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EDUCATION:

Ph.D.	University of Toronto	Economics	1975
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AREAS OF INTEREST:

Industrial Organization, Corporate and Management Strategies, Competition Policy
Transportation and Regulatory Economics, Aviation and Air Transport Economics, Urban transportation, Travel
Demand Analysis, Choice Modeling, Application of Management Economics to Transportation Policy and Planning,
Performance and Productivity Analysis, Economics of Strategy.

Memberships

American Economics Association
Canadian Economics Association
German Aviation Research Society

Series Editor, Springer Publishers Series in Transportation Research and Policy
Associate Editor Transportation Research E: Logistics & Transportation Review
Editorial Board: Journal of Transport Economics & Policy

Appointments

Vancouver International Airport Chair in Transportation Policy and Management, Sauder School, UBC
Chair Operations & Logistics Division, Sauder School
Director Centre for Transportation Studies, University of British Columbia
Member, Greater Vancouver Gateway Council
Reason Foundation, Los Angeles Advisory Board to Mobility Project to the Transportation Community

PROFESSIONAL ACTIVITY:

Sometimes consultant to: City of Edmonton; Alberta Economic Development, Alberta Department of Transportation; Government of Ontario; Canadian Transport Commission; Ontario Economic Council; Economic Council of Canada; Transport Canada; National Transportation Agency; Consumer and Corporate Affairs; Treasury Board; Investment Canada; Office of Regulatory Reform; Department of Fisheries & Oceans; Restricted Trade Practices Commission; Department of Communications; Eastman Royal Commission; Canadian National Railways; Transport Development Agency; Office of the Auditor General; Federal Department of Public Works; Division of Aeronautics, California Department of Transportation; Division of New Technology, California Department of Transportation, National Academy of Sciences US), Transportation Research Board, Governments of Thailand, Ghana, Germany and UK, Hansiatic State of Hamburg (Germany), Federal Aviation Administration (US), Federal Highway Administration (US), Civil Aviation Authority (Ireland), Civil aviation Authority (UK) Air Canada, Westjet, Greater Toronto Airports Authority, Hamburg Airport, Vancouver Airport Authority, New Zealand Commerce Commission and legal firms and other private sector clients.

Articles in Refereed Journals

Gillen, David (2010), The Evolution of Airport Governance and Ownership (forthcoming *Journal of Air Transport Management*)

Gillen, David (2009), The Volatility of Airfares in Markets, *Transportation Research E- Logistics and Transportation Review*, Vol. 45, No. 6 pp 1020-1029 (with Benny Mantin)

Gillen, David (2006), Airline Business Models and Networks: Regulation, Competition and Evolution in Aviation Markets, *Journal of Network Economics*, Vol 5, Issue 4 - December 2006,

Gillen, David and William Morrison (2005), The Economics of Franchise Contracts and Airport Policy *Journal of Air Transport Management*, Vol 11, No 1, pp 43-48

Gillen, David and William Morrison (2005), Airline Strategies, Competition and Network Evolution: How Important are Slots?, Vol 11, No. 1, *Journal of Air Transport Management*

Atkins, F., Cooper, D., Gillen, D. "Measuring the Impact of Changes in Graduated Licensing Laws: The Case of California", *Accident Analysis and Prevention*, 2005.

David Gillen, Ashish Lall, Some Competitive Advantages for Low Cost Airlines: Implications for Airports, *Journal of Air Transport Management*, Vol. 10, No. 1, pp. 41-50, 2003

Gillen, D., Morrison, W. "Bundling, Integration and the Delivered Price of Air Travel: Are Low Cost Carriers Full Service Competitors?" *Journal of Air Transport Management*, Vol. 9, No. 1 pp 15-23, 2002.

Gillen, D., Lall, A. "International Transmission of Shocks in the Airline Industry," *Journal of Air Transport Management*, Vol. 9, No. 1, pp 37-49, 2003.

Gillen, D., R. Harris, and T. Oum, "Measuring the Economic Effects of Bilateral Liberalization on Air Transport," *Transportation Research*, Vol. 28E, No. 3-4, May 2002.

Gillen, D., and A. Lall, "The Economics of the Internet, the New Economy and Opportunities for Airports," *Journal of Air Transport Management*, Vol. 8, No. 1, pp. 49-63, January 2002.

Gillen, D., and A. Lall, "Non-Parametric Measures of Efficiency of US Airports," *International Journal of Transport Economics*, Vol. 28, No. 3, pp. 283-306, 2001.

Gillen, D., "Productivity Benefits and Cost Efficiencies from ITS Applications to Public Transit: Evaluation of AVL," *Journal of Transportation Research Board*, No. 1774, pp. 78-92, 2001.

Gillen, D., "Assessing the Economic Benefits from the Implementation of New Pavement Construction Methods," *Journal of Transportation Research Board*, No. 1747, pp. 71-78, 2001.

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Gillen, D. and J.-F. Wen, "Taxing Hydro-Power in Ontario," *Canadian Public Policy*, March 2000.

Gillen, D., D. Levinson, and A. Kanafani, "The Social Costs of Intercity Transportation: A Review and Comparison of Air and Highway," *Transport Reviews*, Vol. 18, pp. 215-240, 1998.

Levinson, David, Adib Kanafani, and David Gillen. 1999. Air, High Speed Rail or Highway: A Cost Comparison in the California Corridor. *Transportation Quarterly* 53: 1 123-132

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Gillen, D., D. Levinson, "The Full Cost of Intercity Highway Transportation," *Transport Research D*, 1998.

Gillen, D., D. Levinson, M. Mathieu, and A. Kanafani, "The Full Costs of High Speed Rail: An Engineering Approach," *Annals of Regional Science*, 1997.

Gillen, D., R. Cline, T. Ruhl, and G. Gosling, "Air Transportation Demand Forecasts in Emerging Market Economies," *Journal of Air Transport Management*, 1997.

Gillen, D., and A. Lall, "Airport Performance Measurement: Data Envelopment Analysis and Frontier Production Functions," *Transportation Research E*, 1997.

Noori, H., and D. Gillen, "A Performance Measuring Matrix for Capturing the Impact of Advanced Manufacturing Technologies," *International Journal of Production Management*, Vol. 33, pp. 2037-2048, 1996.

