

March, 2006

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
Faculty Associate, Centre for Urban and Community Studies, University of Toronto

PERSONAL

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

Citizenship: Canadian

Addresses:

Office:

Home:

Department of Civil Engineering
University of Toronto
35 St. George Street
Toronto, Ontario
M5S 1A4
Tel: (416) 978-4076
Fax: (416) 978-5054
e-mail: miller@civ.utoronto.ca

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

UNIVERSITY EDUCATION

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

ACADEMIC EXPERIENCE

Dates	Position	Institution
2000-present	Bahen-Tanenbaum Professor	Dept. of Civil Engineering, University of Toronto
1997-present	Director	Joint Program in Transportation, University of Toronto
2003 (July-Dec.)	Acting Chair	Dept. of Civil Engineering, University of Toronto
1990 - 2000	Professor	Dept. of Civil Engineering, University of Toronto
1998 - 1999	Acting Chair	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

Dates	Position	Institution/Company
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

Bahen-Tanenbaum Chair, University of Toronto
 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

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)

MEMBERSHIP ON TECHNICAL & ACADEMIC COMMITTEES

International Association for Travel Behaviour Research (IATBR):

IATBR Vice-Chair (2006-present)

Member of Scientific IATBR Conferences: 6th Conference, Quebec City, May, 1991; 7th Conference, Santiago, June, 1994; 8th Conference, Austin, Sept. 1997; 9th Conference, Australia, July, 2000; 10th Conference, Switzerland, 2003.

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-present)

Transportation Research Board (U.S.):

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

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

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

Transportation Demand Forecasting Committee (1982 - present).

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, *Transport Reviews*, (2001-present)

Editor, *Transportation* (2002-2004)

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

Other:

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

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.

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

UNDERGRADUATE STUDENTS' THESES SUPERVISED

Year	No.	Students
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

Name	Years
Buliung, R. ¹	2005
Mohammadian, A. ¹	2002-2003 (co-supervised with P.S. Kanaroglou, McMaster University)
Doherty, S.D. ²	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

¹ NSERC Post-Doctoral Fellow² SSHRC Post-Doctoral Fellow

GRADUATE STUDENTS' THESES SUPERVISED

	MEng	MASc	MscPL	MES	PhD	Total
Current	0	3.5	0	0	7	10.5
Completed	8	27.5	9.5	1	7	53

Student	Thesis Title	Degree	Year
Hatzopoulo, M.	"Transportation Emissions Modelling"	Ph.D.	2004-present
Habib, M.A.	"Housing Market Modelling"	Ph.D.	2004-present
Green, L.	"Sustainable Transportation" (co-supervised with C.A. Kennedy)	M.A.Sc.	2004-present
Mehta, P.	"Transportation Needs and Travel Behaviour of the Inner-City"	M.A.Sc.	2004-present
Coleman, J.	"Technology Effects in Transit Mode Choice"	M.A.Sc.	2004-present
Li, L.C.	"Longitudinal Analysis of Modal Service Elasticities" (co-supervised with A. Shalaby)	M.A.Sc.	2004-present
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)	2004-present
Elgar, I.	"Firm Location Modelling"	Ph.D.	2003-present
Habib, K.M.N.	"Activity/Travel Modelling"	Ph.D.	2003-present
Mohammed, A.	"Modelling Transit Supply" (co-supervised with A. Shalaby)	Ph.D.	2003-present
Carrasco, J.A.	"Modelling Social Networks"	Ph.D.	2002-present
Haroun, A.	"Microsimulating Residential Housing Markets"	Ph.D.	2000-present
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

GRADUATE STUDENTS' THESES SUPERVISED (continued)

