

CURRICULUM VITAE

NAME: Frank MILNE

PLACE OF BIRTH: Bendigo, Australia

DATE OF BIRTH: November 16, 1946

CITIZENSHIP: Australian
Canadian (From June 2006).

MARITAL STATUS: Married, two children (James: born 13 July 1973), (Christopher: born 17 July 1978)

CURRENT POSITION: 1. Bank of Montreal Professor of Economics and Finance
Economics Department
Queen's University
Kingston, Ontario
CANADA K7L 3N6
Phone (613) 545-6494
Fax (613) 545-6668
email: milnef@qed.econ.queensu.ca

2. Special Advisor to the Bank of Canada: September 2008 – June 2009.

HOME ADDRESS: 196 Churchill Crescent.
Kingston, Ontario, K7L 4N2
Canada
Phone: (613) 545 0431

EDUCATION: Australian National University, Ph.D., 1975
Monash University, M.Ec., 1971
Monash University, B.Ec., (Hons.), 1969

PRIOR EXPERIENCE: Sept. 1975 - Aug. 1977 Visiting Assistant Professor of
Finance and Economics
Graduate School of Management
University of Rochester
ROCHESTER, NEW YORK

Aug. 1977 - June 1991 Reader
Department of Economics
Faculty of Economics
Australian National University

CANBERRA ACT 2600

July 1991- June 2000

Professor
Economics Department
Queen's University
Kingston, Ontario
CANADA, K7L 3N6

LEAVE: Jan-June 2009: Special Advisor to the Bank of Canada (full time).

LEAVE: Jan-June 2006:

Erskine Fellow, Economics Dept., University of Canterbury, New Zealand.

Dept of Economics, University of Exeter, UK.

I taught an intensive one week course in Risk Management at the Bank of England, London in the summer 2006.

LEAVE: Jan-June 2002:

Visited and taught PhD course in Continuous Time Finance, Finance Dept. University of Melbourne,

Visited Economics Dept, New York University;

Economics Dept. University of Birmingham;

Economics Dept, University of Heidelberg.

LEAVE:1997- 1998

Visited for short periods at:

Institute of Advanced Studies, Vienna;

Mathematics Dept, Trieste University;

Economics Dept, Birmingham University;

University of Chicago Business School;

Graduate School of Industrial Administration Carnegie Mellon University;

Graduate School of Management, University of Melbourne.

Visit: March 2003

University of Paris, Dauphine. Taught a PhD course in Asset Pricing Theory

Seminar at University of Paris, Sorbonne

MAJOR ADMINISTRATIVE POSITIONS (QUEEN'S)

Graduate Chairman - Queen's Economics Dept. 1993-1995

Alumni Fundraising for QED June 2003-

QED MA Placement Officer 2001-.

EDITORIAL BOARDS

Annals of Finance (Since March 2004)

Mathematical Finance (Since January 1991)

Council of the Bachelier Finance Society – coopted February 2001 until December 2001

Economic Record: 1989 – 2008.

CONFERENCE ADMINISTRATION

Programme Committee member Econometric Society World Congress, Barcelona, August 1990

Programme Committee member, Western Finance Meetings, June 1991.

Programme Committee member Derivative Securities Symposium, Queen's University 1992 –6

John Deutsch Institute a conference, “Current Directions in Financial Regulation”, May 13-14, 2004 in Toronto (co-organiser with Edwin Neave.)

Co-organiser with Fatma Saryal: “Queen’s Conference on Behavioral Finance”, March, 2010

CONSULTING

I have acted as a consultant for politicians in Australia, and with various Federal government departments in Australia and Canada. I have consulted at the Bank of Canada and the Bank of England. I have acted as a consultant at various levels with private sector banks on risk management issues.

INVITED TALKS AND CONFERENCES (SELECTED):

Sixth International Conference on Current Trends in Economics, Greece. July 2003.

Invited Speaker at the Quantitative Methods in Finance 2004 Conference, Sydney Australia. “The Trader’s Dilemma: Trading Strategies and Endogenous Pricing in an Illiquid Market”.

Invited Attendee, National Bureau of Economic Research, “Asset Pricing with Imperfect Trading,” Boston, May 2005.