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"A Performance Measuring Matrix for Capturing the Impact of Advanced Manufacturing Technologies" *International Journal of Production Management*, Vol. 33, No. 7 (1995) pp. 2037-2048 (with Hamid Noori)

"A Socio-economic Assessment of Complaints about Aircraft Noise" *Transportation Planning and Technology*, 1994, Vol. 18, pp.45-55 (with T.J. Levesque)

"Assessing the Alternatives to Liberalize the Canada-U.S. Air Transport Bilateral", *Journal of the Transportation Research Forum* , Vol. 31, 2, (1990) pp. 326-336 (with Mark Hansen and Robson Ramos)

"Privatization of Air Canada; Why it is Necessary in a Deregulated Environment" *Canadian Public Policy*, Vol. XV, No.3, September 1989, pp. 285-299

"The Cost Structure of the Canadian Airline Industry", Vol. 24, No. 1 *Journal of Transport Economics and Policy*, (January, 1990) 9-34

"Airport Pricing Principles: An Application to Canadian Airports", *Journal of the Transportation Research Forum*, 1988

"Duopoly in Canada's Airline Industry: Consequences and Policy Issues", *Canadian Public Policy*, Vol. 14 (1), March, 1988, 15-31

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"Renewable and Non-Renewable Resource Demand in Canadian Manufacturing Industries" *Resources and Energy*, (1983) Vol. 7, 217-239. (with McMillan and Taher)

"Economic Value of Salmon Angling: Estimates of willingness to pay from Hedonic Price Function's" *Canadian Journal of Regional Science*, Vol. 12, Fall, 1984, 181-195. (with R. McGaw)

"A Study of the Cost Structure of the Canadian Inter-city Motor Coach Industry" *Canadian Journal of Economics*, Vol. 17, No. 3, May 1984, pp. 368-397. (with T. Oum)

"The Structure of Inter-City Travel Demands in Canada: Theory, Tests and Empirical Results" *Transportation Research*, (1981)17, No. 3, 175-191. (with T. Oum)

"An Extension of the Hedonic Approach for Estimating the Value of Quiet", *Land Economics*, 56, 3, 1980, 315-28. (with M. McMillan and B. Reid)

"Bill C-20: An Evaluation from the Perspective of Current Transportation Policy and Regulatory Performance", *Canadian Public Policy*, Winter, 1980, pp. 47-63. (with Chambers et al.)

"Assumed vs. Estimated Functional Form in Disaggregate Mode Choice Models", *Regional Science and Urban Economics*, (1980) vol. 9, 185-197

"Parking Location and Transit Demand: The Case of Endogenous Attributes in Disaggregate Mode Choice Models", (with R. B. Westin), *Journal of Econometrics*, No. 8 (1978), 75-101.

"Alternative Policy Variables to Influence Urban Transport Demands", *Canadian Journal of Economics*, (November 1977), pp. 686-695

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"A Study of Interfareclass Competition in Airline Markets" *Transportation Research Form Proceedings*, Vol. 21, (1981), 599-609. (with T. Oum)

"The Airline Cost Structure and Its Regulatory Policy Implications for Canada", *Transportation Research Forum Proceedings*, 1984, pp.649-652

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Achim Czerny, Peter Forsyth, David Gillen and Hans-Martin Niemeier (eds), *Airport Slots: International Experiences and Options for Reform*, Ashgate Publishing Hampshire UK 2008

Gillen, David, Parsons, Graham and Barry Prentice (2007) *Canada's Asia Pacific Gateway and Corridor Initiative: Policy Trade and Gateway Economics* (Volume 1), Centre for Transportation Studies, University of British Columbia ISBN 978-0-88865-538-7

Gillen, David, Parsons, Graham and Barry Prentice (2007) *Canada's Asia Pacific Gateway and Corridor Initiative: Gateway Logistics, Ports and Environmental Challenges* (Volume 2), Centre for Transportation Studies, University of British Columbia ISBN 978-0-88865-540-0

Canada's Asia Pacific Gateway and Corridor Initiative: Volume 1 Policy Trade and Gateway Economics (Centre for Transportation Studies, University of British Columbia 2007 (with Barry Prentice, Graham Parsons and Peter Wallis)

Airport Slots: International Experiences and Options for Reform, Ashgate Publishers, London UK (2007) with Achim Czerny, Peter Forsyth, Hans- Martin Niemeier (eds),

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Forsyth, P., Gillen, D. Mayer, O. and HM Niemeier (eds), *Competition versus Predation in Aviation Markets*, Ashgate Publishers, London 2005

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Gillen, D., *Proceedings of the Hamburg Aviation Conference, 2000*, Special Co-Editor, *Journal of Air Transport Management*, Vol. 7, No. 1, January, 2001.

Gillen, D., *Airport Economics and Performance Measurement*, Special Co-Editor of *Transportation Research E*, January 1998.

Gillen, D., *Competition and Regulation: Implications of Globalization for Malaysia and Thailand*, JDI, Queen's University Press, 1997.

Transportation Infrastructure Investment, Productivity and Economic Growth, Special Editor of *Logistics & Transportation Review* (March, 1996)

Canadian Transportation Policy, John Deutsch Institute for Public Policy, Queen's University, 1991 (editor)

Airport Externalities and Noise Management Strategies in Canada, 1990 Transportation Development Centre, Montreal (with T. Levesque and T. Smith)

The Management of Airport Noise, Transportation Development Centre, 1990 Transport Canada Montreal (with T. Levesque)

Identifying and Measuring the Impact of Government Ownership and Regulation on Airline Performance, Economic Council of Canada, 1986 (with T. Oum and M. Tretheway)

Canadian Broadcasting: Market Structure and Economic Performance Institute for Research on Public Policy, Montreal, 1979 (with S. McFadyen and C. Hoskins)

Airline Cost and Performance: Implications for Public and Industry Policy, Vancouver, Centre for Transportation Studies, University of British Columbia, 1986 (with T. Oum and M. Tretheway)

Canadian Airline Deregulation and Privatization: Assessing Effects and Prospects, Vancouver, Centre for Transportation Studies, University of British Columbia, 1985 (with T. Oum and M. Tretheway)

A Methodology for Evaluating Alternative Regional Transportation Mixes, Alberta Ministry of Transportation (with

M. McMillan and W. Phillips)

Chapters in Books

David Gillen and Alicija Gados (2009), Airlines within airlines: Assessing the vulnerabilities of mixing business models, in *Research In Transportation Economics* (forthcoming 2009)

David Gillen (2009), Airport Governance and Regulation: the Evolution over Three Decades of Aviation System Reform, in Robin Lindsey, *The Regulation of Transportation Services* (forthcoming Elsevier)

David Gillen and Hans Niemeier, *European Union: Evolution of Privatization, Regulation and Slot Reform*, in Winston and Gines de Ruse (eds) *Aviation Infrastructure Performance: A Study in Comparative Political Economy*, Brookings Institution, Washington DC March 2008

David Gillen, *Using ITS to Manage Demand through Road Pricing*, in Steven Ison and Tom Rye (eds (2008)). *The Implementation and Effectiveness of Travel Demand Management Measures*, Ashgate Press, London UK) pp. 49-75

David Gillen, *Airport Slots: A Primer* in Achim Czerny, Peter Forsyth, David Gillen and Hans-Martin Niemeier (eds), *Airport Slots: International Experiences and Options for Reform*, Ashgate Publishing Hampshire UK 2008

