003).  
Member, Baltimore Mode Choice Model Peer Review Panel (1998-2000).  
Member, Ohio State Integrated Land Use - Transportation Modeling Panel (1998).  
Member, Policy Group, Ontario Transportation and Climate Change Collaborative (1994-95).  
Advisor to the International Institute for Energy Conservation (Washington, D.C) (1994-95).  
Member of University of Toronto - York University Joint Program in Transportation project team, "Development of a Five-Year Investment Plan for the Cairo Transport Authority" (1982).

## ERIC JOHN MILLER

### TEACHING EXPERIENCE

Course No.	Title	Level
APS100 (1989)	Computing Programming	Year I
MAT186 (1982)	Calculus I	Year I
MAT194 (1984-86)	Calculus	Year I
CIV267 (1988)	Public Speaking	Year II
CIV268 (1998)	Engineering Economics & Decision-Making	Year II
CIV332 (1990-97)	Transport II: Performance	Year III
CIV356 (2001-2005)	Infrastructure Design Project (0.25 load)	Year III
CIV368 (2000)	Engineering Economics & Decision-Making	Year III
CIV425 (2007-08)	Design Project	Year IV
CIV531 (1983-91; 1999-2006)	Transport III: Planning	IV/Graduate
CIV1504 (1989)	Applied Probability & Statistics for Civil Engineers	Graduate
CIV1505 (1990-91; 2003-07)	Transportation Research Seminar	Graduate
CIV1535 (1979-present)	Transportation and Development	Graduate
CIV1538 (1983-2010)	Transportation Demand Analysis	Graduate
ECE1116 (1985,87,91)	Transportation Engineering and Planning	APEO-related evening course

#### At McMaster University (1978-79)

CIV3K3	Introduction to Transportation Planning	Year III
CIV4H3	Transportation and Land Use Modelling	IV/Graduate
CIV738	Transportation Systems Evaluation	Graduate
GEO4J6	Urban Behavioural Geography	Graduate

#### At Massachusetts Institute of Technology (1987-2002)

CTS31s	Public Transportation and Operations Planning	Summer short course
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#### Short Courses, University of Toronto

Public Transit Planning and ITS (2010, 2011)		
Spatial Statistics Workshop, GEOIDE NCE sponsored graduate short course (2001)		
Urban Transportation Policy Development, for the Ontario Ministry of Transportation and Communications (1987)		
Transport Policy and Planning, for the Economic Development Institute (1981).		
Transportation Studies Program for Senior Planners, for Transport Canada Training Institute (1980)		
CIV1599 (1979-80)	Transportation Planning in Developing Countries (U of T-M.I.T. Joint Summer Course)	Graduate

#### Other

2000-2003	Faculty Summer Mentorship Program lecture, "Transportation Engineering and Planning"	
1999-2003	Faculty "Saturday Lecture" series for high school students, "Getting From Here to There"	
2000-2001	Presentation to National Scholars Candidates tour of University of Toronto	
2000	University of Toronto Discovery Day lecture, "Intelligent Transportation Systems: If roads are so smart, how come I'm still stuck in traffic?"	

## **ERIC JOHN MILLER**

### **SERVICE ON UNIVERSITY COMMITTEES**

#### **Department of Civil Engineering**

2007, Sept-Dec Interim Chair  
2006-2008 Director, Urban Transportation Research & Advancement Centre (formerly Joint Program in Transportation)  
2004-2008 Member, Departmental Executive Committee  
2006-2007 Bio-engineering Faculty Search Committee  
2005 Transportation Faculty Search Committee  
2004-06 Awards Committee  
2004-05 Appeals Committee  
2003, July-Dec. Acting Department Chair  
1996-present Various tenure and probationary review committees  
1996-99, 2001-04, 2005-06 Senior Promotions Committee  
1989-2008 Transportation Section Coordinator  
2001-03, 2004-05 Academic Planning Committee  
2000-01, 2004-05 Examinations & Degree Committee  
1998-2000 High School Liaison Committee  
1996-2001 Various Departmental Search Committees for new faculty members  
1983-2000 Academic Planning Committee (Chair, 1990-93)  
1998-99 Acting Department Chair  
1995-98 Graduate Coordinator  
1995-98 Admissions Committee (Chair)  
1995-98 Examinations & Degree Committee  
1984-98 Chair's Advisory Committee on Computing.  
1995 Probationary Review Committee  
1994-95 Senior Promotions Committee  
1994 Strategic Planning Committee (Chair)  
1992-93 Senior Promotions Committee  
1990 Environmental Faculty Search Committee  
1989-92 Admissions Committee (also 1984-85).  
1984-92 Coordinator, Departmental research computing facility.  
1984-85 Departmental Task Force on Undergraduate Curriculum.

#### **Faculty of Applied Science & Engineering**

2007-2008 Senior Promotions Committee  
2001-2008 Associate Chair, Infrastructure Engineering Option, Division of Engineering Science  
2007 Search Committee for new chair of the Department of Civil Engineering  
1998-2006 Director, Joint Program in Transportation  
2002-2003 Task Force on Years I & II Curricula, Division of Engineering Science  
1998-99 Executive Committee  
1992 Dean's Task Force on Use of Space in Galbraith Building  
1990-92 Executive Committee  
1985-92 Committee on Teaching Methods & Resources (Chair, 1990-92; Vice-Chair, 1989-90).  
1988-89 Search Committee for new chair of the Department of Civil Engineering

#### **School of Graduate Studies**

1995-98 Division III Executive Committee  
1995-96 Division III Degree Committee

## **ERIC JOHN MILLER**

### **SERVICE ON UNIVERSITY COMMITTEES, cont'd**

#### **University**

2008-present	Director, Cities Centre
2008-2009	Search Committee for new Dean of the Faculty of Architecture, Landscape & Design
2007-2008	Cities Centre Executive Committee
2005-2006	Member, Provostial Task Force on Urban Issues
2005	Group Leader, Urban Transportation Ontario Research Chair Application
1999-2001	Search Committee for new Dean of the Faculty of Applied Science and Engineering