

6.0 Conclusions

6.1 The IATA passenger agency programme provides a valuable industry facilitation service

- 6.1.1 The IATA passenger agency program in Australia plays a significant role in reducing the costs of both airlines and agencies. With 53 carriers serving Australia and 1,509 IATA agencies operating 2,305 locations, the cost of authorisation and operation of independent agencies relationships would be prohibitive if carriers were required to transact directly with individual agents. (Up to 79,977 separate investigations and authorisations would be required.) The IATA program is of significant benefit in reducing costs.
- 6.1.2 As well, the IATA program is transparent and is not dominated by the major carriers serving the Australian market.
- 6.1.3 Passenger agencies in Australia have a consultative role in the governance of the IATA Australian passenger agency programme.
- 6.1.4 The programme provides air travellers with competitive choices of agencies and air carrier services.

6.2 The IATA passenger agency programme has been modified to be more competitive

- 6.2.1 The IATA passenger agency program was based on a fundamental cost reducing industry facilitation role. However, historically, governments around the world both tolerated and required the program to have restrictive practices, as part of their policies to protect government owned national air carriers.
- 6.2.2 As governments have privatised and deregulated their airlines, there is no longer the same need for these restrictive practices.
- 6.2.3 IATA has already responded to this major industry development since the previous authorisation in 1984. Australia did not deregulate, privatise and liberalise its airline industry until roughly 1990. The IATA agency programme was modified in synch with the new pro-competitive government policy for the airline industry.
- 6.2.4 The IATA agency program in Australia no longer includes agreed commission levels. Commissions are now negotiated directly by carriers and agencies.
- 6.2.5 As well, the program is no longer vertically integrated, as agencies may participate in a domestic only program if that better suits their needs.



6.3 There is no alternative to the IATA agency program which would provide greater benefits

- 6.3.1 As outlined in Section 5, the removal of a multi-airline passenger agency authorisation programme would result in less competition for the passenger in terms of choice of agency and choice of airline.
- 6.3.2 It would result in significantly higher costs for small agencies and thus consolidation in the agency industry should be expected as a consequence.
- 6.3.3 As well, it would favour the large global airline alliances vis a vis their independent airline competitors.
- 6.3.4 Finally, I note that the co-operative settlements program in the U.S. (ARC) is not a desirable governance structure. A co-operative in the relatively unconcentrated U.S. market may be acceptable while the same might not be the case for the Australian market with only two major air carriers.
- 6.3.5 It is my opinion that any non-IATA multi-airline passenger agency programme and settlements system would replicate costs of the IATA program while not providing any stronger benefits.



**Appendix A:
Curriculum Vitae of
Dr. Michael Tretheway**



CV here



CURRICULUM VITAE

MICHAEL WILLIAM TRETHERWAY

Last revised: 27 April 2000

BIOGRAPHICAL DATA

Date of Birth: May 22, 1952

Marital status: Married

Children: Two

Home Address:

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EDUCATION

- a) Undergraduate
1974: University of Wisconsin-Milwaukee, B.A. (Economics)
- b) Graduate
1976: University of Wisconsin-Milwaukee, M.A. (Economics)
1978: University of Wisconsin-Madison, M.S. (Economics)
1981: University of Wisconsin-Madison, Ph.D. (Economics)
- c) Graduate - Thesis Titles
Ph.D.: "Productivity Growth and Returns to Scale in the U.S. Trunk Airline Industry, 1972-1978"
- d) Academic Awards and Honours
1974-75 Wisconsin-Milwaukee, University Fellowship.
1975-76 Wisconsin-Madison, University Fellowship.
Best Paper Award - Canadian Transportation Research Forum 1986
Teaching Excellence Award - University of British Columbia, Faculty of Commerce, 1987
A.T. Kearney Inc. Best Paper Award - Transportation Research Forum 1988
Honourable Mention: Best Paper Award - Canadian Transportation Research Forum, 1989
Arne Olsen Master Teacher Award - UBC Faculty of Commerce, 1990
UBC Faculty of Commerce Leadership Award, 1994
Honourary societies: Phi Beta Kappa
Phi Kappa Phi
Phi Eta Sigma

PROFESSIONAL EMPLOYMENT RECORD

- 1999-present Vice President and Vice Chairman, InterVistas Consulting Services, employee owned consulting firm, successor to Vancouver International Strategic Services
- 1997-1998 Vice President, Marketing Services, Vancouver International Strategic Services Ltd., subsidiary of the Vancouver International Airport Authority
- 1994-1996 Special Advisor to the President, Vancouver International Airport Authority.
- 1996-1998 Faculty Member, International Aviation Management Training Institute.
- 1997-present Adjunct Professor, Faculty of Commerce and Business Administration, University of British Columbia
- 1988-96 Associate Professor, Faculty of Commerce and Business Administration, University of British Columbia
- 1983-88: Assistant Professor, Faculty of Commerce and Business Administration, University of British Columbia
- 1981-83: Senior Economist, Laurits R. Christensen Associates, Inc., Research Associate, Department of Economics, University of Wisconsin
- 1978-81: Research Associate, Laurits R. Christensen Associates, Inc.,
- 1976-81: Research Assistant, Economics, University of Wisconsin
- 1973-75: Department of Learning Skills, University of Wisconsin-Milwaukee

FELLOWSHIPS

- 1994 Visiting Fellow, Australian Bureau of Transport and Communications Economics
- 1994-95 Vancouver International Airport Authority

PROFESSIONAL MEMBERSHIPS

American Economics Association
Canadian Economics Association
Midwest Economics Association
Western Economics Association
Econometric Society
Canadian Transportation Research Forum
Transportation Research Forum
Transportation and Public Utilities Group, AEA
Association for Public Policy Analysis and Management

PROFESSIONAL PAPERS**A. Books and Monographs**

1. *Canadian Airline Deregulation and Privatization: Assessing Effects and Prospects*, Centre for Transportation Studies, University of British Columbia, Vancouver, 1985. [with T.H. Oum and D.W. Gillen].
2. *Airline Cost and Performance: Implications for Public and Industry Policies*, Centre for Transportation Studies, University of British Columbia, Vancouver, 1986. [with T.H. Oum and D.W. Gillen].
3. *Deregulation and Airline Employment: Myth Versus Fact*. Centre for Transportation Studies, University of British Columbia, Vancouver, 1986, [with R.J. Andriulaites, D.L. Frank and T.H. Oum].
4. *The Growth and Performance of the Canadian Transcontinental Railways: 1956-1981*, Centre for Transportation Studies, University of British Columbia, Vancouver, 1987, [with K.D. Freeman, T.H. Oum and W.G. Waters II].
5. *Identifying and Measuring the Impact of Government Ownership and Regulation on Airline Performance*, report submitted to Economic Council of Canada and Consumer and Corporate Affairs Canada, March, 1985, revised October, 1986, published as a refereed technical report by the Economic Council of Canada 1987, [with T.H. Oum and D.W. Gillen].
6. *Airline Deregulation*, a special issue of the *Logistics and Transportation Review*, editor and author of introduction, Volume 22(4), December, 1986.
7. *Productivity in the Canadian Lumber Industry: An Inter-regional Comparison*, Forestry Canada, Information Report 0-X-411, Great Lakes Forestry Centre, 1990, [with A. Ghebremichael and D.G. Roberts].
8. *Airline Economics: Foundations for Strategy and Policy*, 1992, Centre for Transportation Studies, Vancouver.

B. Chapters in Books

1. "U.S. Trunk Air Carriers, 1972-1977: A Multilateral Comparison of Total Factor Productivity," in Thomas G. Cowing and Rodney E. Stevenson, editors, *Productivity Measurement in Regulated Industries*, Academic Press, 1981, pp. 47-76, [with D.W. Caves and L.R. Christensen].
2. "Economic Performance of U.S. and Canadian Railroads: The Significance of Ownership and the Regulatory Environment," in W.T. Stanbury and F. Thompson, editors, *Managing Public Enterprises*, Praeger, New York, 1982, pp. 123-151, [with D.W. Caves, L.R. Christensen and J.A. Swanson].
3. "An Assessment of the Efficiency Effects of U.S. Airline Deregulation via an International Comparison," in E.E. Bailey (ed.), *Public Regulation: New Perspectives on*

Institutions and Policies, MIT Press, Cambridge, 1987, pp. 285-320, [with D.W. Caves, L.R. Christensen, and R.J. Windle].