David Gillen and Despina Tudor, *How the Market Values Airport Slots: Evidence from Stock Market Data*, in Achim Czerny, Peter Forsyth, David Gillen and Hans-Martin Niemeier (eds), *Airport Slots: International Experiences and Options for Reform*, Ashgate Publishing Hampshire UK 2008

David Gillen and William Morrison, *Slots and Competition Policy: Theory and International Practice*, in Achim Czerny, Peter Forsyth, David Gillen and Hans-Martin Niemeier (eds), *Airport Slots: International Experiences and Options for Reform*, Ashgate Publishing Hampshire UK 2008

D. W. Gillen and W. G. Morrison "The Airline-Airport Relationship: The Airport System as a Public Franchise." *Advances in Airline Economics*, Elsevier, (2007)

David Gillen and William Morrison (2007), Air Travel Demand Elasticities: Concepts, Issues and Measurement in Darin Lee (ed) *Advances in Airline Economics, Volume 2, The Economics of Airline Institutions, Operations and Marketing*, Editor. Amsterdam: Elsevier, 2007.

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Gillen, David, The Evolution of Networks with Changes in Industry Structure and Strategy: Connectivity, Hub-and-Spoke and Alliances (forthcoming in M. Takebayashi (ed) *Kobe Symposium on Networks in Air and Sea Transportation*)

Gillen, David and David Levinson, Freeway Service Patrols: A State Preference Analysis of Insurance Values, in D. Gillen and D. Levinson, Assessing the Benefits and Costs of ITS: Making the Business Case for ITS Investments, Kluwer Publishers, 2004

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Gillen, D., "Deregulation and Privatization: Their Role in Advancing Trade in Services under the WTO" in *Competition and Regulation: Implications of Globalization for Malaysia and Thailand*, F. Flatters and D. Gillen (Eds.), JDI, Queen's University Press, pp. 75-129, 1997.

Gillen, D., "Efficient Use and Provision of Transportation Infrastructure with Imperfect Pricing: Second Best Rules" in *The Full Social Costs and Benefits of Transportation*, D. Greene, D.W. Jones and M. Delucchi (Eds.), Springer Verlag, pp. 193-219, 1997.

Gillen, D., "Airports and Seaports in Canada: An Assessment of Privatization of Ownership & Operation" in *Essays on Canadian Surface Transportation*, F. Palda (Ed.) , Fraser Institute, pp. 1-52, 1994.

Gillen, D., "Alternative Approaches to Urban Transport Pricing and their Linkage to Investment" in *Urban Mobility: From Paralysis to Pricing*, M. Lee-Gossilan and C. Roux (Eds.), (Centre Jacques Cartier, Lyon, France), pp. 231-243, 1994.

"Airports and Seaports in Canada: An Assessment of Privatization of Ownership & Operation" in F. Palda (ed) *Essays on Canadian Surface Transportation*, Fraser Institute (1994), pp.1-52

"Alternative Approaches to Urban Transport Pricing and their Linkage to Investment" in M. Lee-Gossilan and Charles Roux (ed), *Urban Mobility: From Paralysis to Pricing* (Centre Jacques Cartier, Lyon, France) 1994 ISBN 2-950-4957-7-x pp. 231-243

"Free Trade in Airline Services: Assessing the Proposals to Liberalize the Canada-U.S. Bilateral" in *Methods for Understanding Travel Behavior in the 1990's*, International Conference on Travel Behavior, Quebec City 1991 (

with Mark Hansen and Robson Ramos)

"Airport Pricing and Capacity Expansion: Economic Evaluation of Alternatives" *Transportation Review* Spring 1990 (with T. Oum and M. Tretheway)

"Bill C-3: The New Air Canada Act", Chapter 16, in Reschenthaler, G. B. and B. Roberts (ed.), *Perspective in Canadian Airline Regulation*, Institute for Research on Public Policy, (1979), 193-199.

Other Publications

"Challenges in Measuring the External Costs of Transport", Proceedings of the Canadian Transportation Research Forum (Saskatoon, University of Saskatoon Printing services) with A. Boardman, W. G. Waters and a. Zhang

Gillen, D., Golaszewski, R. "Air Cargo Strategies for Airports and Communities", *Airport World*, forthcoming.

Gillen, D., and W.G. Morrison, "Perils in the Process: The Issues Tables Approach that Canada Has Been Using to Set Greenhouse Gas Emissions Reduction Policy Has an Odd Set of Biases," *Alternative Journal*, March 2000.

"Investing in Infrastructure: Will it really Yield a More Competitive Nation", *ITS Review*, Vol. 16, No. 3, 1993 (May) 2-4

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"Canadian Airline Strategies Under a U.S.-Canadian Open Skies Policy" *Journal of Airline Management*, 1988

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Working Papers

Climate Change Policies and Their Impacts on Airline Fares, Profitability and Emissions (with Peter Forsyth)

The New Price Discrimination and Pricing in Airline Markets: Implications for Competition and Antitrust (paper co-authored with Tim Hazledine) completed May 2007

North American Gateway and Corridor Initiatives in a Changing World (co-authored with Dr. Graham Parsons, OWEC, Dr. Barry E. Prentice, UMTI), completed April 2007

How the Border Behaves as a Tax: Application of the Marginal Effective Tax Rates (METR) Methodology to Issues of Increased Border Security, David Gillen and Alicja Gados, CTS Working Paper 2007-1 (April 2007)

An Empirical Investigation of the Pacific Crossing, David Gillen and Alicja Gados, CTS Working Paper 2007-2 (May 2007)

Assessing the Value of TMCs and Methods to Evaluate the Long Term Effects of ITS: Measuring Congestion, Productivity and Benefit Flow from Implementation, David Gillen, CTS Working Paper 2007-3 July 2007
The Regulation of Airports, David Gillen, CTS Working Paper 2007-4 (September 2007)

Comparative Political Economy of Airport Infrastructure in the European Union: Evolution of Privatization, Regulation and Slot Reform, David Gillen and Hans-Martin Niemeier, CTS Working Paper 2007-5 (October 2007)

Climate Change Policies and Airlines: Impacts on Fares, Profits and Emissions, (co-authored with Peter Forsyth) August 2007

The Political Economy of European Airport Reform (co-authored with Hans Niemeier, Peter Forsyth) September 2007

Foreign Ownership Restrictions in Canada' Aviation Industry: A Review and Assessment (February 2008)

Airport Economics, Policy and Management: The European Union 2006 (with Hans Niemeier)

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Changing Nature of Supply Chains and Production Networks in Asia: The Success of Singapore (2007)

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The New Price Discrimination and Pricing in Airline Markets: Implications for Competition and Antitrust 2006 (with Tim Hazledine)

