

ALLISON JAMES TAYLOR

Professor, School of Business, Queen's University

Degrees

1976 Ph.D. (Decision Sciences) Stanford University
1969 MBA Queen's University at Kingston
1964 B.Sc. (Math and Physics) Royal Military College of Canada

Positions Held

1994 - present Professor, School of Business, Queen's University.
1983 - 1994 Associate Professor School of Business, Queen's University.
1977 - 1983 Assistant Professor School of Business, Queen's University.
1976 - 1977 Assistant Professor, Faculty of Commerce, McMaster University.
1970 - 1972 Lecturer, School of Business, Queen's University.
1969 - 1970 Corporate Analyst, Imperial Oil of Canada, Ltd.
1968 - 1969 Lecturer, St. Lawrence College, Kingston.
1964 - 1967 Communications Officer, Canadian Armed Forces.

Scholarly and Professional Activities

2001 Visiting Professor, International Management Program, IESEG, Lille, France.
1998 Consultant, Inter-American Development Bank.
1995 Visiting Scholar, University of Manchester Inst. Of Science and Technology.
1995 Invited Distinguished Scholar, Helsinki.
1992 Visiting Scholar, University of British Columbia.
1984 - 1985 Visiting Scholar, London School of Economics.
1983 Academic Consultant to the Federal University of Paraiba, Brazil.
(CIDA Cooperative Program).
1981 - 1991 Treasurer and Board Member, *INFOR*.
1977 - present Member, CORS and TIMS.

Courses Taught

Undergraduate: Mathematical Models, Finance, Statistics, Operations Research
MBA: Statistics, Operations Research, Decision Analysis
PhD: Stochastic Processes, Research Methodology, Multivariate Statistics
EMBA: Quantitative Methods

Graduate Supervision

Master's Theses: 2
MA Thesis Examining Committees: 7 (Math, Econ, Mining)
PhD Dissertation Committees: 6
PhD Thesis Examining Committees: 8

Publications

Books

Taylor, A.J. (2000). Business Decision Models for Executive MBAs, School of Business, Second Draft.

Petersen, E.R., & Taylor, A.J. (1993). PROPS⁺: Probabilistic and Optimization Spreadsheets, manuscript and software, Addison-Wesley, Reading, Mass.

Petersen, E.R., & Taylor, A.J. (1988). PROPS: Probabilistic Optimizing Spreadsheets, manuscript and software, Alwington Press, Kingston.

Refereed Journals

Taylor, A.J. (2003). Excel Essentials for Business Decisions CD published by Duxbury Press.

Taylor, A.J. & Petersen, E.R. (2001). An Investment Planning Model for a New North-Central Railway in Brazil, *Transportation Research Part A: Policy and Practice*, Vol. 35 (9) 847-862.

Oum, T.H. & Taylor, A.J. (1995). "Emerging Patterns of the Intercontinental Air Linkages and Implications for International Route Allocation Policy." *Transportation Journal*, Vol 34, No 4: 5-27.

Oum, T.H., Taylor, A.J. & Zhang, A. (1993). "Strategic Airline Policy in the Globalization of Airline Networks." *Transportation Journal*, Vol 32, No 3: 14-30.

Petersen, E.R. & Taylor, A.J. (1990). "Probabilistic Optimization Spreadsheets: PROPS." *OR Letters*, Vol 9, No 4: 271-274.

Petersen, E.R., & Taylor, A.J. (1989). "A Cost Model of the Canadian Railways." *INFOR*, Vol 27, No 1: 36-47.

Petersen, E.R., & Taylor, A.J. (1988). "An Optimal Scheduling System for the Welland Canal." *Transportation Science*, Vol 22, No 3: 173-188.

Petersen, E.R., & Taylor, A.J. (1987). "Design of a Single-Track Rail Line for High-Speed Trains." *Transportation Research-A*, Vol 21A, No 1: 47-576.

Oum, T.H., Taylor, A.J., & Zhang, Y. (1986). "Railway Running Rights: Traffic Allocation, Economic Efficiency, and Cost Sharing Aspects." *Transportation Research Forum*, pp. 92-97.

Petersen, E.R., Martland, C.D., & Taylor, A.J. (1985). "An Introduction to Computer Assisted Train Dispatch." *Journal of Advanced Transportation*, Nov-Dec 1985.

Gordon, J.R.M., Richardson, P.R., & Taylor, A.J. (1985). "A Strategic Approach to Evaluating Manufacturing Performance." *Interfaces*, Vol 15, No 6: 15-27.