4. "Network Effects and the Measurement of Returns to Scale and Density for U.S. Railroads," in Andrew F. Daughety, (ed.), *Analytical Studies in Transport Economics*, Cambridge University Press, 1985, pp. 97-120, [with D.W. Caves, L.R. Christensen and R.J. Windle].
5. "Air Canada," in Mark C. Baetz and Paul W. Beamish (eds.) *Strategic Management: Canadian Cases*, 1986, pp. 127-144, [with D.W. Gillen and T.H. Oum].
6. "Airline Deregulation in Canada," in K. Button (ed.), *Airline Deregulation: International Experiences*, David Fulton Publishers, London, 1991, pp. 124-179, [with T.H. Oum and W.T. Stanbury].
7. "Airline Deregulation in Canada and It's Economic Effects," in Hayashi (ed.), *The New Dimensions for Public Utility*, (in Japanese), 1990. [with T.H. Oum and W.T. Stanbury]
8. "Canada and the Changing Regime in International Air Transport," in M. Zacher (ed.) *Canadian Foreign Policy and International Economic Regimes*, UBC Press, 1992, pp. 189-214, [with M.E. Dresner].
9. "Costing the Movement of Hazardous Materials by Rail," in L. Moses (ed) *Transportation of Hazardous Materials: Issues in Law, Social Science and Engineering*, Kluwer Academic Publishers, 1991, pp.6-39 to 6-58. [with W.G. Waters II].
10. "Island Programs: The UBC Experience with a Summer Program in France," in A.M. Rugman and W.T. Stanbury (eds), *Global Perspective: Internationalizing Management Education*, University of British Columbia Centre for International Business Studies, 1992, pp. 345-352.
11. "Canada-U.S. Open Skies" in C. Findlay (ed.), *Asia Pacific Air Transport*, 1997, pp.154-169.
12. "Impediments to Liberalization in Asia-Pacific International Aviation," in C. Findlay (ed.), *Asia Pacific Air Transport*, pp. 65-73.
13. "Airport Marketing: An Oxymoron?" in G. Butler (eds.), *Handbook of Airline Marketing*, McGraw Hill, 1998.
14. "Costing the Movement of Hazardous Materials by Rail," (with M.W. Tretheway) in L. Moses and D. Lindstrom, eds., *Transportation of Hazardous Materials: Issues in Law, Social Science and Engineering* (Kluwer Academic Press) 1993, pp.277-294.

C. Papers in Refereed Journals or Conference Proceedings

1. "Flexible Cost Functions for Multiproduct Firms," *Review of Economics and Statistics*, August, 1980, pp. 477-481, [with D.W. Caves and L.R. Christensen].
2. "Productivity Performance of U.S. Trunk and Local Service Airlines in the Era of Deregulation," *Economic Inquiry*, July, 1983, Vol. 21, No. 3, pp. 312-324, [with D.W. Caves and L.R. Christensen].

3. "Economies of Density Versus Economies of Scale: Why Trunk and Local Service Airline Costs Differ," *Rand Journal of Economics*, Winter, 1984, pp. 471-489, [with D.W. Caves and L.R. Christensen].
4. "Reforming Canadian Airline Regulation," *Logistics and Transportation Review*, Vol. 20 No. 3, September, 1984, pp. 261-284, [with T.H. Oum].
5. "The Total Factor Productivity of the Canadian Class I Railways: 1956-1981," *Logistics and Transportation Review*, Vol. 21, No. 3, September 1985, pp. 249-276, [with K.D. Freeman, T.H. Oum and W.G. Waters II].
6. "The Effect of New Entry on Productivity Growth in the U.S. Airline Industry: 1947-1981," *Logistics and Transportation Review*, Vol. 21, No. 4, December 1985, pp. 299-335, [with D.W. Caves, L.R. Christensen, and R.J. Windle].
7. "Airline Seat Management," *Logistics and Transportation Review*, Vol. 22(2), June 1988, pp.115-130. Paper also appeared in *Proceedings*, Canadian Transportation Research Forum, University of Saskatchewan Printing Services, May, 1986, pp. 232-245. This paper won the 1986 award for best paper on a management topic. Because of the award, the paper also appeared in the Sept. 1986 *Proceedings* of the Transportation Research Forum [with D.J.H. Kraft and T.H. Oum].
8. "Entry Barriers and Anti-competitive Behaviour in a Deregulated Airline Market: The Case of Canada," in *International Journal of Transport Economics*, Vol. 15(1), February 1988; also published in *Proceedings*, Canadian Transportation Research Forum, University of Saskatchewan Printing Services, May, 1986, pp. 483-493. This paper won the 1986 award for best paper on a policy topic. Because of the award, the paper also appeared in the Sept. 1986 *Proceedings* of the Transportation Research Forum, [with D.W. Gillen and T.H. Oum].
9. "Airline Deregulation: A Bibliography," *Logistics and Transportation Review*, Volume 22(4), December, 1986, pp. 449-489, [with W.T. Stanbury].
10. "Policy Choices for Canada in International Air Transport," in *International Business*, Ann Gregory (ed), refereed proceedings of the Administrative Sciences Association of Canada, Vol. 8, No. 8, June, 1987, pp. 83-94 [with Martin Dresner].
11. "Duopoly in Canada's Airline Industry: Consequences and Policy Issues," *Canadian Public Policy*, Vol. 14(1), March 1988, pp. 15-31 [with D.W. Gillen and W.T. Stanbury].
12. "Ramsey Pricing in the Presence of Externality Costs," *Journal of Transport Economics and Policy*, September, 1988, pp. 307-317 [with T.H. Oum].
13. "The Changing Role of IATA: Prospects for the Future," *Annals of Air and Space Law*, Vol. 13, 1988, pp. 3-23 [with M. Dresner].
14. "Airport Pricing Policies: An Application to Canadian Airports," *Journal of the Transportation Research Forum*, Vol. XXIX, No. 1, 1988. This paper won the A.T. Kearney Inc. Best Paper award at the Transportation Research Forum, Toronto, 1988, [with D.W. Gillen and T.H. Oum].

15. "The Canada - U.S. Air Transport Bilateral: Will It Be Freed?" *Transportation Practitioners Journal*, Vol. 56(4), Summer 1989, pp. 393-405, also in *Proceedings*, Canadian Transportation Research Forum, University of Saskatchewan Printing Services, May, 1988, [with M.E. Dresner and C. Hadrovic]. Excerpts also appear in *Air Transport Management*, March/April, 1988, Vol. 1(1).
16. "Airline Cost Structure and Policy Implications: A Multi-product Approach for Canadian Airlines," *Journal of Transport Economics and Policy*, January 1990, pp.9-34, [with D.W. Gillen and T.H. Oum].
17. "Hedonic versus General Specifications of the Translog Cost Function," *Logistics and Transportation Review*, Vol. 25(1), March 1989, pp. 3-21 [with T.H. Oum].
18. "Privatization of Air Canada: Why is it Necessary in a Deregulated Environment," *Canadian Public Policy*, Vol. 15(3), September 1989, pp. 285-299 [with D.W. Gillen and T.H. Oum].
19. "Frequent Flyer Programs: Marketing Bonanza or Anti-Competitive Tool?" *Proceedings*, Canadian Transportation Research Forum, University of Saskatchewan Printing Service, May 1989, pp. 433-446. This paper won honourable mention for best paper. This paper was also published in *Journal of the Transportation Research Forum*, Vol. XXX(1), 1989, pp. 195-201.
20. "Airline Hub and Spoke Systems," *Journal of the Transportation Research Forum*, Vol. XXX(2), 1990, pp. 380-393 [with T.H. Oum].
21. "Productivity Performance of the Canadian Pulp and Paper Industry," *Canadian Journal of Forest Research*, Vol. 20, No. 6, pp. 825-836, June 1990 [with A. Ghebremichael, D. Frank and T.H. Oum].
22. "Allocation of Airline Seats Between Stochastically Dependent Demands," *Transportation Science*, August, 1990, Vol. 24(3), pp. 183-192 [with S.L. Brumelle, J.I. McGill, T.H. Oum, and K. Sawaki].
23. "Globalization of the Airline Industry and Implications for Canada," *The Logistics and Transportation Review*, Vol. 26(4), December 1990, pp. 357-367; paper also appeared in *Proceedings*, Canadian Transportation Research Forum, University of Saskatchewan Printing Services, June 1990, pp. 150-159; paper also is forthcoming in *The Advocate*, Vancouver Bar Association.
24. "A Note on Capacity Utilization and the Measurement of Scale Economies," *Journal of Business and Economic Statistics*, January 1991, Vol. 9(1), pp. 119-123 [with T.H. Oum and Y. Zhang].
25. "A Comparison of the Productivity Performance of the U.S. and Canadian Pulp and Paper Industries," *Journal of Business Administration*, Vol. 20(1), 1992, pp. 212-235, [with T.H. Oum], also in *Emerging Issues in Forest Policy*, P.N. Nemetz (ed.) 1992, UBC Press, Vancouver, pp. 212-235.
26. "Airline Deregulation in Canada and its Economic Effects," *Transportation Journal*, Vol. 30(4), Summer 1991, pp.4-22 [with T.H. Oum and W.T. Stanbury].