Assessing the Value of TMCs and Methods to Evaluate the Long Term Effects of ITS (2006)

When Theory meets Reality, Putting the 'Full' in the Full Costs of Transportation 2007 (with Bill Waters, John Lawson)

Factors Affecting the Demand for Gasoline Sales in the GVRD: A Macro Approach 2006

How the Market Values Airport Slots: Evidence from Stock Prices 2006 (with Despina Tudor)

The Airline-Airport Relationship: The Airport System as a Public Franchise 2006 (with William Morrison)

Airline Business Models and Networks: Regulation, Competition and Evolution in Aviation Markets (2006)

Public and Private Benefits in Intelligent Transportation Systems/ Commercial Vehicle Operations: Electronic Clearance, Security and Supply Chain Management 2007 (with Alicja Gados)

ITS Contributions to Welfare Economics 2007 (with Alicja Gados)

Applying Public-Private Partnerships to ITS projects *Risk, Uncertainty and Optimal Contract* 2007 (with Alicja Gados)

The Economics of Security and ITS *Security Characteristics of ITS Deployments* 2007 (with Alicja Gados)

The market for slot allocation and the problem of delays *Support for demand management at border crossings* 2007 (with Alicja Gados)

How the Border Behaves as a Tax *Application of the Marginal Effective Tax Rates (METR) methodology to issues of increased border security* 2007 (with Alicja Gados)

How the Market Values Airport Slots: Evidence from Stock Prices 2007 (with William Morrison)

Optimal Use of Scarce Airport Capacity (2007)

Demand Management: Options for Ensuring the Efficient Use of Scarce Airport Capacity (2007)

North American Gateway and Corridor Initiatives in a Changing World 2007 (with Graham Parsons and Barry Prentice)

Air Travel demand Elasticities: Concepts, Issues and Measurement 2007 (with William Morrison and Christopher Stewart)

Assessing the Potential Success of the Low Cost Business Models in Asian Aviation Markets 2007 (with Natthida Taweelertkunthon)

Conference Presentations

The Evolution of the Airport Business Model: Regulation, Governance and Two-Sided Platforms Martin Kunz
Memorial Lecture, Hamburg Aviation Conference, Hamburg Germany February 2009

Financial and Environmental Sustainability of Transport: Are they Compatible?, presentation to Hamburg Aviation Conference, Hamburg Germany February 2009

Airport Governance and Regulation: Evolution over Three Decades of Aviation System Reform, presentation to Madrid Workshop on Transport Economics, October 2008

Dimensions of Value Added in gateway and Corridors, Presentation to CTRF Conference, Calgary October 2008

The New Price Discrimination and Pricing in Airline Markets: Implications for Competition and Antitrust (paper co-authored with Tim Hazledine) presented to Air Transportation Research Conference, Berkeley California June 22, 2008

Climate Change Policies and Airlines: Impacts on Fares, Profits and Emissions, (co-authored with Peter Forsyth) seminar University of Karlsruhe, November 27, 2008

Investigating the Effect of Governance Structure on Airport Efficiency (seminar to COE, Robson Square, Vancouver April 2, 2007)

Strategic Gateways and Trade Corridors: The Challenge of Logistics, presented to Freight Week Conference, Melbourne Australia September 19, 2008

Shipping Trends and Landside Responses: The Challenge of Logistics in and Through Gateways, presented to Freight Week Conference, Melbourne Australia September 22, 2008

Airnet Conference The Hague, April 11-13, 2007, Demand Management: Options for Ensuring the Efficient Use of Scarce Airport Capacity

North American Gateway and Corridor Initiatives in a Changing World (co-authored with Dr. Graham Parsons, OWEC, Dr. Barry E. Prentice, UMTI), presented at Canadian Transportation Research Forum Meetings, Ottawa October 2007 (short listed as best conference paper)

Aviation Strategies and Emissions Trading: Taking Responsibility, EU Conference on Aviation and Climate Change, Brussels, May 24, 2007

Slots versus Prices: Options for the Optimal Use of Scarce Airport Capacity, INFORMS, Seattle, WA November 2007

The Political Economy of European Airport Reform (co-authored with Peter Forsyth), presented to German Aviation Research Society Meetings, Cologne Germany November 2007.

The New Price Discrimination and Pricing in Airline Markets: Implications for Competition and Antitrust (paper co-authored with Tim Hazledine) – presented at the ZEW Conference Mannheim Germany November 26, 2007

David Gillen, John Lawson, W.G. Waters II and Anming Zhang “Trying to Put the ‘Full’ in the Full Costs of Transportation” (paper presented to CTRF Quebec City May 1-3, 2006)

Assessing the Value of TMCs and Methods to Evaluate the Long Term Effects of ITS (Intelligent Transportation Systems - Hong Kong, 8th Asia-Pacific Intelligent Transport Systems Forum and Exhibition, 10-14 July 2006)

Banff Infrastructure Conference, “*When Theory meets Reality, Putting the ‘Full’ in the Full Costs of Transportation*” Banff Alberta, July 31-August 2, 2006

Madrid, *Airport Economics, Policy and Management: The European Union*, presentation to Rafael del Pino Foundation Conference on Airport Infrastructure, Madrid Sept 16-17, 2006

The New Price Discrimination and Pricing in Airline Markets: Implications for Competition and Antitrust, XIV Pan-American Conference of Traffic & Transportation Engineering, September 20th -23rd, 2006, Las Palmas de Gran Canaria, Canary Islands (Spain)

Evolutionary Business Models in Aviation: Tourism, Leisure Markets and Distribution Systems, presentation to Hamburg Aviation Conference, February 16, 2005

Network Evolution with Changes in Market Structure and Competition: Linking Network Structure And Business Models, presentation to GARS Conference, Bremen June 9, 2005

Runway Pricing: Lessons Learned In Canada and Elsewhere, presentation to CARS Workshop, Dublin Ireland June 14, 2005

Air Cargo Policy – Moving Forward and New Directions, presenting to Van Horne Conference and Minister of Transport Meeting, August 23, 2005

Keynote speech to Technical University of Berlin Conference on Public Private Partnerships, *The Economics of P3s and the Impact on Contract Design in Public-Private Infrastructure Concessions*, Berlin Germany October 7, 2005

Network Evolution with Changes in Market Structure and Competition: Linking Network Structure and Business Models, presentation to AirNeth Conference das Hag, Netherlands, October 28, 2005

Airport Regulation and Slot Auctions: Where have all the Rents Gone?, Workshop of Airport Regulation and Governance, CAA London, November 18, 2005

Slots 101: Valuing Slots in Airports in US and EU, paper to Workshops on Airport Regulation, Demand Management and Slot Allocation, November 9 and 10th, 2005, CTS, University of British Columbia