Student	Thesis Title	Degree	Year
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"	MscP	2004
Maybe, S.	"The Mid-Peninsula Highway: A Smart Growth Solution or Problem?"	MscP	2004
Tsang, F.	"Accessibility and Economic Productivity" (co-supervised with C. Kennedy)	M.A.Sc.	2004
Sousa, P.	"Performance-Based Transit Funding"	M.A.Sc.	2004
Ranjan, K.	"Application of UrbanSim to the Hamilton Region"	M.Eng.	2003
Mamun, S.	"Modelling Express Bus Services"	M.A.Sc.	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"	M.A.Sc.	2002
Grinspun, Y.	"Taxiway Delay and Predictability at Pearson International Airport"	M.A.Sc.	2002
Lee, A.	"Analysis of Personal-Use Vehicle Emissions in the Greater Toronto Area, 1986-1996"	M.A.Sc.	2002
Poon, W.	"An Investigation into Residential Relocation Rules and Processes"	M.A.Sc.	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"	M.A.Sc.	2001
Becharra, A.	"Exploratory Review of Motorization Trends, Its Impact on Global Warming and Policy Recommendations for Developing Countries"	M.A.Sc.	2000
Lee, C.	"A Micro-scale Simulation Model of Carbon Dioxide Emissions from Passenger Cars Using Classification and Regression Methods"	M.A.Sc.	2000
Haider, M.	"Developing Hedonic Price Indices for Freehold Properties in The Greater Toronto Area: Application of Spatial Autoregressive Techniques"	M.A.Sc.	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"	M.A.Sc.	1998
Roorda, M.	"Toronto Area Car Ownership Survey: Survey Design and Preliminary Results"	M.A.Sc.	1998

GRADUATE STUDENTS' THESES SUPERVISED (continued)

Student	Thesis Title	Degree	Year
Elmi, A.	"Analysis of the Temporal Transferability of Work Trip Distribution 'Gravity Models'"	M.A.Sc. (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"	M.A.Sc.	1998
Ibrahim, A.	"Investigation of the Relationship between Urban Spatial Structure and Travel Demand in the GTA"	M.A.Sc.	1996
Vladisavljevic-Vojinovic, D.	"An Investigation of Nested Logit Structures for Work Trip Mode Choice Models"	M.A.Sc.	1996
Hollingworth, B.	"The Development of a Residential Mobility Model Using Retrospective Survey Data"	M.A.Sc.	1995
Bolanowska, M.	"Investigation of Students' Trip Making Behaviour in the Hamilton-Wentworth Area"	M.A.Sc.	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"	M.A.Sc.	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"	M.A.Sc.	1988
Cheng, W.	"Modelling the Spatial Component of Residential Search"	M.A.Sc.	1988
Farrol, B.	"MADITUC: A Transit Operations Planning Model for the Greater Toronto Area"	M.Eng.	1988
Ho, A.	"The Queen Streetcar Simulation Model"	M.A.Sc.	1988
Lee, S.	"Interactive Graphics Software to Analyze Travel Patterns"	M.Eng.	1987
Noehammer, P.	"A Residential Mobility Simulation Model"	M.A.Sc.	1987
Tai, K.	"Design of an Interactive Computer Graphics Package for Transit Route Ridership forecasting Analysis"	M.A.Sc.	1987
Sarjeant, P.	"A Continuous Search Model of Residential Mobility Decision Making"	M.A.Sc.	1986
Long, R.	"Behavioural Models of Freight Mode Share in Canada"	M.A.Sc.	1984
Ridout, R.	"A Disaggregate Model of Intercity Passenger Modal"	M.Eng.	1982
Sims, D.	"Energy Consumption of Alternative Transport Modes"	M.A.Sc.	1982

Member of McMaster University Ph.D. Supervisory Committees for: Lisa Aultman-Hall (Civil Eng., 1994-96); Darren Scott (Geography, 1998-2000), Ron Buliung (Geography, 1999-2004), Hanna Maoh (Geography, 2002-present), Dimitris Potiglou (2003-present)

Member of Ph.D. Examination Committees for: T. Shin; I. Geva; B. Persaud; L. Lo (Geography, U. of T.); P. Kanaroglou (Geography, McMaster); E. Quaye; M. Hassounah; M. Ghaeli; W. Salman; J. Wang (Geography, U. of T.); K. Helali (Civil Eng., Waterloo)¹; B. Son; A. Shallaby; E. Hildebrand (Civil Eng., Waterloo)¹; C. Bee (Economics, Rutgers)¹; D. Lord; J. Bamfo; L. Kattan

Member of M.Sc. Examination Committee for: D. Buckeridge (Community Health)

¹ External Reviewer

PAPERS IN REFEREED JOURNALS

Lifetime Published 49
Accepted 6
Submitted: 2

Carrasco, J.A. and E.J. Miller, “Exploring The Propensity To Perform Social Activities: A Social Networks Approach”, submitted to *Transportation*, 2006.