27. "Productivity Adjustment to Price Levels in Regulated Rail Markets: Recent Developments in Canada and the United States," *Journal of the Transportation Research Forum*, 1991 Vol. 32 (1), pp. 172-181.
28. "Modelling and Testing the Effect of Market Structure on Price: The Case of International Air Transport," *Journal of Transport Economics and Policy* [with M.E. Dresner].
29. "ICAO and the Economic Regulation of International Air Transport," *Annals of Air and Space Law*, Vol. 17, Part II, 1992, pp. 195-211 [with M.E. Dresner].
30. "Concepts, Methods and Purposes of Productivity Measurement in Transportation," *Transportation Research-A*, 1992, Vol.26A No.6, pp.493-505 [with T.H. Oum and W.G. Waters II].
31. "Aggregation and Accuracy in Measuring Total Factor Productivity: Evidence from Rail Productivity Studies," (with W.G. Waters II) *Journal of Transportation Research Forum*, Vol. 25:2 (1995)
32. "The Total Factor Productivity of Canadian Railways, 1956-1991," (with W.G. Waters II and A.K.Fok) *Journal of Transport Economics and Policy* (Jan., 1997) pp.93-113.
33. "Reregulation of the Airline Industry -- Could Price Cap Regulation Make a Contribution?" (with W.G. Waters II), *J. of Air Transport Management* Vol 4 (1998) 47-53.
34. "Measuring Productivity and Price Performance: Concepts and Applications to Canadian Railways", (with W.G. Waters II) *Journal of Transport Economics & Policy* (forthcoming 1999)
35. "Labour payouts, productivity measurement and the price cap approach to regulation" (with W.G. Waters II) *J. of Transportation Research Forum* (forthcoming).
36. "A Sensitivity Analysis of Total Factor Productivity Measurement: Evidence from Rail productivity Studies," (with W.G. Waters II), *World Transport Research (refereed Proceedings of the World Conference on Transport Research)* Vol. 4, Transport Management, (New York: Elsevier), 1995.
37. "Labour Payouts, Productivity Measurement and Price Cap Regulation," (with W.G. Waters II), *Proceedings*, (U.S. Transportation Research Forum, San Antonio, TX (October 1996) Vol.2, 688-698.

Also published in *Journal of the Transportation Research Forum* (2000), Vol. 39 (1), pp. 131-144.

D. Reports

1. "The Structure of the Canadian Airline System and the Expected Impact of the Movement Toward Deregulation," Three volume report submitted to Treasury Board of Canada, March 1985, [with T.H. Oum and D.W. Gillen].¹
2. "Predatory Pricing in a Deregulated Canadian Airline Industry," confidential report submitted to Bureau of Competition Policy, Consumer and Corporate Affairs Canada, February, 1986, [with D.W. Gillen and T.H. Oum].
3. "Pricing Principles for Canadian Airports," a report prepared for Airports Task Force, Transport Canada, July, 1986, [with A. Manoucheri, D.W. Gillen and T.H. Oum].
4. "Pricing Policies for Canadian Airports with an Emphasis on Airfield Operations," a report prepared for Airports Task Force, Transport Canada, September, 1986, [with D.W. Gillen and T.H. Oum].
5. "Grain Costing Indices," confidential report prepared for Trade and Transportation Group for submission in regulatory hearings, Ottawa, November 1986.
6. "The Emergence of Airline Families: Issues of Control," report prepared for the Canadian Airline Pilots Association, February, 1987.
7. "The Impact of Bill C-18 on Employment in the Canadian Railway Industry," published as a Technical Report, Transport Canada, February, 1987, [with F.W. Trotter].
8. "Bill C-18 Rail Labour Impact Study," submitted to Transport Canada, March 1987 [with the Trade and Transportation Group and the Productivity Study Group, UBC].
9. "Development of Vancouver International Airport: Environment and Factors Affecting Success," report prepared for Asia Pacific Committee, and B.C. Department of Regional and Industrial Expansion, September, 1987.
10. "Logistical Marketing and Vancouver International Airport: The Need for a Strategic Approach," report prepared for Asia Pacific Committee and B.C. Department of Regional and Industrial Expansion, October, 1987.
11. "A Study of Peak Period Pricing with an Application to Toronto International Airport," report submitted to Airports Authority Group and Cost Recovery and Evaluation, Transport Canada, May 1988, [with D.W. Gillen and T.H. Oum].
12. "Alberta's Air Transportation System: Strategic Forces and Structural Alternatives," report submitted to Alberta Economic Development, April 1988, [with D.G. Dale, D.L. Frank, S.J. Ling and T.H. Oum].
13. "Review of Research Report on URCS Regression Equations," in U.S. Interstate Commerce Commission, *Uniform Railroad Costing System: Research Report*, July 1988, Washington, DC [with W.G. Waters II].

¹ Revised version published as a book by Centre for Transportation Studies, UBC.

14. "Critical Review of Economic Analysis of Capacity Enhancement Strategies for Vancouver International Airport," review submitted to Vancouver International Airport's Airside Capacity Enhancement Management Team, November 1989.
15. "Monopoly versus Duopoly in Canada's Airline Industry: Policy Alternatives and Consequences," prepared for the Economic Research Branch, Transport Canada, October 1991 [with T.H. Oum].
16. "Comments on Transport Canada's Proposed New Cost Recovery Policy: Phase II Discussion Paper," March 1991 [with T.D. Heaver, G.C. Chow, T.H. Oum and W.G. Waters II].
17. "Report of the Ministerial Task Force on International Airline Policy," July 1992. [I was Director of Research for the Task Force].
18. "The Economic Impact of a Transpacific Cargo Service" November 1994, for the Vancouver International Airport. [with S. Lui].
19. "The Economic Impact of a South Airport Operator: The Case of Harbour Air," November 1994, for the Vancouver International Airport. [with K. Kotlarchuk and L. Erbe].
20. "The Potential for Separating Rail track infrastructure from rail transportation," November 1994, for the Bureau of Competition Policy.
21. "The Economic Impact of the Vancouver International Airport: Summary Report" February 1995.
22. "The Employment and Economic Impact of the Vancouver International Airport," February 1995. [with L. Erbe and K. Tse]
23. "A Study of Economic Multipliers and their Application to the Economic Impact of the Vancouver International Airport," February 1995. [with K. Tse]
24. "The Employment Impact of a South Airport Floatplane operator: Harbour Air," February 1995. [With L. Erbe and K. Kotlarchuk.]
25. "The Employment Impact of Cathay Pacific's three times weekly cargo service," February 1995, [with S. Lui]
26. "Measuring Productivity Performance and Financial Returns for Canadian National and CP Rail, 1956-1991" UBC Centre for Transportation Studies (March, 1994) 302pp.
27. "The Feasibility of Grain-Specific Productivity Measurement for Regulating Railway Grain Rates in Canada," (with W.G. Waters II), for the Canadian Transportation Agency, Ottawa/Hull, 18pp. 14 March 97.