Demand Management: Assessing the Strengths and Weaknesses for Pricing versus Auctions, Workshops on Airport Regulation, Demand Management and Slot Allocation, November 9 and 10th, 2005, CTS, University of British Columbia

Assessing the Values of Airport Slots and Determining Efficient Markets, presentation to GARS Conference, Cologne Germany, November 21, 2005

“Challenges in Measuring the External Costs of Transport”, Proceedings of the Canadian Transportation Research Forum Hamilton, June 2005 with A. Boardman, W. G. Waters and a. Zhang

The Canadian Airline Industry: Airlines, Airports and Aviation (address to WESTAC-Van Horne Conference, Edmonton Nov 2004)

What can Airport Managers Learn from benchmarking and Performance Measurement? (paper presented to GARS Aviation Conference, Bremen Germany November 2004)

Noise Valuation and Implementation in assessing Airport Strategies and Investments, presentation to IEU Conference, Porto Portugal, September 2004

Benchmarking Pitfalls and Benefits from Implementation, presentation to Infrastructure Investment and Evaluation Conference, TUE University, Berlin March 2004

Assessing Airline Alliances, paper presented to GARS Workshop Bremen Germany January 2004

Measuring the Economic Efficiency Effects of Airline Alliances, paper presented to University Las Palmas, Canary Islands, December 16, 2003

Governance Structures and Economic Performance: Measuring Productivity and Efficiency at Airports, GARS Conference Leipzig, Germany, November 2003

Airline Strategies, Competition and Network Evolution in Aviation: How Important are Slots?
GARS Conference, Bremen Germany November 2003

Legacy Carriers and Upstarts: Regulation, Competition and Evolution of Networks in Aviation Markets,
Competition, Pricing and Natural Monopoly: Taking Stock Of Network Industries , May 23, 2003 University Of Toronto Faculty Of Law

Predatory Pricing in Networks: The Case of Airline Markets, Paper prepared for 2003 Competition Law Invitational Forum, Cambridge, Ontario April 30-May 1, 2003

"The Insurance Value of Freeway Service Patrols: A Stated Preference Analysis" TRB Conference, Washington January 2003.

"Airport Pricing, Financing and Policy: Report to National Transportation Act Review Committee," HWWA Workshop on Airport Policy, Hamburg, Germany, February 2002.

"Low Cost Airlines: Threats or Opportunities for Airports," 5th Annual Hamburg Aviation Conference, Hamburg, Germany, February 2002.

"International Transmission of Shocks in the Airline Industry," 5th Annual Hamburg Aviation Conference, Hamburg, Germany, February 2002.

"Benchmarking Airports: An Assessment of World Airports," 5th Annual Hamburg Aviation Conference, Hamburg, Germany, February 2002.

"The Economics of Noise Management Strategies and Policy," Dreams of Flight Conference, San Diego, CA, February, 2002.

"Predation is Alive and Well in Canada: Myth or Reality," German Aviation Research Seminar, Berlin, January 2002.

"Evolution of Aviation in Europe: The Emerging Role of Low Cost Carriers," German Aviation Research Seminar, Berlin, January 2002.

"A Survey of Methods to Estimate the Value of Quiet," EU Panel on Environmental Quality, Brussels, Belgium, December 2001.

"Measuring the Value of Transportation Infrastructure," Transportation Research Board Meeting, Washington, January 1999.

"Assessing the Benefits from ITS: Case Analysis of Electronic Toll Collection," Transportation Research Board Meeting, Washington, January 1999.

"The Full Costs of Air Transportation," Transportation Research Board Meeting, Washington, January 1999.

"Freeway Expansion and Land Development: Empirical Analysis of a Transportation Corridor," Transportation Research Board Meetings, Washington, January 1998 (with M. Hanson).

"Trip Pricing Experiments: Design and Implementation Issues for Demonstration Projects," Transportation Research Board Meetings, Washington, January 1998.

"Auctions Lotteries and Optional Tariffs: Their Use in the Context of Sophisticated Market Pricing Strategies for Auto Travel," Transportation Research Board Meetings, Washington, January 1998 (with W. Morrison).

"Non-Parametric Measures of Efficiency at US Airports," ATRG Conference, Dublin, July 1998 (with A. Lall).

"A Model for Measuring Economic Effects of Bilateral Air Transport Liberalization" International Colloquium on Air Transportation, Toulouse, France, Nov 17-19, 1998.

"The Full Cost of Intercity Highway Transportation," Transportation Research Board Meetings, Washington, January 1998 (with D. Levinson).

"Evaluating Air Liberalization Agreements: An Integration of Demand Analysis and Trade Theory," International Air Transportation Conference, Seoul Korea, December 1997 (with R. Harris, and T. Oum).

"Evaluating Economic Benefits of the Transportation System," Transportation and the Economy, Public & Research Symposium Series, Public Policy Program, UCLA, Lake Arrowhead, California, December 7-9, 1997.

"The Effects of Open Skies Bilateral Agreements: A Counterfactual Analysis of Canada's Bilateral Agreements," ATRG Conference, Vancouver, June 1997 (with R. Harris, and T. Oum).

"Airport Performance Measurement: An Application of Data Envelope Analysis," ATRG Conference, Vancouver, June 1997.

"Implications of High Speed Rail Competition on Short Haul Airline Markets," ATRG Conference, Vancouver, June 1997.

"Airport Performance Measurement: Data Envelope Analysis and Frontier Production Functions," ATRG Conference, Vancouver, June 1997.

"Evaluating Economic Benefits of the Transportation System," Transportation and the Economy, Public & Research Symposium Series, Public Policy Program, UCLA, Lake Arrowhead, CA, December 7-9, 1997.

"Implications of High Speed Rail Competition on Short Haul Airline Markets," ATRG Conference, Vancouver, June 1997.

"Airport Performance Measures and their Linkage to Effective Management Strategy in Assessing Public and Private Ownership," Transportation Research Board Annual Meeting, Washington DC, January 1997.

"Measuring Productivity and Efficiency in a Multi-jurisdictional Setting: Measuring the Performance of Transportation," Conference on Performance Measurement and Public Sector Reform, Institute for Public Administration of Canada, Toronto, April 3, 1997.

"Intercontinental Demand: Assessing the Demand impacts of Liberalizing International Aviation," Conference on International Aviation, Montreal, April 24, 1997 (with R. Harris, and T. Oum).

"Investigations of Neglected Aspects of the Benefits of Transportation Investment," International Road Federation Conference, Toronto, June 1997.

"Airport Performance Measurement: Data Envelope Analysis and Frontier Production Functions," ATRG Conference, Vancouver, June 1997.

"Airport Performance Measurement: An Application of Data Envelope Analysis," ATRG Conference, Vancouver, June 1997.

"The Effects of Open Skies Bilateral Agreements: A Counterfactual Analysis of Canada's Bilateral Agreements,"

ATRG Conference, Vancouver, June 1997 (with R. Harris, and T. Oum).

