New York, NY

April 25-26, 2003 13th Annual **Derivatives Securities and Risk Management Conference**

KEYNOTE SPEAKER:

Thomas A. Russo Lehman Brothers Vice Chairman / Chief Legal Officer

Thomas A. Russo is a Vice Chairman of Lehman Brothers Inc. and the Firm's Chief Legal Officer. He is head of the Firm's Corporate Advisory Division with responsibility for Legal, Compliance, Internal Audit, Government Relations, and the Documentation Group. In addition, he is Chairman of the Firm's New Products Committee and Operating Exposures Committee. Mr. Russo also serves as Counsel to Lehman Brothers' Executive Committee, and is a member of its Operating Committee.

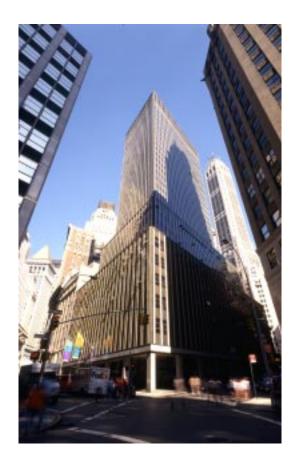
Prior to joining Lehman Brothers in January, 1993, Mr. Russo was a partner at the Wall Street law firm of Cadwalader, Wickersham & Taft and a member of its Management Committee where he specialized in SEC enforcement and broker-dealer operations, CFTC enforcement and regulation, derivative, financial and general corporate law. Mr. Russo also served as Advisor to the Brady Commission in 1987. He was listed in the National Law Journal's survey as one of the "100 Most Influential Lawyers in America", each time it was published.

From 1975 to 1977, Mr. Russo was the Deputy General Counsel of the Commodity Futures Trading Commission, then became the first Director of its Division of Trading and Markets. From 1971-75 he was an associate at Cadwalader, Wickersham & Taft. Mr. Russo also worked as an attorney in the Division of Market Regulation of the SEC (1969-71).

CONFERENCE LEAD-OFF SPEAKER:

Stephen A. Ross Massachusetts Institute of Technology Franco Modigliani Professor of Finance & Economics

Stephen A. Ross is the author of more than 75 articles in economics and finance, and the coauthor of an introductory textbook in finance. He received his B.S. with honors from CalTech in 1965 where he majored in physics, and his Ph.D. in economics from Harvard in 1970. He is probably best known for having invented the Arbitrage Pricing Theory and the Theory of Agency, and as the co-discoverer of risk neutral pricing and of the binomial model for pricing derivatives. Models developed by him and coworkers, including term structure models and option pricing models, are now standards for pricing in major securities trading firms. He has been the recipient of numerous prizes and awards including the Graham and Dodd Award for financial writing, the Pomerance Prize for excellence in the area of options research, the University of Chicago's Leo Melamed Prize for the best research by a business school professor and the 1996 IAFE Financial Engineer of the Year Award. A Fellow of the Econometric Society and a member of the American Academy of Arts and Sciences, he currently serves as an Associate Editor of several economics and finance journals and in 1988 was President of the American Finance Association.



Conference Organizers

Peter Carr New York University

Joseph A. Cherian Banc of America Capital Management

> Thomas F. Coleman Cornell Theory Center

Robert A. Jarrow Cornell University

Stuart Turnbull Lehman Brothers, Inc.