E. Testimony Provided

1. "Comments on Freedom to Move," *Minutes of Proceedings and Evidence of the House of Commons Standing Committee on Transport*, Issue #37, 19 November 1985, [with T.H. Oum].
2. "Analysis of the Changes in Airline Regulation Proposed in Bill C-18," Faculty of Commerce and Business Administration Working Paper, University of British Columbia, Vancouver, presented to House of Commons Standing Committee on Transport on behalf of the Consumers' Association of Canada, March, 1987, testimony appears in *Minutes of Proceedings and Evidence of the House of Commons Standing Committee on Transport*, Issue #17, 12 March 1987, [with W.T. Stanbury].
3. "Amendments Recommended to Bills C-18 and C-19," *Minutes of Proceedings and Evidence of the House of Commons Standing Committee on Transport*, Issue #19, 16 March 1987, [with G.C. Chow, T.D. Heaver, T.H. Oum and W.G. Waters, II].
4. "Monitoring the Effects of the National Transportation Act, 1987, and Associated Legislation," a report to Transport Canada, 29 May 1987, [with G.C. Chow, T.D. Heaver, T.H. Oum and W.G. Waters II].
5. "Railroad Productivity Measurement," verified statement prepared for the Association of American Railroads for submission to the U.S. Interstate Commerce Commission, Ex Parte 290 (Sub. 4), 16 December 1988, [with W.E. Diewert and W.G. Waters II]. Reply verified statement submitted 17 January 1989.
6. "Analysis of the Effect of the Gemini Computer Reservation System Merger on Competition in the Canadian Airline Industry," affidavit prepared for Consumer and Corporate Affairs Canada for submission to Canadian Competition Tribunal, 1 March 1989.
7. "Comments" on the Uniform Railroad Costing System," verified statement prepared for the Association of American Railroads for submission to the U.S. Interstate Commerce Commission, Ex Parte 431 (Sub 1), 20 March 1989, Washington, DC [with W.G. Waters II].
8. "Comments," submitted to Canadian National Transportation Agency hearings on VIA Rail Pricing Policies," 30 March 1989 [with T.D. Heaver, T.H. Oum and W.G. Waters II].
9. "Physical Versus Deflated Expenditure Approaches Toward Rail Productivity Measurement," verified statement prepared for the Association of American Railroads for submission to the U.S. Interstate Commerce Commission, Ex Parte 290 (Sub. 7), 26 May 1989 [with W.G. Waters II]. Reply Verified Statement submitted 26 June 1989.
10. "Verified Statement," submitted to U.S. Interstate Commerce Commission on behalf of the Association of American Railroads, Ex Parte 290 (Sub. 4), 14 August 1989 [with W.G. Waters II]. Reply verified statement submitted 29 August 1989.
11. "Strategic Options for Wardair," testimony prepared for the Air Crew Association of Canada (Wardair Pilots) for submission to labour arbitration hearing, November 1989. Reply testimony submitted January 1990.

12. "Statement to Commission of Inquiry on Canadian University Education," 6 November 1990.
13. "Submission to the Royal Commission on National Passenger Transportation on behalf of the Director of Investigation and Research: Competition Act," 15 November 1990. Submission jointly drafted with staff of the Bureau of Competition Policy and Professor George Wilson (Indiana).
14. "Submission of the Centre for Transportation Studies, UBC, to the Royal Commission on Passenger Transportation," 6 December 1990, Vancouver [with T.D. Heaver, G.C. Chow, T.H. Oum and W.G. Waters II].
15. "Verified Statement" submitted to U.S. Interstate Commerce Commission on behalf of the Association of American Railroads, Ex Parte 290 (Sub. No. 7), 5 April 1991. Reply verified statement submitted 6 May 1991.
16. "Verified Statement" submitted to U.S. Interstate Commerce Commission on behalf of the Association of American Railroads, Ex Parte 431 (Sub.No.2), 14 August 1991.
17. "Statement in Support of the Director of Investigation and Research Gemini 106 Application," submitted to the Competition Tribunal, 30 December 1992, oral statement 9 February 1993.
18. "Statement in support of the Director of Investigation and Research," submitted to National Transportation Agency, oral testimony given 14 April 1993.
19. "Statement of Michael W. Tretheway," for Qantas Airways and British Airways before the Australian Trade Practices Commission, September 1994. Additional statements were filed in Oct. 1994, December 1994, January 1995.
20. "Report on the Growth and Prospects of Regional Carriers," for the Air B.C. Master Executive Council before a labour arbitrator, November 1994.
21. "Preliminary Comments on the proposed acquisition of CAST by CP Ltd. subsidiary CANMAR," confidential report prepared for counsel for Bureau of Competition Policy, 23 March 1995.
22. "Statement of Dr. Michael W. Tretheway," prepared for T1T2 Ltd., to the Federal Court of Canada, December 1995.
23. "Statement of Dr. Michael W. Tretheway," prepared on behalf of Qantas Airways Ltd., to the New Zealand Commerce Commission, 1996.
24. "Statement of Michael W. Tretheway" for Comair Pty Ltd. (South Africa), testimony provided to South African Civil Aviation Tribunal, 1997.

F. Papers in Conference Proceedings

1. "An International Comparison of Airlines," *Proceedings*, Canadian Transportation Research Forum, University of Saskatchewan Printing Services, May, 1984, pp. 653-676.
2. "Measuring and Identifying the Causes of the Productivity Performance of the Canadian Class I Railroads: 1956-1981," *Proceedings*, Canadian Transportation Research Forum, University of Saskatchewan Printing Services, May, 1985, pp. 743-765, [with K.D. Freeman, T.H. Oum and W.G. Waters II].
3. "Productivity Adjustment to Price Levels in Regulated Rail Markets: Recent Developments in Canada and the United States," *Proceedings*, Canadian Transportation Research Forum, University of Saskatchewan Printing Services, June, 1990, pp. 339-350 [with W.G. Waters II].
4. "Productivity Trends in Canadian and U.S. Railroads," forthcoming *Proceedings*, Canadian Transportation Research Forum, University of Saskatchewan Printing Services, June, 1991, pp. 436-450 [with W.G. Waters II].
5. "Costing the Movement of Hazardous Materials by Rail," *Hazmat Transport '91*, a National Conference on Management and Policy Issues in the Transportation of Hazardous Materials and Wastes, Northwestern University, Evanston, IL, June 17-19, 1991 [with W.G. Waters II].
6. "U.S. Railroad Productivity After Staggers," *Proceedings*, Transportation Research Forum, New Orleans, October 1991, pp. 521-531, published by TRF, Arlington, VA [with W.G. Waters II].
7. "Re-regulation of the Airline Industry: Would Price Cap Regulation Work?" *Proceedings*, Canadian Transportation Research Forum, May 1994, University of Saskatchewan Printing Services. [with W.G. Waters II]
8. "Long Term Capital Input Trends and Financial Performance Measures for CN and CP," in *Proceedings*, Canadian Transportation Research Forum, University of Saskatchewan Printing Services, June, 1994. [with W.G. Waters II].

G. Papers Under Review

H. Unpublished Working Papers

1. "A Reexamination of Scale Economies for U.S. Trunk Airlines," SSRI Discussion Paper #8026, Dept. of Economics, University of Wisconsin-Madison, December, 1980, [with D.W. Caves and L.R. Christensen].
2. "Productivity Effects of Mergers in the U.S. Rail Industry: Economies of Density versus Economies of Firm Size," presented at Econometric Society Meetings, San Francisco, December 1983, [with D.W. Caves, L.R. Christensen and R.J. Windle].
3. "Cost Structure and Economic Performance of the Canadian Class I Railroads," University of British Columbia, Faculty of Commerce Working Paper 1087, February, 1985, [with K.D. Freeman, T.H. Oum and W.G. Waters II].