"Measuring the Performance of Airports: Alternative Measures of Cost Efficiency and Customer Service" TRB Meetings, Washington, January 1996.

"Issues of Airports in Economic Development" TRB Meetings, Washington, January 1996.

"Measuring the Performance and productivity of transportation Infrastructure: An Application of DEA" AEA Meetings, San Francisco, January 1996.

"An Assessment of BTS: An Overview of TSAR (Transportation Statistics Annual Reports)," BTS Conference, Washington, D.C. May 18, 1996.

"Measuring the Benefits and Costs of Alternative Noise Management Strategies" TRB Meetings, Washington, January 1996.

"Measuring the Performance and productivity of transportation Infrastructure: An Application of DEA" (AEA Meetings San Francisco Jan 1996)

"Benchmarking and Quality Management: New Management Techniques for Modern Airports" paper presented to the Airport development Conference, Amsterdam November 1995

"Efficient Use and Provision of Transportation Infrastructure With Imperfect Pricing" paper presented to the conference on The Costs and Benefits of Transportation Infrastructure, university of California Irvine July 1995

"Assessing the Role of Transportation Infrastructure in Economic Growth" TRB Meetings Washington January 1995

"Alternative Approaches to the Evaluation of Airport Projects" panel presentation to FAA Conference, Washington, October 1994

"The Variability in Demand Elasticity Estimates in Assessing the Net Impact on Safety of the Introduction of Mandatory Child Restraint Seats on Aircraft" panel presentation to FAA Conference Washington October 1994

"Transportation Infrastructure Investment and Economic Growth", paper presented to the "The Role of Infrastructure in Economic Development: A Policy Conference" Sept, 1994 (Chicago)

"Measuring Management Performance for Deregulated Commercialized And Privatized Public Infrastructure" paper presented to the Center for Law & Economic Analysis Conference, Sept, 1994 (Toronto)

"The Market and Aviation Infrastructure: Pricing, Productivity and Privatization", paper presented at the 8th Annual Workshop on Aviation Infrastructure, National Academy of Sciences, Washington, DC September, 1993

"Assessing the Role of Transportation Infrastructure in Effecting Economic Growth and Productivity", presented to the Conference on Public Investment and Economic Growth, Investment Canada, Ottawa, June 1993

"Peak Pricing Strategies In Transportation, Utilities And Telecommunications: What Lessons Do They Offer For Roadway Pricing" paper presented to the Congestion Pricing Symposium, Washington, DC June 24-25, 1993

"Airport Management Economics" presentation to Airport Systems and Design Conference, May 3-6, UC-Berkeley

"Air Travel Demand Forecasting" presentation to Airport Systems and Design Conference, May 3-6, UC-Berkeley

"Transportation Investment and Economic Growth" paper presented at Industrial Liaison program, UC-Berkeley March 11, 1993

"Current research in Intermodal Transport, Air Quality and Infrastructure" Industrial Liaison program, UC-Berkeley March 11, 1993

"General Aviation Noise: Measuring the Impact and Developing Management Strategies", paper delivered at 8th Annual Airport Managers Short Course (Monterey, CA Jan 1993)

"Airline Seat Capacity Adjustment and the Effects on Airport Capacity Management" paper delivered to the 4th World Conference on Transportation Research, Lyon, France July 1992

"Can Economic Measures Mitigate the Demand/Capacity Imbalance"? presented at Industrial Liaison Program, 14th Annual Conference March 1992, University of California-Berkeley

"The Economics of Aircraft Noise" presented at Industrial Liaison Program, 14th Annual Conference March 1992, University of California-Berkeley

"Alternative Approaches to Urban Transport Pricing and their Linkage to Investment" presented at the International Conference on Issues in Urban Transportation Pricing, Lyon, France December 1991

"Pricing, Investment and Financing of Transportation Infrastructure", Conference on Pricing and Investment in Transportation, Ottawa Sept 26-27, 1991

"Free Trade in Airline Services: Assessing the Canada-U.S. Air Transport Bilateral" paper presented to Transportation Research Forum, Long Beach, October 1990. Also presented at the International Association for Travel Behavior Meetings, Quebec City, May 1991

"Measuring the Effectiveness of New Technology Through a Productivity Framework" invited paper presented to Productivity Assessment and Technology Adoption Seminar, University of Southern California, April 1989

"Airport Pricing, Capacity Investment and Ownership: Focus on Economic Efficiency" Invited paper presented to the 5th World Conference on Transportation Research, Yokohama Japan, July 1989

"Productivity Measurement and New Technology: Efficiency vs Effectiveness", presented to the TIMS/ORSA Meetings, Denver, 1988

Airport Pricing Policies: An Application to Canadian Airports", Transportation Research Forum Proceedings, Toronto 1988

"Entry Barriers and Anti-Competitive Behavior in a Deregulated Canadian Airline Market", Transportation Research Forum Proceedings, Vancouver, 1986

Identifying and Measuring the Impact of Government Ownership and Regulation on Airline Performance", Conference sponsored by the Economic Council of Canada, Toronto, 1983

"Identifying and Measuring the Costs of Regulation on Transportation Industries", Canadian Transportation Research Forum, Jasper, Alberta, 1983

"Cost Structure of the Canadian Inter-city Bus Industry", invited paper: Advances in Supply Side Modeling in Transportation, Montreal, Oct. 1981.

"Cost Structure of the Canadian Airline Industry", Econometric Society Conference, San Francisco, Dec. 1983

"The Hedonic Technique: A Critique and Assessment", Acid Rain Evaluation Seminar, Ottawa, 1984

"Economic Value of Salmon Angling: Estimates of Willingness to Pay from Hedonic Functions" Canadian Regional Science Assoc. Meetings, Vancouver 1982

"Costs and Regulations in the Canadian Airline Industry" Canadian Economics Association Meetings, June, 1982, Vancouver

A Study of Interfareclass Competition in Airline Markets" presented at North American Meetings of the Econometric Society, Denver, Colorado, 1981

"Inter-city Travel Demands in Canada: Theory, Tests, and Empirical Results" presented at ORSC Meetings, Quebec City and World Econometric Congress, France, August 1980

"A Simultaneous Model of Household Residential Location and Transportation Choice", (with R. Westin) a paper presented at the NSF-NBER Conference on Decision Rules under Uncertainty, Carnegie-Mellon University, March, 1978. Also presented at the Conference of Theoretical Urban Economics, Queen's University, June 1978

"Alternative Rent Gradients in Urban Location Models", presented at the Canadian Economic Association Meetings, Fredericton, June, 1977

"Location Decisions and Transportation Demand", (with R. Westin), paper presented at Canadian Economic Association Meetings, Quebec City, June, 1976. Also presented at Mathematical Social Science Board Workshop on the Theory and Measurement of Economic Choice Behavior and NSF-NBER Conference on Decision Rules and Uncertainty, joint session, University of California, Berkeley, June 19-22, 1976

"Parking Prices and Parking Restrictions: The Effects for Urban Mode Choice and Congestion", Meetings of the Transportation Research Forum, Toronto, November 1975. (Published Proceedings).