Invited Speaker at the Daiwa Workshop on Quantitative Finance, Tokyo- Kyoto, July 2005. “The Trader’s Dilemma: Trading Strategies and Endogenous Pricing in an Illiquid Market”.

World Congress of the Econometric Society, London, August 2005, “Market Distortions and Corporate Governance”.

“Liquidity and Asset Trading”, seminar at the Reserve Bank of New Zealand, March, 2006

“Theory of the Firm, Non-profits and Universities”, seminar at the Economics Dept. University of Canterbury, NZ, April 2006.

Xing Jin and Frank Milne “Taxation and Transaction Costs in a General Equilibrium Asset Economy”, delivered as an invited paper at a special conference in Mathematical Finance honoring Professor Dilip Madan at the Norbert Wiener Center, Mathematics Dept, University of Maryland, September, 2006.

Invited Keynote speaker, Australasian Economic Theory Workshop, 15th-16th February. Australian National University, Canberra. I was invited as a founder of the Workshop and to celebrate the 25 annual conference.

Seminar at Quant Finance Workshop Boston University, April 2007, “The Role of Large Players in a Dynamic Currency Attack Game”.

C.D. Howe Conference on the Credit Crisis. December 2007.

Since the onset of the Crisis I have given several presentations at Canadian Universities and Conferences.

COURSES TAUGHT, OR TO BE TAUGHT IN 2007:

Microeconomic Theory (From Basic Principles to Graduates)
Second year PhD Workshop in MicroEconomics (topics change from year to year).
General Equilibrium Theory (Grad)
Applied Game Theory (Fourth Year U.Grad)
Financial Economic Theory (Grad)
Economics of Uncertainty and Information (Grad)
Financial Intermediation and Banking Theory (Grad)
Financial Risk Management (Grad)
Theory of Asset Pricing (Grad)
Financial Derivatives (Grad)
Corporate Finance(Grad)
Investments(U.Grad)

GRADUATE STUDENT SUPERVISION:

I have supervised and continue supervise approx 2-3 PhD students a year, either as a principal supervisor or as a committee member for the Economics Dept or School of Business.

I supervise approx. 2-3 MA essays a year and the occasional 4th year thesis.

RESEARCH

Research Grants:

I have held SSHRC research grants continuously since 1992, both as a primary investigator and as co-investigator..

Publications:

Frank Milne, "Keynes, Harrod and the Fixprice Method", *The Economic Record*, June 1972.

Frank Milne, "Corporate Investment and Finance Theory in Competitive Equilibrium",*The Economic Record*, December 1974.

Frank Milne, "Choice over Asset Economies: Default Risk and Corporate Leverage", *Journal of Financial Economics*, 2 (1975).

Frank Milne, "Default Risk in a General Equilibrium Asset Economy with Incomplete Markets", *International Economic Review*, October 1976.

Frank Milne, "The Adjustment Cost Problem with Jumps in the State Variable", in J.D. Pitchford and S.J. Turnovsky, (eds.), *Applications of Optimal Control in Economic Analysis*, North Holland, B.C., 1977.

Frank Milne, "Consumer Preferences, Linear Demand Functions and Aggregation in Competitive Asset Markets", *Review of Economic Studies*, Vol. XLVI (3) July 1979.

Frank Milne, "Borrowing, Short Sales, Consumer Default and the Creation of New Assets", *Journal of Financial and Quantitative Analysis*, June 1979.

Frank Milne, "Private Markets and Production Decisions", *Economics Letters*, 4, 1979, pp.201-209.

Frank Milne, "Short Selling, Default Risk, and the Existence of Equilibrium in a Securities Model", *International Economic Review*, June 1980.

Frank Milne and Clifford W. Smith, "Capital Asset Pricing with Proportional Transaction Costs", *Journal of Financial and Quantitative Analysis*, Vol XV, No.2, June 1980.

Frank Milne, "Induced Preferences and the Theory of the Consumer", *Journal of Economic Theory*, April 1981.

Frank Milne and Ron Weber, "Regulation and the Auditing Profession: The Metcalf Sub-Committee's Recommendations Re-examined", *Accounting and Business Research*, Summer 1981. Re-Printed in *The Accountants Digest*, Vol XLVII, No.2, December 1981.

Frank Milne, "The Firm's Objective Function as a Collective Choice Problem", *Public Choice*, 37, pp.473-486, 1981.