Petersen, E.R., & Taylor, A.J. (1983). "Line Block Prevention in Rail Line Simulation and Dispatch Models." *INFOR*, Vol 21, No 1: 41-53.

Harrison, J. M., Taylor, A.J. & Sellke, R. (1983). "Impulse Control of Brownian Motion." *Mathematics of OR*, Vol 8, No 3: 454-466.

Petersen, E.R., & Taylor, A.J. (1982). "A Structured Model for Rail Line Simulation and Optimization." *Transportation Science*, Vol 16, No 2: 192-206.

Harrison, J.M., & Taylor, A.J. (1975). "The Approximate Ruin Function for a Risk Process with Compounding Assets." *Scandinavian Actuarial Journal*, pp. 240-247.

Harrison, J.M., & Taylor, A.J. (1975). "Optimal Control of a Brownian Storage System." *Stochastic Processes and their Applications*, Vol 6, No 2: 179-194.

Reports

Taylor, A.J. (1998). Barbados: Tax Administration And Public Expenditure Management Program – Five Evaluation Reports, Inter-American Development Bank.

Taylor, A.J. (1995). The S.B. Roman Scheduling Model: Instruction Manual, Essroc Canada.

Taylor, A.J. (1993). A Queueing Model for Predicting Landborder Waiting Times, Program Evaluation Division, Audit and Evaluation Branch, Customs and Excise, Revenue Canada.

Oum, T.H., Taylor, A.J. & Zhang, A. (1992). Canadian Aviation at the Crossroads: Policy Choices for the New Global Environment, Industry Report, Air Canada.

Taylor, A.J. (1992). The Mathematical Probability of Marine Container Narcotics Interception with Targeting, Confidential Report, Audit and Evaluation Branch, Customs and Excise, Revenue Canada.

Schwier, C. & Taylor, A.J. (1990). The Rail Network in Maritime Canada: Prospects for Rationalization, Canadian Institute of Guided Ground Transport, Report No 90-13.

Petersen, E. R. & Taylor, A.J. (1989). Traffic on the Northland Railroad, Canadian Institute of Guided Ground Transport Report No 89-14.

Gordon, J.R.M. and Richardson, P. & Taylor, A.J. (1983). Determining the Role of Manufacturing in Canadian Electronics Firms, Technological Innovation Studies Program, Report #67, Office of Industrial Innovation.

Taylor, A.J. (1981). User's Manual for the Petersen-Taylor Rail Line Analyzer, VIA Rail.

Petersen, E. R. & Taylor, A.J. (1981). Determination of Track Configuration for High Speed Passenger Operations, Canadian Institute of Guided Ground Transport Report No 81-20.

Conference Papers

Taylor, A.J. (2000). "Excel for Business Decisions: a CD ROM tutorial", Queen's School of Business, March 2000.

Taylor, A.J. (1999). "The Stephen B. Roman, a case study." Published in P. Bell, Management Science/Operational Research: A Strategic Perspective, South-Western Press.

Oum, T.H. (1986). "A Comparison of Freight Demand Models using Canadian Inter-Regional Flow Data." Presented at World Transportation Research Forum, Vancouver, and B.C.

Taylor, A.J. (1982). "Track Configuration for a High Speed Rail Line." Presented at ORSA Winter Simulation Conference.

Scott, W.R. & Taylor, A.J. (1981). "A Model of the Social Value of Audited Financial Statement Information." Presented at ASAC Conference.

Richardson, P.R. & Taylor, A.J. (1981). "Measuring Manufacturing Performance in the Canadian Electronics Industry." Presented at ASAC Conference.

Working Papers

"Qtrain: A Comprehensive Railway Analysis System", School of Business Working Paper Number 00-05, May 2000.

Petersen, E.R. & Taylor, A.J. (June 1999). "An Investment Planning Model for a New North-South Railway in Brazil." Queen's School of Business Working Paper Number 99-05.

Taylor, A.J. (Jan. 1999). "Measuring Profitability in Resource Extraction Industries." Queen's School of Business Working Paper Number 99-01.

Taylor, A.J. (Jan. 1993). "The Probability of Detecting Narcotics in Containers." Queen's School of Business Working Paper Number 93-9, (Restricted).

Taylor, A.J. (Dec. 1993). "A Queueing Model of Land Port Delays for Customs and Excise Clearance." Queen's School of Business Working Paper Number 93-10.

Oum, T.H., Taylor, A.J. & Zhang, Y. (1985). "An Economic Model of Railway Running Rights." Working Paper No.1143, Faculty of Commerce, University of British Columbia.

Updated December 2002