Carrasco, J.A., B. Hogan, B. Wellman and E.J. Miller, “Collecting Social Network Data to Study Activity-Travel Behavior: An Egocentric Approach”, submitted to *Environment and Planning B*, 2005.

Elgar, I and E.J. Miller, “A Conceptual Model of Small Office Firm Location”, forthcoming, *Transportation Research Records, Journal of the Transportation Research Board*, 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”, forthcoming, *Transportation Research Records, Journal of the Transportation Research Board*, 2006.

Habib, K.M.N. and E.J. Miller, “Modelling Individuals’ Frequency and Time Allocation Behaviour for Shopping Activities Considering Household Level Random Effects”, forthcoming, *Transportation Research Records, Journal of the Transportation Research Board*, 2006.

Habib, K.M.N. and E.J. Miller, “Modelling Skeletal Components of Workers’ Daily Activity Schedules”, forthcoming, *Transportation Research Records, Transportation Research Board*, 2006.

Sousa, P. and E.J. Miller, “A Performance-Driven Transit Funding Model”, forthcoming, *Transportation Research Records, Journal of the Transportation Research Board*, 2005.

Tsang, F. A.S. Shalaby and E.J. Miller, “Improved Modeling of Park-and-Ride Transfer Time: Capturing the Within-day Dynamics”, forthcoming, *Journal of Advanced Transportation*, 2005.

PAPERS IN REFEREED JOURNALS (continued)

Kennedy, C.A., E.J. Miller, A.S. Shalaby, H. MacLean and J. Coleman, "The Four Pillars of Sustainable Urban Transportation", *Transport Reviews*, Vol. 25, No. 4, 2005, pp. 393-414

Salvini, P.A. and E.J. Miller, "ILUTE: An Operational Prototype of a Comprehensive Microsimulation Model of Urban Systems", *Networks and Spatial Economics*, Vol. 5, 2005, pp. 217-234.

Hunt, J.D., E.J. Miller, and D.S. Kriger, "Current Operational Urban Land-Use Transport Modeling Frameworks", *Transport Reviews*, Vol. 25, No. 3, May, 2005, pp. 329-376.

Miller, E.J., M.J. Roorda and J.A. Carrasco, "A Tour-Based Model of Travel Mode Choice", *Transportation*, Vol. 32, No. 4, 2005, pp. 399-422.

Miller, E.J., "Introduction", guest editorial in special issue "Recent Advances in Activity-Based Travel Models", *Transportation*, Vol. 32, No. 4, 2005, pp. 319-320.

Miller, E.J., "The Trouble with Intercity Travel Demand Models", *Transportation Research Records, Journal of the Transportation Research Board*, No. 1895, 2004, pp. 94-101.

Haider, M. and E.J. Miller, "Modelling Location Choices of Housing Builders in the Greater Toronto Area", *Transportation Research Records, Journal of the Transportation Research Board*, No. 1898, 2004, pp. 148-156.

Doherty, S.T., E. Nemeth, M.J. Roorda and E.J. Miller, "Design and Assessment of the Toronto Area Computerized Household Activity Scheduling Survey", *Transportation Research Records, Journal of the Transportation Research Board*, No. 1894, 2004, pp. 140-149.

Miller, E.J., M.J. Roorda, M. Haider and A. Mohammadian, "Empirical Analysis of Travel and Housing Costs in the Greater Toronto Area", *Transportation Research Record, Journal of the Transportation Research Board*, No. 1898, 2004, pp. 191-201.

Miller, E.J., J.D. Hunt, J.E. Abraham and P.A. Salvini, "Microsimulating Urban Systems", *Computers, Environment and Urban Systems*, special issue, "Geosimulation: Object-Based Modeling of Urban Phenomena", Vol. 28, 2004, pp. 9-44.

Mohammadian, A. and E.J. Miller, "An Empirical Investigation of Household Vehicle Type Choice Decisions", *Journal of Transportation Research Record*, No. 1854, 2003, pp. 99-106.