Friday, April 25th, 2003

7:30am-8:15am	Registration and Continental Breakfast
8:15am-8:30am	Opening Remarks: Thomas F. Coleman, Cornell University
8:30am-10:00am NO NOISS 3S	SESSION ONE: THEORY Chair: Robert Jarrow
	Compensation, Incentives and the Duality of Risk Aversion and Riskiness
	A Chaotic Approach to Interest Rate Modelling
	Lane P. Hughston, King's College London <i>Co-author:</i> Avraam Rafailidis, King's College London
	 Employee Reload Options: Pricing, Hedging and Optimal Exercise Philip H. Dybvig, Washington University Co-author: Mark Loewenstein, Boston University
10:00am- 10:30am	Coffee Break
10:30am-NOON	SESSION TWO: INTEREST RATE AND CREDIT RISK Chair: Joseph A. Cherian
	Understanding the Role of Recovery in Default Risk Models: Empirical Comparisons
	O C A contract of the second secon
	Black's Model of Interest Rates as Options, Eigenfunction Expansions and Japanese Interest Rates Vadim Linetsky, Northwestern University <i>Co-author:</i> Viatcheslav Gorovoi, Northwestern University
	Vadim Linetsky, Northwestern University <i>Co-author:</i> Viatcheslav Gorovoi, Northwestern University
	An Econometric Model of Credit Spreads with Re-balance, ARCH, and Jump Effects
	Jing-zhi Huang, Penn State University <i>Co-authors:</i> Herman Bierens, Weipeng Kong, Penn State University
NOON-1:30pm	Lunch
1:30pm-3:00pm	SESSION THREE: COMPUTATION Chair: Thomas Coleman
	Robust Numerical Methods for Pricing Options with Jump Diffusion Yann d'Halluin, University of Waterloo Co-authors: Peter Forsyth, K.R. Vetzal, University of Waterloo
	Pricing and Calibration of Convertible Bonds Leif Anderson, Banc of America Securities, LLC
	Total Risk-Minimization Using Monte Carlo Simulation (and Spline Approximations)
	Cristina Patron, Cornell University <i>Co-authors:</i> Thomas F. Coleman, Yuying Li, Cornell University
3:00pm-3:30pm	Coffee Break
3:30pm-5:00pm	SESSION FOUR: OPTIONS Chair: Dilip Madan
	Risk-Neutral Kurtosis, Jumps and Option Pricing: Evidence from 100 Most Actively Traded Firms on the CBOE Charles Cao, Represelyania State University Co. author: Gurdin Bakehi, University of Maryland
	Charles Cao, Pennsylvania State University <i>Co-author:</i> Gurdip Bakshi, University of Maryland
	Hedging Errors under Misspecified Asset Price Processes
	Iliana Anagnou, University of Warwick <i>Co-author:</i> Stewart D. Hodges, University of Warwick
	On The Market Price of Volatility Risk
	Ehud I. Ronn, University of Texas Co-author: James S. Doran, University of Texas
5:00pm-6:00pm	Cocktail Reception
6:00pm-7:30pm	Dinner
	Keynote Speaker: Thomas A. Russo, Lehman Brothers Vice Chairman/Chief Legal Officer
	with an introduction by Stuart Turnbull, Lehman Brothers

Saturday, April 26th, 2003

7:30am-8:30am	Continental Breakfast
	SESSION FIVE: VOLATILITY AND CORRELATION Chair: Peter Carr
	Replicating Power Claims with Options
	Mark A. Cassano, University of Calgary
	Robust Replication of Volatility Derivatives
	Roger Lee, Stanford University Co-author: Peter Carr, New York University
	Asymmetric Global Equity and Bond Correlations
	Robert Engle, New York University Co-authors: Lorenzo Cappiello, European Central Bank, Kevin Sheppard, University of California San Diego
10:00am- 10:30am	Coffee Break
10:30am-NOON	SESSION SIX: COMPUTATION II Chair: Peter Forsyth
	A Weighted Stochastic Mesh Method for Pricing American-Style Derivatives
	× via Monte Carlo Simulation
	Xiaoping Xiong, University of Maryland <i>Co-author:</i> Michael Fu, University of Maryland
	Option Pricing Under a Double Exponential Jump Diffusion Model
	S. G. Kou, Columbia University <i>Co-author:</i> Hui Wang, Brown University
	• Efficient Computation of Hedging Parameters for Discretely Exercisable Options
	Stathis Tompaidis, University of Texas Co-authors: Ron Kaniel, Alexander Zemlianov,
	University of Texas
NOON-12:15pm	Closing Remarks: Stuart Turnbull, Lehman Brothers

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The MathWorks develops and markets tools for creating complex financial models using MATLAB, the leading The MathWorks technical computing environment in industry and academia worldwide. MATLAB is an extensible environment for research and development that offers high performance functions for numerical computation, data analysis, and

visualization. MATLAB offers financial engineers, guantitative engineers, and other financial professionals the ability to guickly build and evaluate their "decision making" applications.



The Samuel Curtis Johnson Graduate School of Management, founded in 1946, combines leading edge intellectual capital with "real time, real world" business practice and is among the top business schools in the United States. The Johnson School is distinguished by a diverse, multinational community working closely within a small, interactive and intensely collaborative environment. The Johnson School offers a wide variety of opportunities for

experiential learning, such as immersion curricula and student-run venture capital and mutual funds. Programs include MBA and doctoral degrees, a twelve-month MBA option for students with advanced degrees in science or engineering, and an executive MBA. The Johnson School is located at the center of Cornell University-the largest of the Ivy League schools and one of the world's top research institutions.