Frank Milne, Comment on "Price Elasticities for Private Medical Care Services in Australia", by J. Richardson and R. Harvey. (Health Economists' Group 1982 Conference, (ANU), in *Economics and Health 1982: The Proceedings of the Fourth Australian Conference of Health Economists*, Health Economics Research Unit, Technical Paper 7, 1983.

Frank Milne and H.M. Shefrin, "Welfare Losses Arising from Increased Public Information, and/or the Opening of New Securities Markets: Examples of the General Theory of the Second Best", in Bernt P. Stigum and Fred Wenstop (eds.), *Foundations of Utility and Risk Theory with Applications*, D. Reidel Publishing Company, Holland 1983.

Frank Milne and R. Weber, "On the Economics of Designing Generalized Software", *Communications of the Association for Computing Machinery*, August 1983.

Colin Cameron, Frank Milne, John Piggott and Pravin Trivedi, "The Demand for Health Insurance and Health Care in Australia - A Progress Report", *Economics and Health 1983: The Proceeding of*

the Fifth Australian Conference of Health Economists, Health Economics Research Unit, Technical Paper 8, 1984.

Frank Milne and H.M. Shefrin, "Clarifying some Misconceptions about Stock-Market Economies", *Quarterly Journal of Economics*, August 1984.

Frank Milne, "The Induced Preference Approach to Arbitrage and Diversification Arguments in Finance", *European Economic Review*, 31, 1987, pp. 235-245.

Frank Milne and H.M. Shefrin, "Information and Securities: Pareto Dominance and the Second Best", *Journal of Economic Theory*, Vol. 43 No. 2, December 1987, pp. 314-328.

Frank Milne and H.M. Shefrin, "Ex-Post Efficiency and Ex-Post Welfare: Some Fundamental Considerations", *Economica*, February 1988, pp. 63-79.

Colin Cameron, Pravin Trivedi, Frank Milne and John Piggott, "A Microeconomic Model of the Demand for Health Care and Insurance in Australia", *Review of Economic Studies*, Vol. LV(1), No. 181, January 1988, pp. 85-106.

Frank Milne, "Arbitrage and Diversification in a General Equilibrium Asset Economy", *Econometrica*, Vol. 56 No. 4, July 1988, pp. 815-840.

Richard Cornes and Frank Milne, "A Simple Analysis of Mutually Disadvantageous Trade", *Economic Studies Quarterly*, Vol. 40 No. 2, June 1989, pp. 122-134.

Dilip Madan, Frank Milne and Hersh Shefrin, "The Multinomial Option Pricing Model and its Brownian and Poisson Limits", *The Review of Financial Studies*, December 1989, pp. 251-265.

Frank Milne, "Merit Goods: Why Benevolent Paternalists Require Theories of Consumer Choice", in G. Brennan and C. Walsh (eds.) *Individualism, Rationality and Public Policy*, C.R.F.F.R. Canberra 1990, pp. 199-205.

Stuart Turnbull and Frank Milne, "A Simple Approach to Interest Rate Option Pricing", *Review of Financial Studies*, December 1991, pp. 87-120.

Dilip Madan and Frank Milne, "Option Pricing with V.G. Martingale Components", *Mathematical Finance*, October 1991, pp. 39-56.

Chris Jones and Frank Milne, "Tax Arbitrage Existence of Equilibrium and Bounded Tax Rebates", *Mathematical Finance*, Vol. 2 No. 3, July 1992, pp. 189-196.

J. Eichberger, H. Haller and F. Milne, "Naive Bayesian Learning in 2 x 2 Matrix Games", *Journal of Economic Behaviour and Organization*, Vol. 22 No. 1, September 1993, pp. 69-90.

Dilip Madan and Frank Milne, "Contingent Claims Valued and Hedged by Pricing and Investing in a Basis." *Mathematical Finance*, Vol 4 No.3, July 1994, pp.223-246.

Frank Milne and E. Neave, "Dominance Relations on a Standardized Domain." *Management Science*, Vol 40, No.10, October 1994, pp. 1343-1352.

David Kelsey and Frank Milne, "The Arbitrage Pricing Theorem with Non-Expected Utility Preferences", *Journal of Economic Theory* Vol 65, No.2. April 1995. pp.557-574.