Mohammadian, A. and E.J. Miller, "Dynamic Modeling of Household Automobile Transactions", *Transportation Research Record, Journal of the Transportation Research Board*, No. 1831 2003, pp. 98-105.

Miller, E.J. and M.J. Roorda, "A Prototype Model of Household Activity/Travel Scheduling", *Transportation Research Record, Journal of the Transportation Research Board*, No. 1831, 2003, pp. 114-121.

Miller, E.J. and A.S. Shalaby "Evolution of Personal Travel in Toronto Area and Policy Implications", *Journal of Urban Planning and Development*, Vol. 129, No. 1, March, 2003, pp. 1-26.

Mohammadian, A. and E.J. Miller, "Nested Logit Models and Artificial Neural Networks for Predicting Household Automobile Choices: Comparison of Performance", *Transportation Research Record, Journal of the Transportation Research Board*, No. 1807, pp. 92-100, 2002.

Mohammadian, A. and E.J. Miller, "Estimating Expected Price of Vehicles in a Transportation Microsimulation Modeling System", *Journal of Transportation*, 2002, pp. 537-541.

PAPERS IN REFEREED JOURNALS (continued)

Haider, M. and E.J. Miller, "Effects of Infrastructure and Locational Elements on Residential Real Estate Values: An Application of Autoregressive Techniques", *Transportation Research Record 1722*, 2000, pp. 1-8.

Roorda, M., A. Mohammadian and E.J. Miller, "Toronto Area Car Ownership Study: A Retrospective Interview and Its Applications", *Transportation Research Record, Journal of the Transportation Research Board*, No. 1719, 2000, pp. 69-76.

Badoe, D.A. and E.J. Miller, "Transportation - Land-Use Interactions: Empirical Findings and Implications for Modeling" *Transportation Research D: Transport & Environment*, Vol. 5D, No. 4, 2000, pp. 235-263.

Doherty, S.T. and E.J. Miller, "Tracing the Household Activity Scheduling Process Using One-Week Computer-Based Survey", *Transportation*, Vol. 27, 2000, pp. 75-97.

Miller, E.J., D.S. Kriger and J.D. Hunt, "A Research and Development Program for Integrated Urban Models", *Transportation Research Record, Journal of the Transportation Research Board*, No. 1685, 1999, pp. 169-176.

Elmi, A., D.A. Badoe, and E.J. Miller, "Transferability Analysis of Work-Trip Distribution Models", *Transportation Research Record, Journal of the Transportation Research Board*, No. 1676, 1999, pp. 169-176.

Soberman, R.M. and E.J. Miller, "The Impacts of Full Cost Pricing on the Sustainability of Urban Transportation: Towards Canada's Kyoto Commitments", *Canadian Journal of Civil Engineering*, Vol. 26, No. 3, 1999, pp. 345-354.

Badoe, D.A. and E.J. Miller, "An Automatic Segmentation Procedure for Studying Variations in Mode Choice Behavior", *Journal of Advanced Transportation*, Vol. 32, No. 2, 1998, pp. 190-215.

Miller, E.J. and A. Ibrahim, "Urban Form and Vehicular Travel: Some Empirical Findings", *Transportation Research Record, Journal of the Transportation Research Board*, No. 1617, 1998, pp. 18-27.

Badoe, D.A. and E.J. Miller, "Modeling Mode Choice with Data from Two Independent Cross-Sectional Surveys: An Investigation", *Transportation Planning and Technology*, Vol. 21, 1998, pp. 235-261.

Hollingworth, B. and E.J. Miller, "Retrospective Interviewing and Its Application in the Study of Residential Mobility", *Transportation Research Record 1551*, 1996, pp. 74-81.

Anderson, W.P., P.S. Kanaroglou, E.J. Miller and R.N. Buliung, "Simulating Automobile Emissions in an Integrated Urban Model", *Transportation Research Record 1520*, 1996, pp. 71-80.

Anderson, W.P., P.S. Kanaroglou and E.J. Miller, "Urban Form, Energy, and the Environment: A Review of Issues, Evidence, and Policy", *Urban Studies*, Vol. 33, No. 1, 1996, pp. 7-35.

Badoe, D.A. and E.J. Miller, "Analysis of the Temporal Transferability of Disaggregate Work Trip Mode Choice Models", *Transportation Research Record 1493*, 1995, pp. 1-11.