4. "Productivity in the U.S. Trucking Industry: The Early Deregulation Experience," Working Paper, June, 1987, [with G. Chow].
5. "Total and Variable Factor Productivities: Relationships to Cost Function Estimation," Working Paper, May, 1987.
6. "Cost Function Estimation, Economists Versus the Practitioners: An Exploratory Analysis," Working Paper, July, 1987, [with T.H. Oum and W.G. Waters II].
7. "Measurement of the Social Marginal Costs at a Congested Airport: An Application to Toronto International Airport," Working Paper, Faculty of Commerce and Business Administration, University of British Columbia, December, 1987 [with D.W. Gillen and T.H. Oum].
8. "A Comparison of the Productivity Performance of the Canadian, U.S. and Swedish Pulp and Paper Industries," Working Paper, Faculty of Commerce and Business Administration, University of British Columbia, March, 1989 [with T.H. Oum].
9. "Pricing to Reflect Airport Runway Congestion: A Simulation-Based Methodology," Working Paper, Faculty of Commerce and Business Administration, University of British Columbia, May, 1989 [with T.H. Oum and D. Uyeno].
10. "Productivity Measurement of the Pulp and Paper Industry, with an Adjustment for Capacity Utilization: A Comparison of Canada, Sweden, and the U.S." Working Paper, March 1990, [with T.H. Oum and Y. Zhang].
11. "Price Discrimination and Economics of Scope: Are Current Airline Practices Socially Optimal?" Working Paper 90-TRA-008, Faculty of Commerce and Business Administration, University of British Columbia, Vancouver, May 1990, [with I. Savage].
12. "The Characteristics of Modern Post-Deregulation Air Transport," Working Paper, Faculty of Commerce and Business Administration, University of British Columbia, Vancouver, February 1991.
13. "Productivity Measurement, Decomposition, and Efficiency Comparison of the Pulp and Paper Industry: Canada, the U.S. and Sweden, March 1991 [with T.H. Oum and Y. Zhang].
14. "European Air Transport in the 1990s: Deregulating the Internal Market and Changing Relationships with the Rest of the World," Faculty of Commerce and Business Administration, University of British Columbia, Vancouver, June 1991.
15. "The Cost Competitiveness of Canadian Air Carriers," Faculty of Commerce and Business Administration, University of British Columbia, Vancouver, June 1991.

16. "Measurement and Comparison of the Productive Efficiency of the Pulp and Paper Industry: Canada, the U.S. and Sweden," Faculty of Commerce and Business Administration, University of British Columbia, Vancouver, December, 1992 [with T.H. Oum and Y. Zhang]. 1. "Productivity Measurement and Its Application to the Rail Industry," Working Paper 90-TRA-011, Faculty of Commerce and Business Administration, University of British Columbia, Vancouver, September 1990, [with W.G. Waters II].
17. "Global Consolidation Forces in the World Airline Industry" February 1992. Paper is in a revise and resubmit status.
18. "Measuring Output and Price Productivity: Concept and Application to Canadian Railways," August 1993. [with W.G. Waters II].
19. "The Total Factor Productivity of the Canadian Railways," April 1994. [with W.G. Waters] Paper is in a revise and resubmit status.
20. "Aggregation and Accuracy in Measuring Total Factor Productivity: Evidence from Rail Productivity Studies," April 1995.

I. Other Unpublished Papers

1. "Measuring Productivity Sharing in Regulated Industries," Working Paper, Faculty of Commerce and Business Administration, The University of British Columbia, Vancouver, June 1991.
2. "Productivity in the North American Rail Industry," March 1992 [with W.G. Waters II].
3. "Labour Payouts, Productivity Measurement and Price Cap Regulation," July 1994. [with W.G. Waters II].
4. "Government Policy Toward the Canadian Airline Industry: 1980-1993," January 1994. [with W.T. Stanbury].
5. "The Concept of a Critical Mass Airport," working paper to be published in Strategic Plan of the Vancouver International Airport. June 1994.
6. "A Sensitivity Analysis of Total Factor Productivity Measurement: Evidence from Rail Productivity Studies," April 1995 for presentation at World Conference on Transportation Research. [with W.G. Waters]
7. "Separating Rail Infrastructure from Rail Transportation Services: Economic Principles and International Experiences," May 1995.

J. Other Publications

1. "Airline Productivity Under Deregulation," *Regulation*, Nov./Dec. 1982, pp. 25-28, [with D.W. Caves and L.R. Christensen].

2. "The Canada-U.S. Air Transport Bilateral: Will It Be Freed?" *Air Transport Management*, Vol. 1(1) March (April) 1988, pp.9-12 [with M.E. Dresner and C. Hadrovic].
3. "Survival Under Freer Skies," *Air Transport Management*, Vol. 1(2), May/June, 1988, pp. 10-12 [with D.W. Gillen and T.H. Oum].
4. "Selling Air Canada: A No-Lose Situation," *Globe and Mail*, 16 May 1988, p. A7 [with W.T. Stanbury].
5. "Hidden Agendas are Distorting the Safety Issue," *Air Transport Management*, Vol. 1(3), September/October 1988, p.11.
6. "Airport Pricing and Capacity Expansion: Economic Evaluation of Alternatives," *Transport Review*, published by Transport Canada, forthcoming, 1990 [with D.W. Gillen and T.H. Oum].
7. "Peak Period Pricing: An Idea Whose Time Has Come," *Air Transport Management*, Vol. 2(1), January/February 1990, pp.16-17.
8. "New Runways and the Environment," *Air Transport Management*, Vol. 3(1), March/April 1990, p.19.
9. "Prom Night: Choosing Partners for the Global Airline Dance," *Air Transport Management*, Vol. 3(2), May/June 1990, pp. 13-19.
10. "On the Urge to Merge," letter to editor, *Policy Options*, Vol. II(5), June 1990.
11. "Regionalism in International Air Regulations," Working Paper 92-TRA-011, Faculty of Commerce and Business Administration, The University of British Columbia, Vancouver, December 1992.
12. "The Role of the Airport in the Post-Resource Economy," published as a working paper of the Vancouver International Airport, and forthcoming as an appendix to the airport's strategic plan. First published June 1994.
13. "Open Skies at Last," forthcoming in *Connector*, Canadian Business Travel Association, June 1995.
15. Many articles written for YVR Skytalk under pen name of Harold Michaels.

K. Book Reviews

1. Sigafos, R.A. (1984), *Absolutely, Positively Overnight: The Story of Federal Express*, review appeared in *Logistics and Transportation Review*, Vol. 21, (2), June 1985, pp. 185-187
2. Nance, J.J. (1984), *Splash of Colors*, review appeared in *Logistics and Transportation Review*, Vol. 21 (2), June 1985, pp. 185.

3. Morrison, S. and C. Winston (1986), *The Economic Effects of Airline Deregulation*, review appeared in *Logistics and Transportation Review*, Vol. 23 (1), March 1987, pp. 135-136.
4. Bailey, E.E., D.R. Graham and D.P. Kaplan (1985), *Deregulating the Airlines*, review appeared in *Logistics and Transportation Review*, Vol. 23 (1), March 1987, pp. 135.
5. Shaw, S. (1988), *Airline Marketing and Management*, review appeared in *Logistics and Transportation Review*, Vol. 25 (2), June 1989, pp. 183-185.
6. Small, K.A., C. Winston and C. Evans (1989), *Road Work: A New Highway Pricing and Investment Policy*, review appeared in *Logistics and Transportation Review*, Vol. 25 (4), December 1989, pp. 375-376.
7. Chesen, J.R. (1989), *Canadian-American Air Service Negotiations: Ending the Gridlock*, review appeared in *Logistics and Transportation Review*, Vol. 26 (3), September 1990, forthcoming.
8. Wells, A.T. and B.D. Chadbourn (1987), *General Aviation Marketing*, review forthcoming in *Logistics and Transportation Review*.

L. Computer Program Papers and Reference Manuals

1. "Time Series Processor at the University of Wisconsin (TSP-WISC)," Computer manual available from Madison Academic Computing Center, University of Wisconsin-Madison, October 1977, June 1978, [with D.W. Caves].
2. "Econometric Estimation Using the Time Series Processor at the University Wisconsin (TSP-WISC)," SSRI Discussion Paper #7711, Department of Economics, Madison, September 1977, [with D.W. Caves].
3. "Time Series Processor at the University of Wisconsin, Programmer's Reference Manual," mimeo., Department of Economics, University of Wisconsin-Madison, July 1979, [with C. Franklin].
4. *Econometric Programming Language: User's Manual*, Computer manual available from Christensen Associates, 810 University Bay Drive, Madison, WI 53705, November 1980, [with D.W. Caves].
5. *Econometric Programming Language: Reference Manual*, Computer manual available from Christensen Associates, 810 University Bay Drive, Madison, WI 53705, December 1981.
6. *Econometric Programming Language: Primer*, Computer manual available from Christensen Associates, 810 University Bay Drive, Madison, WI 53705, March 1981.
7. *Econometric Programming Language: Programmer's Reference Manual*, Computer manual available from Christensen Associates, 810 University Bay Drive, Madison, WI 53705, August 1981, [with S.A. Novogoratz].

