

Department of Mathematical & Statistical Sciences

COLLOQUIUM

“Financial Modeling in Practice”

Dr. Hong Xie

Manulife Financial
Toronto, Ontario

Friday, October 26th, 2007

3:30 p.m. in CAB 369

Abstract:

To ensure a sound financial system and capital markets, regulators require more and more transparencies in financial risk taking businesses and demand Financial Institutions to quantify risks and measure risk based capitals. In order to meet the requirements, Financial Institutions recruit many highly trained quantitative analysts to perform financial (stochastic) modeling for valuations, risk measurements, and capital determinations. This presentation will address financial modeling from a practitioner’s point of view. The talk will also discuss challenges facing Financial Institutions in model implementations. At the end, the talk will briefly discuss job prospects for students who are interested in a career in financial industry.

Dr. H. Xie, a PhD graduate from our department, was a director of the Bank of Montreal from 1995-2006, working on Model Risk and Vetting and Derivative Counterparty Risk, and Enterprise Risk and Portfolio management. He is now Assistant Vice President at Manulife working on Quantitative Analysis and Modeling, responsible for (1) stochastic asset index modeling, model parameters selection and stochastic scenario productions for segregated funds (or VA) reserve valuation, pricing and capitals; (2) model validations for models used for market risk measures and management across the company. Major projects include:

- Variable Annuity Hedging Program validation
- Stochastic modeling for Segregated Fund Assets

***For those attending the Colloquium,
a reception will be held at 4:30 pm in CAB 649.***