Badoe, D.A. and E.J. Miller, "Comparison of Alternative Methods for Updating Disaggregate Logit Mode Choice Models", *Transportation Research Record 1493*, 1995, pp. 90-100.

Hassounah, M.I. and E.J. Miller, "Modelling Air Pollution From Road Traffic: A Review", *Traffic Engineering & Control*, September, 1994, pp. 510-514.

PAPERS IN REFEREED JOURNALS (continued)

Miller, E.J. "Central Area Mode Choice and Parking Demand", *Transportation Research Record 1413*, 1993, pp. 60-69.

Fan, K.S., E.J. Miller and D. Badoe, "Modeling Rail Access Mode and Station Choice", *Transportation Research Record 1413*, 1993, pp.49-59.

Berkowitz, M.K., N.T. Gallini, E.J. Miller and R.A. Wolfe, "Disaggregate Analysis of the Demand for Gasoline", *Canadian Journal of Economics*, Volume 23, No. 2, May, 1990, pp. 253-275.

Miller, E.J. and D.F. Crowley, "Panel Survey Approach to Measuring Transit Route Service Elasticity of Demand", *Transportation Research Record 1209*, 1989, pp. 26-31.

Ridout, R. and E.J. Miller, "A Disaggregate Logit Model of Intercity Passenger Modal Choice", *Canadian Journal of Civil Engineering*, Vol. 16, No. 4, August, 1989, pp. 568-575.

Miller, E.J. and P.D. Bunt, "A Simulation Model of Shared Right-of-Way Streetcar Operations", *Transportation Research Record 1152*, 1988, pp. 31-41.

Berkowitz, M.K., N.T. Gallini, E.J. Miller and R.A. Wolfe, "Forecasting Vehicle Holdings and Usage with a Disaggregate Choice Model", *Journal of Forecasting*, Vol. 6, No. 4, 1987, pp. 249-269.

O'Kelly, M.E., and E.J. Miller, "Characteristics of Multistop Multipurpose Travel: An Empirical Study of Trip Length", *Transportation Research Record 976*, 1984, pp. 33-39.

Wolfe, R.A. and E.J. Miller, "Long-Range Transportation Planning for Seniors in Ontario", *Transportation Research Record 934*, 1984, pp. 44-50.

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", *Transportation Forum*, Vol. 1, No. 2, September, 1984, pp. 40-48.

Miller, E.J. and M.E. O'Kelly, "Estimating Shopping Destination Choice Models From Travel Diary Data", *Professional Geographer*, Vol. 35, No. 4, 1983, pp. 440-449.

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Dosman, E., E.J. Miller, R.G. Rice, R.M. Soberman and G.N. Steuart, *Preliminary Analysis of Policy Options for Federal Involvement in Urban Transportation*, final report to Transport Canada, Toronto: University of Toronto - York University Joint Program in Transportation, 1980.

Miller, E.J. and G.N. Steuart, *Reassessment of the Demand for Commuter Transit in the Toronto Region*, Research Report No. 74, Toronto: University of Toronto - York University Joint Program in Transportation, 1980.

Miller, E.J., F.J. Ahlin, P.D. Bunt, J.H. Bookbinder and R.N. Wolff, *Wheel-Trans: Feasibility of Computer-Aided Reservations, Scheduling, and Dispatching*, Research Report No. 73, Toronto: University of Toronto - York University Joint Program in Transportation, 1980.

Wilson, N.H.M. and E.J. Miller, *Advanced Dial-A-Ride Algorithms Research Project Phase II: Interim Report*, Cambridge, Ma.: M.I.T. Dept. of Civil Engineering Report R77-31, July, 1977.

BOOKS AND BOOK CHAPTERS (Lifetime Published or Accepted: 7)

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*, (T. Bunting and P. Filion, eds.), Toronto: Oxford University Press, 2000, pp. 173-197.

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 Published or Accepted: 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.

TECHNICAL PRESENTATIONS (Lifetime: 200)
(Excludes presentations listed under "Papers in Conference Proceedings")

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

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

Habib, M.A., M.J. Roorda and E.J. Miller, "Microsimulation of Bid Formation and Acceptance Process of The Housing Market", submitted for presentation at the 11th International Association for Travel Behaviour Research Conference, Kyoto, August 16-20, 2006.