PAPERS PRESENTED AT CONFERENCES

1. "Total Factor Productivity of U.S. Trunk Air Carriers, 1972-1977," presented at NSF sponsored conference on Productivity Measurement in Regulated Industries, May, 1980.
2. "A Reexamination of Scale Economies for U.S. Trunk Airlines," presented at Econometric Society, Denver, September, 1980.
3. "The Influence of Ownership Form and Regulation on Economic Performance: Canadian and U.S. Railroads in the Postwar Period," presented at IRPP conference on Managing Public Enterprises, Vancouver, August, 1981.
4. "Economies of Density and the Effects of Network: A Revaluation of Scale Economies for U.S. Trunk Airlines," presented at the Econometric Society, New York, December, 1982.
5. "Productivity Effects of Mergers in the U.S. Rail Industry: Economies of Density versus Economies of Firm Size," presented at the Econometric Society, San Francisco, December 1983.
6. "An International Comparison of Airlines," presented at Canadian Transportation Research Forum, Jasper, Alberta, May 1984.
7. "Identifying and Measuring the Impact of Government Ownership and Regulation on Airline Performance," Research Conference on Government Enterprise, Toronto, November, 1984.
8. "Measuring and Identifying the Causes of the Productivity Performance of the Canadian Class I Railroads," presented at Canadian Transportation Research Forum, Toronto, May, 1985.
9. "Hedonic versus General Specifications of the Translog Cost Function," presented at Canadian Economic Association Meetings, University of Montreal, May, 1985.
10. "Hedonic versus General Specifications of the Translog Cost Function," presented at Econometric Society 5th World Congress, Massachusetts Institute of Technology, Boston, August 1985.
11. "An Assessment of the Efficiency Effects of U.S. Airline Deregulation Via an International Comparison," presented at NSF sponsored conference on Regulation of the Crossroads, Airlie, Virginia, September 12-14.
12. "Productivity Differences Between U.S., Canadian and Non-North American Airlines: The Effect of Deregulation," World Conference on Transport Research, Vancouver, May, 1986.
13. "Entry Barriers and Anti-competitive Behavior in a Deregulated Canadian Airline Market," Canadian Transportation Research Forum, Vancouver, May, 1986.
14. "Airline Seat Management," presented at Canadian Transportation Research Forum, Vancouver, May, 1986.

15. "Impact of Deregulation on Railway Labour Employment, Productivity and Compensation," presented at Canadian Transportation Research Forum, St. John's, Newfoundland, June, 1987.
16. "Airline Hub and Spoke Systems," presented at Canadian Transportation Research Forum, St. John's, Newfoundland, June, 1987.
17. "Airport Pricing Policies: An Application to Canadian Airports," presented at Canadian Transportation Research Forum, St. John's, Newfoundland, June, 1987.
18. "The Changing Role of IATA: Prospects for the Future," presented at workshop on "Frontiers in Transportation Research," Washington State University, June, 1987.
19. "Total and Variable Factor Productivities: Relationships to Cost Function Estimation," presented at Canadian Economics Association meetings, Hamilton, Ontario, June, 1987.
20. "Ramsey Pricing in the Presence of Externalities," presented at Canadian Economics Association meetings, Hamilton, Ontario, June, 1987.
21. "Cost Function Estimation, Economists Versus the Practitioners: An Exploratory Analysis," presented at Western Economics Association Meetings, Vancouver, B.C., July, 1987.
22. "Productivity in the U.S. Trucking Industry: The Early Deregulation Experience," presented at Western Economics Association meetings, Vancouver, B.C., July, 1987.
23. "Airline Cost Structure: A Multiproduct Approach for Canadian Airlines," presented at Western Economic Association meetings, Vancouver, B.C., July, 1987.
24. "Economic Performance of the Canadian Pulp and Paper Industry: 1963-1982," presented at United Nations FAO/ECE Working Party on Forest Economics and Statistics, Palais des Nations, Geneva, February, 1988.
25. "Timing Models for Services Marketing," presented at ORSA/TIMS Marketing Science Conference, Seattle, March 1988.
26. "The Canada-U.S. Air Transport Bilateral: Will It Be Freed?" presented at Canadian Transportation Research Forum, Minaki, Ontario, May, 1988.
27. "Duopoly in Canada's Airline Industry: Consequences and Policy Issues," presented at Tenth Annual Conference of the Association for Public Policy Analysis and Management, Seattle, 28 October 1988.
28. "Airport Pricing Principles," presented at Transportation Research Forum, Toronto, 11 November 1988.
29. "Comparing the Productivity Performance of Canada, U.S. and Sweden in the Pulp and Paper Industry," presented at Canadian Pulp and Paper Association 43rd annual meetings, Human Resources Section, Vancouver, 19 September 1989.
30. "Deregulation and Airline Employment: Myth versus Fact," response for book reviewer comments, Transportation Research Forum, Williamsburg, Va., 12 October 1989.

31. "Airline Hub and Spoke Systems," presented at Transportation Research Forum, Williamsburg, Va., 13 October 1989.
32. "Modelling and Testing the Effect of Market Structure on Price: The Case of International Air Transport," presented at American Economic Association meetings, Atlanta, Ga., 29 December 1989.
33. "Canada and the Changing Regime in International Air Transport," presented at Conference on Canada and International Economic Regimes: A Critical Appraisal, University of British Columbia Institute for International Relations, Vancouver, B.C., 31 May 1990.
34. "Price Discrimination and Economics of Scope: Are Current Airline Practices Socially Optimal?" presented at Canadian Economics Association, Victoria, B.C., 3 June 1990.
35. "Canadian Airline Deregulation," presented at Canadian Transportation Research Forum, Saskatoon, June 1990.
36. "Productivity Adjustment to Price Levels in Regulated Rail Markets: Recent Developments in Canada and the United States," presented at Canadian Transportation Research Forum, Saskatoon, June 1990.
37. "Globalization of the Airline Industry and Implications for Canada," presented at Canadian Transportation Research Forum, Saskatoon, June 1990.
38. "Canadian Airline Deregulation and Its Economic Effects," presented at Transportation Research Forum, Long Beach, October 1990.
39. "Technology, Marketing and Policy: The Advent of the Globalized Airline Industry," presented at B.C. Aviation/Canadian Transportation Research Forum annual B.C. Aviation Seminar, Vancouver, 1 May 1992.
40. "Airline Globalization: The Strategic Games of the 1990s" presented at Alliance of Canadian Travel Associations, Winnipeg, 10 May.
41. "The Advent of the Globalized Airline Industry," presented at Canadian Airlines International, European Studies Program, Vancouver, 24 May 1991.
42. "The Logistics of Scrap and Waste Disposal," presented at Canadian Transportation Research Forum, Quebec City, 30 May 1991.
43. "From the People Who Brought You Airline Deregulation, Now Comes Airline Globalization," presented to Association of Professional Economists, Vancouver, 11 June 1991.
44. "Globalization of the Airline Industry," presented at Pacific Rim Council on Urban Development, Vancouver, 7 October 1991.
45. "The Global Context: The Advent of the Globalized Airline Industry," keynote speech, presented at British Columbia Airports workshop, Prince Rupert, B.C., 15 November 1991.