David Kelsey and Frank Milne, "The Existence of Equilibrium in Incomplete Markets and the Objective Function of the Firm", *Journal of Mathematical Economics*, 25, 1996, pp.229-245.

David Kelsey and Frank Milne, "Induced Preferences, Dynamic Consistency and Dutch Books" *Economica*, 64, 1997, pp.471-81.

David Kelsey and Frank Milne, "Induced Preferences, and Decision-Making Under Risk and Uncertainty," Nau, Gronn and Machina (eds.) *Economic and Environmental Risk and Uncertainty: New Models and Methods*, Kluwer, Dordrecht, The Netherlands, 1997 pp207-218.

Frank Milne, Commentary on Bolton and von Thadden, "Liquidity and Control: A Dynamic Theory of Corporate Ownership Structure" *Journal of Institutional and Theoretical Economics*, Vol 154, No.1, March, 1998.

David Kelsey and Frank Milne, "Induced Preferences, Non-Additive Probabilities and Multiple Priors", *International Economic Review*. Vol 40, No.2, May 1999, pp.455- 77.

Frank Milne and Xing Jin, "The Existence of Equilibrium in a Financial Market With Transaction Costs", in **Quantitative Analysis in Financial Markets: Collected Papers of the New York University Mathematical Finance Seminar** ed. Marco Avellaneda, Jeffrey D. Phillips, World Scientific Pub Co., 1999.

Frank Milne and Klaus Ritzberger, "Strategic Pricing of Equity Issues", *Economic Theory*, 20, 2002, pp. 271-294.

Dilip Madan, Frank Milne and Robert Elliott, "Incomplete Diversification and Asset Pricing" in K. Sandmann and Pilipp Schonbucher (eds.) **Advances in Finance and Statistics**, Springer, Berlin, 2002.

Frank Milne and David Kelsey, "Externalities, Monopoly and the Objective Function of the Firm", *Economic Theory*, 29, pp. 565-589, 2006

Xing Jin and Frank Milne "Taxation and Transaction Costs in a General Equilibrium Asset Economy", in Michael Fu, Robert Jarrow, Ju-Yi Yen and Robert Elliott (editors), *Advances in*

Mathematical Finance (Applied and Harmonic Analysis) Birkhauser, Boston, April 2007. QED WP No. 1111

David Kelsey and Frank Milne, “Imperfect Competition and Corporate Governance,” *Journal of Public Economic Theory*, 10 (6), 2008, pp. 1115-1141.

Frank Milne, “The Complexities of Financial Risk Management and Systemic Risks”, *Bank of Canada Review*, Summer, 2009. pp.15-29.

BOOKS PUBLISHED:

Frank Milne, *Finance Theory and Asset Pricing*, Oxford University Press, 1995.
128 pages.

Frank Milne, *Finance Theory and Asset Pricing*, Oxford University Press, Second Edition, 2003.
239 pages.

Frank Milne and Edwin Neave (ed.) *Current Directions in Financial Regulation.*, John Deutsch Policy Forum Series: Queen’s University, 2005.

PAPERS FORTHCOMING

PAPERS SUBMITTED, OR IN PROCESS OF SUBMISSION, TO JOURNALS

David Kelsey and Frank Milne, “Takeovers and Cooperatives”, (2006) QED WP No.1113.
Revised and Resubmitted August 2009 to *Journal of Economics*.

Anita Anand, Frank Milne and Lynnette Purda, “Voluntary vs. Mandatory Corporate Governance”, (2006). QED WP No.1112 submitted *American Law and Economics Review* October 2007, Under Review, second round, 2009.

Anita Anand, Frank Milne and Lynnette Purda, “Do Independent Boards Behave Differently? Examining the Voluntary Adoption of Corporate Governance Mechanisms”, *Corporate Governance: an International Review*, Under Review, second round, 2009.

UNPUBLISHED PAPERS

Frank Milne and E. Neave, "A General Equilibrium Financial Asset Economy with transaction costs and trading constraints" 2003.

Dan Liang and Frank Milne, "The Trader's Dilemma: Trading Strategies and Endogenous Pricing in an Illiquid Market", December 2005.

WORK IN PROGRESS:

Prasanna Gai, Frank Milne and James Thompson, "Network Games, Banking Systems and Systemic Risks", work in progress.