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

TECHNICAL PRESENTATIONS (continued)

Miller, E.J., "Integrated Urban Models: Progress to Date; Future Prospects", invited resource paper to be presented at the 11th International Association for Travel Behaviour Research Conference, Kyoto, August 16-20, 2006.

Santos, B., A. Antunes and E.J. Miller, "OptRoad: A Computer Program for Interurban Road Network Planning", to be presented at the Joint International Conference on Computing and Decision-Making in Civil and Building Engineering, Montreal, June 14-16, 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 (GTA)", to be presented at the New Scholars Conference on Sustainable Transportation, University of Indiana, May, 2006.

Elgar, I and E.J. Miller, "A Conceptual Model of Small Office Firm Location", pre-print CD, 85th Annual Meeting of the Transportation Research Board, Washington, D.C., January, 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 85th 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 85th 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 85th Annual Meeting of the Transportation Research Board, Washington, D.C., January 23-26, 2006.

Carrasco, J.A. and E.J. Miller, "Exploring The Propensity To Perform Social Activities: A Social Networks Approach", presented at the 85th 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 52nd 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 52nd 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 52nd North American Meeting of the Regional Science Association International, 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.

TECHNICAL PRESENTATIONS (continued)

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. and E.J. Miller, "Understanding social networks and activity-travel behaviour: An ego-centered data collection effort", 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.

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., E.J. Miller and N. Kruchten, "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.

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.

TECHNICAL PRESENTATIONS (continued)

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 33rd CSCE Annual Conference, Toronto: June 2-4, 2005.

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 6th Transportation Specialty Conference, Toronto: June 2-4, 2005.

Miller, E.J., B. Abdulhai and A.S. Shalaby, "Towards Sustainable Urban Transportation", presented at the 33rd 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 6th Transportation Specialty Conference, Toronto: June 2-4, 2005.

Miller, E.J., "Simulating Cities", presented at the CSCE 6th Transp. 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 6th 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", presented at the CSCE 6th 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.

TECHNICAL PRESENTATIONS (continued)

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

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

Miller, E.J., “Integrated Land Use Modeling: Current State and Future Prospects”, presented at the 84th 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*, 84th 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 7th 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 7th 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

ERIC JOHN MILLER

28

System, Budapest, Hungary, April 22-23, 2004.

TECHNICAL PRESENTATIONS (continued)

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 83rd 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 83rd Annual Mtg. of the Transportation Research Board, Washington, D.C., Jan., 2004.

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

Salvini, P.A. and E.J. Miller, "The Role of Computational Sciences: The ILUTE System", presented at Integrative Modelling of Sustainable Land Use, A Cross-Disciplinary Workshop, Horgen, Switzerland, November 24-25, 2003.

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

Miller, E.J., Chair, Workshop 2.2, "Large Scale Models and Microsimulation", 10th 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. and M.J. Roorda, "A Prototype Model of Household Activity/Travel Scheduling", presented at the 82nd 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 82nd Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2003.

Mohammadian, A. and E.J. Miller, "Empirical Investigation of Household Vehicle Type Choice Decisions", presented at the 82nd Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2003.

Miller, E.J., Invited Panelist, "Moving Activity-Based Approaches to Practice: Developments and Challenges", Session 262, 82nd Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2003.

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

TECHNICAL PRESENTATIONS (continued)

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.

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 30th Annual Meeting of the Canadian Society of Civil Engineers, June 5-8, 2002.

Miller, E.J., "A Microsimulation Model of Urban Systems", presented at the 30th Annual Meeting of the Canadian Society of Civil Engineers, 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 Regional Science Association, 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 Regional Science Association, 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 98th Annual Meeting of the Association of American Geographers, Los Angeles, March 19-23, 2002.

TECHNICAL PRESENTATIONS (continued)

Shalaby, A.S. and E.J. Miller, "Long Term Travel Trends in the Greater Toronto Area", presented at the "Trends in the Geography of Mobility" session of the 98th Annual Meeting of the Association of American Geographers, Los Angeles, March 19-23, 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 81st 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 81st 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", presented at the 2001 Meeting of the Canadian Regional Science Association, 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 CO₂ Planning, Toronto, March 22-23, 2001.