46. "Monopoly versus Duopoly in Canadian Air Transport," presented at Transportation Research Forum, New Orleans, 1 November 1991.
47. "U.S. Railroad Productivity After Staggers," presented at Transportation Research Forum, New Orleans, 1 November 1991 [with W.G. Waters II, who made the presentation].
48. "Report of the Ministerial Task Force on International Air Policy," presented to Vancouver International Airport community, 6 March 1992.
49. "Globalization of the Airline Industry," presented at the 1992 North American Avionics Maintenance Conference, Vancouver, 24 March 1992.
50. "Restructuring the Canadian Airline Industry: Historical and Global Perspectives," presented at the annual meeting, Western Transportation Advisory Council, Winnipeg, 26 March 1992.
51. "Changes to Air Transport in the 1990s: Implications for Non-Metropolitan Airports," presented at "Westcoast Vision," 1992 annual conference of the Economic Development Association of B.C., Campbell River, B.C., 6 April 1992.
52. "Addressing Critical Transportation Issues: the Structure of the Airline Industry" presented at 1992 Annual Meeting of the Western Transportation Advisory Council, 26 March 1992, Winnipeg.
53. "Canada's Airline Industry: Merging, Seeking Foreign Investment, or Going it Alone: Overview," presented at B.C. Aviation Seminar, Vancouver, 14 May 1992.
54. "Global Consolidation Forces in the World Airline Industry," presented at World Conference on Transportation Research, Lyon France, 1 July 1992.
55. "Aviation Opportunities: Bilateral Obstacles," presented at Asia Pacific Foundation Conference, 22 April 1993.
56. "Multilateral Air Services Agreements," presented at Pacific Economic Cooperation Council, March 1994, Kuala Lumpur.
57. "Globalization and Telecommunications Innovation," presented to Canadian Airlines Sales Conference, April 1994.
58. "Airline Globalization" presented to Conference on International Air Transport, Canberra, May 1994.
59. "Do Airports Compete?" presented at Canberra Australia to intergovernmental task force, May 1994.
60. "Rail Issues," presented to Bureau of Transport and Communications Economics," Canberra, May 1994.
61. "Air Transport to the Year 2000," presented to "Creating Tomorrow", conference of the Council of Canadian Airline Employees, June 1994.

62. "Airports in the 1990s: Changing government priorities lead to commercialization," presented to Association of Canadian Travel Executives, 19 October 1994, Vancouver.
63. "Paradigm Shift: the global change in the role of airports in the economy," keynote speech to the 1995 conference of the British Columbia Association of Canadian Travel Agents, March 1995.
64. "Open Skies and what it means for Canada," presentation to the 1995 British Columbia meeting of the Canadian Business Travel Association. April 1995.
65. Numerous presentations at conferences from 1996 onwards, including Airports Council International - North America, Airports Council International - Pacific, International Air Transport Association Legal Conference, Canadian Business Travel Association, Alliance of Canadian Travel Agents, Association of Canadian Travel Executives, Canadian Airports Council, Federal Aviation Administration Forecasting Conference, Asia Pacific Economic Cooperation, Pacific Economic Cooperation Council.

OTHER CONFERENCES

1. Annual B.C. Aviation Conference, Vancouver, jointly sponsored by UBC Centre for Transportation Studies, Canadian Transportation Research Forum, and B.C. Aviation Council, March 1984. Conference organizer, session chair.
2. Annual B.C. Aviation Conference, Vancouver, jointly sponsored by UBC Centre for Transportation Studies, Canadian Transportation Research Forum, and B.C. Aviation Council, April 1985. Conference organizer, session chair.
3. Annual B.C. Aviation Conference, Vancouver, jointly sponsored by UBC Centre for Transportation Studies, Canadian Transportation Research Forum, and B.C. Aviation Council, April 1986. Conference organizer, session chair.
4. Annual B.C. Aviation Conference, Vancouver, jointly sponsored by UBC Centre for Transportation Studies, Canadian Transportation Research Forum, and B.C. Aviation Council, April 1987. Conference organizer, session chair.
5. Annual B.C. Aviation Conference, Vancouver, jointly sponsored by UBC Centre for Transportation Studies, Canadian Transportation Research Forum, and B.C. Aviation Council, May 1988. Conference organizer, session chair, rapporteur.
6. Western Economics Association, July 1987, Vancouver. Discussant at 3 sessions, chair of 1 session.
7. Western Economics Association, July 1988, Los Angeles. Discussant.
8. Canadian Network on Productivity, March 31 - April 1, 1989. Co-Director.
9. Annual B.C. Aviation Conference, Vancouver, jointly sponsored by UBC Centre for Transportation Studies, Canadian Transportation Research Forum, and B.C. Aviation Council, April 1989. Conference organizer, session chair.

10. Improving Grain Logistics: Barriers to Change, conference organized by UBC Centre for Transportation Studies, Vancouver, April 17-18, 1989. Participant.
11. International Northwest Aviation Conference, August 1989, Fairmont Hot Springs, B.C. session chair, rapporteur.
12. Annual B.C. Aviation Seminar, Vancouver, jointly sponsored by UBC Centre for Transportation Studies, Canadian Transportation Research Forum, and B.C. Aviation Council, 25 April 1990. Conference organizer, session chair.
13. Canadian Economics Association, Victoria, B.C., 1-3 June 1990. Session chair, paper discussant.
14. Alberta Symposium on Future Intercity Passenger Transportation, University of Calgary, 28 June 1990. Panelist.
15. Vancouver International Airport Marketing Development, Vancouver 15 February 1991. Panelist.
16. Annual B.C. Aviation Conference, Vancouver, jointly sponsored by UBC Centre for Transportation Studies, Canadian Transportation Research Forum, and B.C. Aviation Council, March 1991, Conference organizer, session chair.
17. Annual B.C. Aviation Conference, Vancouver, jointly sponsored by UBC Centre for Transportation Studies, Canadian Transportation Research Forum, and B.C. Aviation Council, March 1992, Conference organizer, session chair.
18. World Conference on Transportation Research, Lyon France, 29 June - 3 July 1992. Program committee, session organizer.
19. Annual B.C. Aviation Conference, Vancouver, jointly sponsored by UBC Centre for Transportation Studies, Canadian Transportation Research Forum, and B.C. Aviation Council, March 1993, Conference organizer, session chair.
20. Annual B.C. Aviation Conference, Vancouver, jointly sponsored by UBC Centre for Transportation Studies, Canadian Transportation Research Forum, and B.C. Aviation Council, April 1994, Conference organizer, session chair.
21. World Conference on Transportation Research, Sydney Australia, July 1995, session organizer, session chair.

COURSES TAUGHT

Managerial Economics
 Business Statistics
 Seminar in Transportation Economics
 Air Transportation
 Urban Transportation
 Business Logistics
 Logistics and Operations Management
 International Business Logistics
 Project Evaluation (Social Cost Benefit Analysis, and Environmental Impact Statements)
 Transportation in Economic Development
 Transportation Policy
 Introduction to Transportation

SUPERVISION OF STUDENT THESES**Ph.D. Committees - Chairman**

Martin Dresner - 1989

Ph.D. Committees - Committee Member

Jeff McGill - 1989

Mike Li - 1994

M.Sc. Committees - Chairman M.Sc. Committees - Committee Member

Julie Laviolette - 1987

Kevin Caskey - 1987

Tony Roberts - 1994

Saskia Roukema - 1995e

Todd Kurtin - 1984

Chris Christopherson - 1984

Marie Trepannier - 1985

Eva Busza (MA) - 1987

Guy Maclaren (MPlan) - 1991

Reagan Pratt - 1993

Heather Romank - 1995e

MBA Paper Supervisor

Greg Saretsky - 1984

Patricia Dusting - 1985

Donna Chin - 1985

David Campbell - 1985

Roger McLaughlin - 1985

Peter Kutney - 1986

Gary Jung - 1986

Ming Ho - 1986

Jim Blatchford - 1986

Tomo Adachi - 1993

Jeannette Godin - 1986

Nancy Keen - 1987

Susan Sinott - 1987

Terry David - 1988

William Chan - 1988

Edward Chan - 1988

Linda Moore - 1989

Roger Purdy - 1989

John Korenic - 1990

Neal Chinaleong - 1994

Peter Leighton - 1990

Debra Stephan - 1990

Cheryl Trepanier - 1990

Paul Ouimet - 1991

Mike Bendarz - 1991

Sean Strugnell - 1992

Brett Patterson - 1992

Ted Gadsden - 1992

Bob Beck - 1992

Dale Mortimer - 1995

EXTERNAL RESEARCH GRANTS

NSERC (1986-1989) (\$13,000 per year)