Mei Li and Frank Milne, "A Large Trader in Bubbles and Crashes: An Application to Currency Attacks", December 2009.

Frank Milne and James Thompson, "Liquidity Attacks and the Role of Central Banking", February 2009.

Frank Milne and Marie-Louise Viero, "Theoretical model of universities, faculty and specialisation", 2008 (work in progress.)

Douglas Gale, Frank Milne and James Thompson, "An Efficient Market for Information", November 2008 draft.

PUBLIC POLICY CONTRIBUTIONS:

Frank Milne, "Regulation of the Professions: An Economic Analysis", *Proceedings of the R.S. Gynther Conference*, University of Queensland, October 1979.

Frank Milne, "Arthritic Academia: The Problems of Government Universities", in *Occupational Regulation and the Public Interest*, eds. R.P. Albon and G.J. Lindsay, Centre of Independent Studies, Readings No. 4, Sydney 1984.

Ian Harper and Frank Milne, "In Pursuit of Excellence for Australian Universities", C.I.S. Policy Report, Vol II No. 3, August 1986.

John Logan, Frank Milne and R.R. Officer, "Competition Policy in Regulated Markets", in Michael James (ed.) *Regulating for Competition*, C.I.S., 1989, pp. 113-139.

Frank Milne, "Lessons from Australian Academic Experience", Conference Volume presented to Professor David Smith, retiring from Queen's University, 1996.

Frank Milne and E. Neave, "Revising Canada's Financial Regulation", C.D. Howe Institute, Commentary No. 101, Feb 1998. (Widely cited in the late 90's policy debate in Canada)

Frank Milne, "Wrap-up discussion" in **Information in Financial Asset Prices**, Conference Proceedings, Bank of Canada, Ottawa, May 1998, pp. 398-393.

Frank Milne, "The Australian Universities: A Study in Public Policy Failure", QED Working Paper Number 1080, 2001.

Frank Milne, "Anatomy of the Credit Crisis: The Role of Faulty Risk Management Systems," C.D. Howe Institute Commentary, No. 269, July 2008.

Frank Milne, "Credit Crises, Risk Management Systems and Liquidity Modeling", John Deutsch Institute, QED Working Paper Number 1, 2008.

SELECTED PUBLIC POLICY CONFERENCE PRESENTATIONS:

Frank Milne, "Risk Management Systems, Systemic Risk and the Credit Crisis", C.D. Howe Institute in Toronto December 14, 2007. My two discussants were The Deputy Governor of the Bank of Canada, and the Head of Research at the Canadian Office of Superintendent of Financial Institutions

Since the onset of the Financial Crisis I have given presentations related to the Crisis. For example, I was a discussant and presenter in three sessions of the Canadian Economic Association meetings Toronto, 2009; Wilfred Laurier University, May 2009, and Carlton University, January, 2009; Field's Institute, Univ of Toronto, November 2009; C.D. Howe Institute September and December 2009.

BOOK REVIEWS

S. LeRoy and J. Werner, *Principles of Financial Economics*, *Journal of Economic Literature*, March 2003, Vol XL1, No.1.

V. Bohm, *Disequilibrium and Macroeconomics*, *Economic Record*, December, 1992.

"*Review of Six Finance Theory Books*", *Economic Record*, December 1990.

G. Debreu, *Mathematical Economics: Twenty Papers*, C.U.P.: *Economic Record*, September 1988, pp. 220-1.

REFEREEING (SELECTED):

American Economic Review

Econometrica

Review of Economic Studies

Review of Financial Studies

Annals of Finance

Journal of Finance
Journal of Economic Theory
Economic Journal
International Economic Review
Management Science
Canadian Journal of Economics
Mathematical Finance
Journal of Financial and Quantitative Analysis
Journal of Money, Credit and Banking
Economic Record
European Financial Review
Journal of the European Economic Association
Annals of Finance

REFEREES

Professor Jurgen Eichberger
Wirtschaftstheorie I
Alfred-Weber-Institut für Wirtschaftswissenschaften
Grabengasse 14
69117 Heidelberg
Germany

Professor Stephen J. Brown,
New York University
Stern School of Business
New York
U.S.A.

Professor Douglas Gale
Dept. of Economics
New York University
269 Mercer St.
New York
U.S.A