Miller, E.J. and A. Shalaby, "Historical Trends in Travel Behavior in the Greater Toronto Area and Policy Implications", (poster session) presented at the 80th Annual Meeting of the Transportation Research Board, 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 within the Urban Summit, Toronto, November, 29, 2000.

Miller, E.J. "Uses of TTS and Census Place of Work Data", presented at A 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.

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 9th 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 3rd 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 3rd 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 3rd 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. Regional 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 CO₂ 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 79th 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 79th 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 79th Annual Meeting of the Transportation Research Board, Washington, D.C., January, 2000.

TECHNICAL PRESENTATIONS (continued)

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

Kruger, D.S., E.J. Miller and J.D. Hunt, "Integrated Urban Models: Improving the State-of-the-Practice", *Proceedings of the 7th TRB Conference on the Application of Transportation Planning Methods*, Boston, 1999, pp.210-224.

Soberman, R.M., C. Mwalwanda and E.J. Miller, "Full Cost Pricing and Sustainable Urban Transportation", presented at the UITP 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" presented at the 78th 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, 78th Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1999.

Miller, E.J., "Transportation Education into the 21st 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 51st Annual Conference of the North Atlantic Transportation Planning Officials, Toronto: Aug. 31, 1998.

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.

TECHNICAL PRESENTATIONS (continued)

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 77th 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", XIIIth 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.

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 75th Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1996.

Hollingworth, B. and E.J. Miller, "Retrospective Interviewing and Its Application in the Study of Residential Mobility", presented at the 75th 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 74th Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1995.

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

TECHNICAL PRESENTATIONS (continued)

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.

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 72nd 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 72nd 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, 38th North American Meeting of the Regional Science Association International, Session: "Analyzing Travel and Transportation Demand", New Orleans, November, 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.

Invited discussant, Session II: "Intermodal Substitution", John Deutsch Forum on Canadian Transportation Policy, Queens University, Kingston, April, 1990.

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 11th 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.

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.

TECHNICAL PRESENTATIONS (continued)

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", 35th 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 34th North American Meeting of the Regional Science Association, Baltimore, November, 1987.

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

Miller, E.J., "Trends and Potentials in Urban Travel Demand Modelling", presented at the Annual Conference of the Roads and Transportation Association of Canada, Saskatoon, September, 1987.

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

Invited discussant: "Consumer Choice and the Delineation of Retail Trade Areas", 11th 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 66th 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", 32nd 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 5th 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 64th 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.

TECHNICAL PRESENTATIONS (continued)

Miller, E.J., "Residential Location and the Journey-to-Work in the Greater Toronto Area: Some Empirical Results", seminar presented to the Department 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", 63rd 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", presented at the Annual Conference of the Roads and Transportation Association of Canada, Edmonton, September, 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 62nd 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", presented at the 61st Annual Meeting of the Transportation Research Board, Washington, D.C., January, 1982.

Invited discussant: Session 14: "Transportation and Downtown Retail Activity", 61st 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", presented at the 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", presented at the 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 26th 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.

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.

Duration	Research/Funding Agency	Total Funding for Grant Period
2006-08	Development of an Operational Integrated Urban Modelling System (Transport Canada) (applied for)	\$300,000
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 2 con-investigators)	\$50,000 (per year)
2005-2006	Sustainable Freight Options for the Montreal-Toronto-Windsor Corridor (Transport Canada)	\$131,400 (Shared with 2 co-investigators)
2005-2006	Activity-Based, Multi-Modal Modelling of Travel Behaviour for Urban Design (Transport Canada)	\$100,580 (PI, with 3 co-investigators)
2005-2006	Multi-Modal Travel Demand Modelling for Urban Policy Analysis (Transport Canada)	\$479,042 (PI, grant held by MTO as lead agency)
2004-2009	Modelling Household Activity and Travel (NSERC Discovery Grant)	\$28,000 (per year)