Invited Seminars

"How can the idea of Incentives, so Commonly Practiced in the Private Sector be Applied to Public Sector Needs," Invited keynote paper, Vickrey Colloquium, Columbia University, April 1997.

Universities: UBC, Calgary, Saskatchewan, Manitoba, Lakehead, Western Ontario, York, Toronto, Queens, Montreal, New Brunswick, Cornell, MIT, Carnegie Mellon, Embry Riddle, Berkeley, UC Irvine, Portland State, University of Hamburg, Kiel Institute

Other and Research Reports

Zhang, A., A.E.Boardman, D.Gillen and W.G.Waters II (2005) "Towards estimating the social and environmental costs of transportation in Canada," a report for Transport Canada, UBC Centre for Transportation Studies, revised March 2005

An Economic Assessment of Strategies to Extend the Lifespan of Tires (Report to Integrated Waste Management Board, Sacramento, CA, 2003)

"Impacts of California's Graduated Licensing Law of 1998 – report submitted to California State Automobile Association (CSAA) June 2002 – with Doug Cooper.

"Assessing the Value of TMCs and Methods to Evaluate the Long Term Effects of ITS Implementation", (PATH Research Report, University of California, 2002) David Gillen and Douglas Cooper.

"Caltrans TOPS Evaluation: Assessing the Net Benefits of ITS Multiple Applications", California PATH Working Paper UCB-ITS-PWP-2001-2, 2001.

"Measuring the Demand for Cargo Services in Canada" (Research Report to Greater Toronto Airport Authority, March 2001).

"Measuring the Effective Tax Rate and the Outcome of Reducing Fuel Taxes in Alberta" (Research Report to Van Horne Institute September 2000) with J. F. Wen.

"Measuring the Contribution of Changes in Teenage Licensing Laws on Accident Rates" (Research Report to California Automobile Association, December 2000) with D. Cooper.

"Contractual Schemes and Performance of BOT Toll-Road Projects" (Research Report Institute for Transportation Studies, University of California, Berkeley, September 2000) with Ming Chen Lin.

"Contract Design of Infrastructure Concessions", (Research Report Institute for Transportation Studies, University of California, Berkeley, September 2000) with Ming Chen Lin.

"Assessing the Economic Benefits from Implementing New Pavement Construction Methods", (Pavement Research Centre Institute for Transportation Studies, University of California, April 2000)

"Measuring the Aggregate Productivity Benefits from ITS Applications: The California Experience," Research Report to Institute for Transportation Studies, University of California, 2000.

"Assessing the Productivity benefits of Its in Public Transit: the Case for AVL," Research Report to Institute for Transportation Studies, University of California, 2000.

"Operations Manual for Decision Analysis in Assessing the Economic Value of ITS Projects: An Illustration of Benefit-Cost Method for the ETC System at Carquinez Bridge", Research Report Institute for Transportation Studies, University of California, Berkeley 1999.

"NAS Performance and Airline Cost: A Statistical Cost Estimation Approach," NEXTOR, Institute of Transportation

Studies, Research report RR- 99-09, NEXTOR, University of California, Berkeley, 1999.

"Assessing the Impact of Aviation on the Economy," Presentation at NEXTOR Meeting, FAA, Washington, DC, December 1998.

"The Economics of User Pay," Presentation at TAC Conference, Regina, September 1998.

"Decision Analysis Methods for Evaluating Intelligent Transportation Systems," Research Report, Institute for Transportation Studies, University of California, Berkeley, 1998.

"Measuring the Impact of Delay on Airline Operating Costs & Efficiency," Presentation at NAS Conference Boeing, Seattle, June 1998.

"The Government of the Republic of Ghana, The Ministry of Roads and Transport," Final Report Aviation Sector Policy Study, The Gateway Secretariat, (prepared in conjunction Hickling, Lewis, Brod Inc. Washington, DC), May 1998.

"Auctions Lotteries and Optional Tariffs: Their Use in the Context of Sophisticated Market Pricing Strategies for Auto Travel," Research Report, FHWA Washington DC, June 1998.

"Operations Manual for Decision Analysis in Assessing the Economic Value of ITS Projects: An Illustration of Benefit-Cost Method for the ETC System at Carquinez Bridge," Research Report, Institute for Transportation Studies, University of California, Berkeley, 1998.

Gillen, D., "Trip Pricing Experiments: Design and Implementation Issues for Demonstration Projects," Research Report, FHWA, Washington DC, June 1998.

"Assessing the Efficiency of Noise Insulation Programs," Presentation at Noise Management Strategy Symposium, San Diego, February 1997.

"Performance Measurement to Maximize Customer Satisfaction in Airports," Presentation at Airports Council International Conference, Hong Kong, September 1996.

"The Social Costs of Intercity Transportation," Presentation at Conference on External Costs of Transportation, Montreal, Oct 2-6, 1996.

"Performance Measurement: The Keystone in Benchmarking and Total Quality Management: A Performance Measurement System for Pearson International Airport," Research Report to Transport Canada, (102 pages), February 1996.

"Air Travel Demand Forecasting," Presentation to Airport Systems and Design Conference, UC-Berkeley, May 3-6, 1996.

"Airport Management Economics," Presentation to Airport Systems and Design Conference, UC-Berkeley, May 3-6, 1996.

"Performance Measurement and Benchmarking Terminal Retail Plans," Presentation to the Airports Conference, London, UK, February 1996.

"The Evolution of Transportation Policy, Instruments and Institutional Structures in Developed Economies: Their Contribution to Approaching Transportation Planning in Thailand," Research Report to Thailand Development Research Institute, Bangkok, June 1996.

"The Full Cost of Transportation: An Intermodal Comparison in California," ITS-RR-96-3, Institute of Transportation Studies, University of California, Berkeley, January 1996 (with D. Levinson, J. Mileau, and A. Kanafani).