CTC-Manhattan is a showcase for Windows high-performance computing with a special emphasis on computational finance. The facility, located at 55 Broad Street in Manhattan, is a satellite of the Cornell Theory Center (CTC), which is the home of the world's largest Windows high-performance computing cluster complex. At CTC-Manhattan, consultants develop innovative solutions to practical problems in computational and mathematical finance, portfolio optimization, and risk management with a focus on accelerating the development of high-performance systems for commercial and research applications.

Organizing Committee:



Dr. Peter Carr is a visiting professor at the Courant Institute of New York University. Prior to his current position, he headed equity derivative research groups for six years at Banc of America Securities and at Morgan Stanley. His prior academic positions include 4 years as an adjunct professor at Columbia University and 8 years as a finance professor at Cornell University. Since receiving his PhD. in Finance from UCLA in 1989, he has published extensively in both academic and industry-oriented journals. He is currently the treasurer of the Bachelier Finance Society and a practitioner director for the Financial Management Association. He is also an associate editor for 6 academic journals related to mathematical finance and derivatives. He has given numerous talks at both practitioner and academic conferences and was recently selected as *Risk Magazine*'s prestigious ``Quant of the Year'' for 2003.



Dr. Thomas F. Coleman is the Director of the Cornell Theory Center and CTC-Manhattan, a computational finance consulting center in New York City. Also a Cornell Professor of Computer Science and Applied Mathematics, Dr. Coleman's research centers on the design and understanding of practical and efficient numerical algorithms for continuous optimization. His primary interest is in the development of computational methods and tools for large-scale optimization problems with emphasis on applications of computational finance. Specifically, recent work of Dr. Coleman and his colleagues includes a new methodology for computing implied volatility surfaces from option prices, new hedging techniques, a parallel index tracking implementation, new portfolio optimization methods, and the use of parallel computing techniques in computational finance.



Dr. Joseph A. Cherian is the Managing Director of Quantitative Research at Banc of America Capital Management, responsible for managing quantitative research used by Bank of America's primary money-management affiliate. This includes overseeing all proprietary active equity model development and deployment and managing various asset allocation mutual funds. He also manages quantitative asset allocation research used on behalf of the bank's institutional and individual clients. Prior to joining Bank of America in 2000, Joe taught and conducted research in quantitative finance, fixed income and derivatives at the graduate business schools of Cornell University, Boston University and the University of Amsterdam. Joe serves on the advisory boards for the Research Foundation of the Association for Investment Management and Research (AIMR) and SKG Inc. He has been published in various journals. Joe earned his Ph.D. and master's degree in finance from Cornell University and a bachelor's degree in electrical engineering from the Massachusetts Institute of Technology.



Dr. Robert A. Jarrow is the Ronald P. and Susan E. Lynch Professor of Investment Management at the Johnson Graduate School of Management of Cornell University. Professor Jarrow's teaching and research interests involve the study of mathematical finance: derivatives, risk management, investments and asset pricing theory. He is currently engaged in research relating to the pricing of credit derivatives, liquidity risk, and exotic options. A Graduate Faculty representative in four fields: management, economics, operations research and industrial engineering, and applied mathematics, he is also the managing editor of *Mathematical Finance*, a coeditor of *The Journal of Derivatives*, among numerous other finance journals. He was a Mobil scholar in 1993 and a member of the Merrill Lynch Academic Advisory Council in 1994-95. In 1997 he was named IAFE Financial Engineer of the Year in recognition of his many contributions to the field. He is currently an IAFE senior fellow.



Dr. Stuart Turnbull is Senior Vice President, head of quantitative credit research at Lehman Brothers, New York. Prior to joining Lehman Brothers, he was in risk management at the Canadian Imperial Bank of Commerce. In academia, Stuart was the Bank of Montreal Professor of Banking and Finance, Queen's University (Canada), and a Research Fellow, Institute for Policy Analysis (Toronto). A graduate of the Imperial College of Science and Technology (London) and the University of British Columbia, he is the author of *Option Valuation*, and (with Robert A. Jarrow) *Derivative Securities*. He has published over 40 articles in major finance and economic journals, and law and economics journals, as well as many articles in practitioner journals. He is, with Robert Jarrow, author of the J-T model of pricing credit derivatives, which is widely used by financial institutions. He is an associate editor of Mathematical Finance, the Journal of Derivatives, the International Journal of Theoretical and Applied Finance, and has served as an associate editor for the Journal of Finance.

The conference organizers would like to thank Thomas Russo, 13th Annual Derivatives Securities Conference Keynote Speaker, as well as our colleagues Dilip Madan (University of Maryland) and Peter Forsyth (University of Waterloo) for their support and participation as session chairs.