RESEARCH GRANTS AND CONTRACTS, cont'd

Duration	Research/Funding Agency	Total Funding for Grant Period
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 ₂ 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, Networks of Centres of Excellence)	\$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)	\$39,200.00
1998-99	Issues on Panel Surveys (Ministry of Transportation, Ontario)	\$20,000.00
1997	Integrated Urban Models for Simulation of Transit and Land-Use Policies (U.S. Transportation Research Board TCRP Project H-12)	US\$100,000.00
1996-2000	Urban Travel Demand Model Improvements (NSERC Individual Grant)	\$20,700.00 (per year)
1995-98	Integrated Transport and Land-Use Modelling for Environmental Analysis (NSERC Collaborative Project Grant)	\$106,000.00 (per year)
1995	GTA Modelling System Development (Ministry of Transportation, Ontario)	\$17,000.00
1994	Metro Model Extensions, 1994 (Metropolitan Toronto Planning Dept.)	\$24,500.00
1993-94	Metro Model Sensitivity Tests (Metropolitan Toronto Planning Dept.)	\$15,000.00
1993	Quantitative Analysis of Urban Transportation Energy Use and Emissions: Phase I (Energy, Mines & Resources Canada)	\$22,775.00
1992-93	Integrated Land Use and Transportation Model for Energy and Environmental Analysis (Ontario Ministry of Energy)	\$30,000.00
1992-93	Travel Demand Model Improvements, 1992 (Metropolitan Toronto Planning Dept.)	\$29,850.00

RESEARCH GRANTS AND CONTRACTS (continued)

Duration	Research/Funding Agency	Total Funding for Grant Period
1992-96	Development of Improved Urban Travel Demand Models (NSERC Individual Grant)	\$20,000.00 (per year)
1991-92	Short-Run Improvements to the Metro Toronto Mode Split/Assignment Modelling Procedure (Metropolitan Toronto Planning Dept.)	\$19,995.00
1991-92	Understanding and Modelling Modal Choice in the Greater Toronto Area (Ministry of Transportation, Ontario)	\$20,000.00
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/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 Negotiated 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 Negotiated 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

PROFESSIONAL CONTRIBUTIONS/CONSULTING ACTIVITIES

Consultant to government agencies:

- 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:

- iTRANS Consultants
- Lea Associates
- IBI Group
- Delcan Corporation
- Florida Overland Express
- COMSIS Corporation
- Tranplan Associates
- Transmode Consultants
- UMA
- Marshall Macklin Monaghan

Advisor to the Comprehensive Transport Study for the Mumbai Metropolitan Region (with Lea International Ltd.) (2005-present)

Reviewer of the Region of Waterloo Growth Management Strategy and Transit Initiative transit ridership forecasts (2005-present)

Advisor to the Comprehensive Public Transportation Plan for Arridyah, Saudi Arabia (with IBI Group) (2004-present)

Principal Investigator, GTAA Airport Access Study (for the Greater Toronto Airports Authority) (2004-present)

Chair, Las Vegas Maglev Project Peer Review Panel (2005-present)

Member, Baltimore TMIP Peer Review Panel (2004-2005)

Member, TRANSIMS Portland Technical Working Group (2002-present)

Advisor to The Neptis Foundation (2001-present)

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 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).

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-present)	Infrastructure Design Project (0.25 load)	Year III (Eng.Sci.)
CIV368 (2000)	Engineering Economics & Decision-Making	Year III
CIV531 (1983-91; 1999-present)	Transport III: Planning	IV/Graduate
CIV1504 (1989)	Applied Probability & Statistics for Civil Engineers	Graduate
CIV1505 (1990-91; 2003-present)	Transportation Research Seminar	Graduate
CIV1535 (1979-present)	Transportation and Development	Graduate
CIV1538 (1983-present)	Transportation Demand Analysis	Graduate
CIV1599 (1979-80)	Transportation Planning in Developing Countries (U of T-M.I.T. Joint Summer Course)	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

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).

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?"

SERVICE ON UNIVERSITY COMMITTEES**Department of Civil Engineering**

2005 Departmental Search Committee for new faculty member (Transportation)
 2004-present Member, Departmental Executive Committee
 2004-present 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-present 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 Departmental Search Committee for new faculty member (Environmental)
 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

2001-present Associate Chair, Infrastructure Engineering Option, Division of Engineering Science
 1998-present 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

University

2005 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