"Performance Measurement: The Keystone in Benchmarking and Total Quality Management: A Performance Measurement System for Pearson International Airport" (Research Report to Transport Canada, February 1996 (102 pages)

Measuring Airport Efficiency and Effectiveness in the California Aviation System (Research Report ,UCB-ITS-RR-94-17, (D. Gillen, D. Cooper)

Measuring Management Performance for Deregulated, Commercialized and Privatized Public Infrastructure (1994) (mimeo, Institute of Transportation Studies, University of California, Berkeley, with H. Mannhardt)

"Measuring the Impact of Changes in Aviation Technology on California Economic Development", (1994) (Draft Report, Institute of Transportation Studies, University of California, Berkeley, with M. Hansen and T. Sodderberg)

"Measuring the Impact of Variations in the Quality of Highway Capital on Economic Growth and Productivity" (1994) (Draft Report, Institute of Transportation Studies, University of California, Berkeley, with M. Hansen and T. Sodderberg)

Airport Noise Management: Assessing The Costs And Benefits Of Noise Management Strategies, Report submitted to Environmental and Safety Branch, Transport Canada, March 1994 (with T. Levesque)

The Development of an Accident Database to Structure Land Use Regulations in Airport Runway Approach Zones, Research report UCB-ITS-RR-93-13 (July) 45 pages

The Contribution Of Air Transportation Technology To Aggregate And Sectoral Efficiency In California: Alternative Assessment Methodologies, Research report UCB-ITS-RR-93-7 (July) 52 pages

The Air Quality Impacts of Urban Highway Capacity Expansion: Traffic Generation and Land Use Impacts, Research report UCB-ITS-RR-93-5 (April) 188 pages

California Civil Tiltrotor and Tiltwing Demonstration Program: Institutional, Environmental and Economic Factors (Phase One Final Report) UCB-ITS-RR-93-01 (with W. Youssef, A. Kanafani)

Environmental Issues and Airport Activity: An Assessment of Tiltrotor Technology, Research Report UCB-ITS-RR-92-5

Transportation Infrastructure Policy: Pricing, Investment and Cost Recovery, Research Report RES 92-04, Royal Commission on National Passenger Transportation, Ottawa May, 1992 95 pages.

Free Trade in Airline Services: Assessing the Canada-U.S. Air Transport Bilateral, Research Report RR-90-4, Institute for Transportation Studies, University of California, Berkeley

Airport Externalities and Noise Management Strategies in Canada, Report to Transportation Development Centre, Montreal July 1990 (with T. Levesque and T. Smith)

The Management of Airport Noise, Final Report to Transportation Development Centre July 1990 229 pages (with T. Levesque)

"Development of a Predictive Model of Airline Market Entry or Exit", Report to Transport Canada, 1989

Using Conjoint Methodology to Evaluate the Impact of Noise and Develop Noise Management Strategies, Technical Report 89-04 to Transportation Development Centre, Montreal 1989 (with T.J. Levesque)

Assessing the Impact of Aircraft Noise Using the Hedonic Methodology: A Case Study of Toronto International Airport, Technical Report 89-03 to Transportation Development Centre, Montreal 1989 (with T.J. Levesque)

Alternative Methodologies to Assess and Evaluate the Impact of Aircraft Noise, Technical Report 89-02 to Transportation Development Centre, Montreal 1989 (with T.J. Levesque)

Noise Management Strategies: A Survey, Technical Report 89-01 to Transportation Development Centre, Montreal 1989 (with T.J. Levesque)

Measuring the Effectiveness of New Technology Through a Productivity Framework, 3 vol. study undertaken on behalf of NRC, Ottawa with , B. Fournier, H. Noori and G. McDougall (1989)

A Study of peak Period Pricing with an Application to Toronto International Airport, report to Airport Authority group of Transport Canada, 1988

Merger Activity in Canada's Airline Industry and the Prospects for Competition, study to Consumers Association of Canada 1987, 83 pages with W. T. Stanbury and M. W. Tretheway

Pricing Policies for Canadian Airports with an Emphasis on Airfield Operations, study submitted to Transport Canada, 170 pages with T. Oum and M. W. Tretheway

Predatory Behavior in a Deregulated Canadian Airline Industry, study to Consumer and Corporate Affairs Canada, 1986, 85 pages with T. Oum and M. W. Tretheway

The Impact of Generic Substitution on Research and Development and Innovation in the Canadian Pharmaceutical Industry, Research Report to the Ontario Economic Council, 1986. (with F. Tapon)

The Impact of Government Regulation and Ownership on Airline Performance, study submitted to Consumer and Corporate Affairs Canada and Economic Council of Canada, 1986, 210 pages with T. Oum and M. W. Tretheway

Canadian Airline Deregulation, 3 volume study to Treasury Board of Canada, 1985 with T. Oum and M. W. Tretheway

The Structure of the Canadian Pharmaceutical Industry, Research Report to the Eastman Royal Commission of Inquiry into the Impact of Patent Legislation on the Canadian Pharmaceutical Industry, 1985. (with T.J. Levesque)

Railways in Western Canada: Bottlenecks, Capacity Expansion and Financing, report to Economic Council of Canada, 1983 with T. Oum

Focus of the Petroleum Industry Inquiry, Report to Restricted Trade Practices Commission.(1982)

Demand for Groundfish in U.S. Markets, report to Federal Fisheries and Oceans, 1981 with T. Oum

Costs and Benefits of the Canadian Patent System, Research Report to Bureau of Intellectual Property, Federal Department of Consumer and Corporate Affairs, June, 1980, 150 pages (with A. W. Jenkins, and W. C. Riddell)

The Impact of Provincial-Municipal Transportation Subsidies, Research Report to Alberta Transportation, June, 1980 (with M. McMillan and A. Chaudry).

A Flexible Cost Function for the Canadian Intercity Motor Coach Industry, Research Report to Transport Canada, March, 1980, 235 pages

The Role of Economics in Transportation Planning (2 Vols.) with M. McMillan and W. Phillips, submitted to Alberta Transportation, Department of Strategic Planning, 1979

The National Transportation Act, the Canadian Transport Commission and the Proposed Changes in Bill C-33, a Research Report to the Department of Transportation, Government of Alberta, June, 1978, (with T. Chambers, J. Dunn and G. Tyndall)

A Study of Ownership in the Broadcasting Industry, a Research Report to the Department of Communication, Ottawa, 1978 (with S. McFadyen and C. Hoskins).

A Cost-Benefit Analysis of the Proposed Grande Cache - Grande Prairie Highway, a Research Report to the Strategic Planning Group, Department of Transportation, Government of Alberta, September, 1977

The Economic Issues of Trucking Regulation in Ontario, a Research Report prepared for the Joint Program in Transportation, University of Toronto/York University, for the Select Committee on the Highway Transport of Goods, 1976

The Effects of Federal Government Parking Policy on Model Choice Among Federal Government Employees in Ottawa, Research Report to Transport Development Agency, Federal Ministry of Transport, Montreal, 1975

The Effects of Alternative Parking Policies on Urban Mode Choice and Congestion Levels, Research Report to Joint Program in Transportation, University of Toronto and York University, Toronto, 54 pages

An Economic Analysis of Parking and the Influence of Parking on Urban Transport Demands, Research Report to North Atlantic Treaty Organization, Brussels, Belgium, September 1974, 200 pages