SSHRC (1984) (\$20,000)

SSHRC (1986-1989) (\$20,000 per year)

SSHRC (1990-1993) (\$14,000 per year)

SSHRC (1992-95) (\$50,000 per year)

Transport Canada (1983) (\$6,000)

Transport Canada (1983) (\$20,000)

Transport Canada (1984) (\$20,000)

Transport Canada (1985) (\$54,000)

Transport Canada (1990) (\$19,000)

Employment Canada (1986) (\$125,000) Transport Canada (1991) (\$29,600)
Employment Canada (1987) (\$98,000) Transport Canada (1991) (\$21,000)
SSHRC (1995-97) (\$30,000 per year), principal investigator, "Gateway Productivity"
SSHRC (1995-97) (\$15,000 per year), co-investigator, "Total Price Productivity"

Contract research has been conducted for:

Air B.C. Master Executive Council (1994)
Air Crew Association of Canada (1989, 1990)
Alberta Economic Development (1988)
Alberta Transportation and Utilities (1992)
Association of American Railroads (1988, 1989, 1990, 1991, 1992, 1993)
British Airways (1994-95)
B.C. Ministry of Regional Economic Development (1987)
Canadian Airline Pilots Association (1987)
Consumer and Corporate Affairs Canada (1986, 1987, 1988, 1989, 1990, 1991, 1992, 1994, 1995)
 (Bureau of Competition Policy)
Consumers Association of Canada (1987)
Goepel Shields and Partners (1994)
Horizon Pacific Management (1988)
Ministerial Task Force on International Air Policy (1990, 1991)
Pemberton Houston Willoughby (1987, 1988)
Qantas Airways (1994, 1995)
Stanley Associates Engineering (1986)
Trade and Transportation Group (1987)
Transport Canada (1986, 1987, 1988, 1990, 1991)
U.S. Civil Aeronautics Board (1980)
Vancouver International Airport (1989, 1990, 1994)
Western Diversification Fund (1988)

UNIVERSITY SERVICE

Faculty of Commerce:

Appointment Promotion and Tenure Committee (1988/89, 1993/94)
Classroom Planning Committee (1994)
Computing Resources Committee (1984/85-chair, 1985/86, 1986/87, 1987/88, 1988/89,
 1989/90)
Curriculum Committee (1989/90, 1990/91-chair, 1991/92-chair, 1992/93-chair)
Faculty Retreat Committee (1990-chair)
Merit Committee (1988, 1991)
Teaching Development Committee (1986/87, 1987/88, 1989/90, 1991/92-chair, 1992/93-
 chair)
Teaching Evaluation Review Committee (1993)
Teaching Development Fund Committee (1994-95)
Undergraduate Program Review Committee (1991/92)
Instructor in Summer Program in International Business in France
 (1991, 1992, 1993, 1994)
Director, Summer Program in International Business in France (1992, 1993, 1994)
 Director of Teaching and Curriculum Development (1992/93)

University:

Member, President's Task Force on Networking (1985/86)
 External Review of Computing Centre (1988)
 Vice President's Committee on US Long Distance Services (1991)
 Senate Curriculum Committee (1990/91, 1991/92, 1992/93)
 University Representative, UBC Child Care Society (1988/89, 1989/90, 1990/91)
 Treasurer, UBC Childcare Society (1988/89, 1989/90)
 Vice President, UBC Childcare Society (1990/91)
 Campus Classroom Planning Committee (1994)
 Internal Ph.D. exam reviewer: G. Papatheodorou (1989)
 M. Rushton (1990)
 Khaled Alskait (1993)

OTHER SERVICE

- Director of Research, Ministerial Task Force on (Canadian) International Air Policy (1990, 1991)
- Committee Member, Ministerial Committee on Air Policy Issues (1997)
- Co-Director, Canadian Network on Productivity (1988/89)
- Member, Minister of Transport Advisory Committee on Airport Transfers (1988-91)
- Member, user funding committee, Federal Environmental Assessment Review Office (1990)
- Transportation subcommittee, Vancouver Planning Commission (1987)
- Productivity Committee, Association of American Railroads
- Vancouver Board of Trade: Airline Pre-Clearance Task Force (1987)
- Vancouver Gateway Council (1994)
- Associate Editor, *Logistics and Transportation Review*, (1987-present)
- Advisory Editor, *Quarterly Journal of Economics and Business* (1991-present)
- Advisory Editor, *Journal of Air Transport Management* (1994-present)
- Referee for the following academic journals:
 - Air Policy and Management
 - American Economic Review
 - Bell/Rand Journal of Economics
 - Canadian Journal of Economics
 - Canadian Public Policy
 - Economic Development and Cultural Change
 - International Journal of Transportation Economics
 - Journal of Air Transport Management
 - Journal of Econometrics
 - Journal of Economic Education
 - Journal of Industrial Economics
 - Journal of Political Economy
 - Journal of Public Economics
 - Journal of the Transportation Research Forum
 - Logistics and Transportation Review
 - Managerial and Decision Economics
 - Papers of the Regional Science Association
 - Quarterly Journal of Business and Economics
 - Quarterly Review of Economics and Business
 - Social Science and Humanities Research Council of Canada
 - Transport Reviews
 - Transportation Research
 - Water Resources Research
- Reviewer for following publishers:

- MIT Press
- North Holland Publishers
- Transport Research Centre, Australia
- Irwin Books
- McGraw Hill
- Reviewer for the following funding agencies:
 - Earhart Foundation
 - National Research Council/Transportation Research Board
 - Natural Sciences and Engineering Research Council of Canada
 - Social Science and Humanities Research Council of Canada
- Referee for World Conference on Transportation Research
- Reviewer of tenure and promotion cases at other universities
- Expert Testimony submitted to:
 - Australian Trade Practices Commission
 - Canadian Competition Tribunal
 - Canadian House of Commons Standing Committee on Transport
 - Canadian Labour Relations Board
 - Canadian National Transportation Agency
 - Commission of Inquiry on Canadian University Education
 - Federal Court of Canada
 - New Zealand Commerce Commission
 - Private Labour Arbitration Hearings
 - Royal Commission on Passenger Transportation
 - South African Civil Aviation Administration
 - U.S. Interstate Commerce Commission
- (I have never been rejected as an expert witness by a tribunal, court or government agency)
- Numerous interviews to radio, television and print journalists
(long term average of 40 per year)
- Invited Presentations made to
 - Airports Council International – North America
 - Airports Council International - Pacific
 - Asia Pacific Foundation
 - Association of Canadian Travel Agents (BC)
 - Association of Canadian Travel Agents (National)
 - Association of Canadian Travel Executives
 - Association of Professional Economists
 - Australian Bureau of Transport and Communications Economics
 - Alliance of Canadian Travel Agents
 - BC Airports Workshop
 - BC Aviation Council
 - BC Law Association
 - Canadian Airlines International
 - Canadian Regional Airlines
 - Canadian Airlines International/Lufthansa
 - Canadian Business Travel Association
 - Chartered Accountants
 - Council of Canadian Airline Employees
 - Financial Executives Institute
 - International Air Transport Association
 - Pacific Economic Cooperation Council
 - Washington State Air Transport Committee
 - Vancouver International Airport

North American Avionics Maintenance Conference
Economic Development Association of B.C.
Western Transportation Advisory Council
Stetnor (Telecom Canada)
Vancouver International Airport
Wardair Canada Ltd.
Young Presidents Organization

Visiting Lectures at Other Universities

Northwestern University
Ohio State University – Distinguished Lecturer Series
Pennsylvania State University
Simon Fraser University
University of Alberta
University of Calgary
University of Oregon
University of Toronto
University of Western Ontario
University of Wisconsin
Washington State University
Wilfred Laurier University

Short Course Instruction at Other Universities

Shanghai Jiaotong University
Sian Jiaotong University
Nankai University
Universite Canadienne en France

List of Abbreviations

ACCC: Australia Consumer and Competition Commission

ARC: Airlines Report Corp. (U.S.)

BSP: Billing and Settlement Plan

IASC: International Air Services Commission

IATA: International Air Transport Association

IATAN: International Air Travel Agent Network (U.S.)

