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Advanced Pricing, Hedging & Risk Management Of Credit, Interest Rates, Equity, FX, Commodities, Inflation & Volatility Derivatives For The New Financial Era

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Quantitative Research
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Peter Carr
Head of QFR
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Riccardo Rebonato
Head Of Front-Office Risk
Management & Head Of
Quantitative Analytics, GBM
ROYAL BANK OF SCOTLAND



Jesper Andreasen
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What Makes Global Derivatives The Must-Attend Event For All Leading Quantitative Practitioners ?

- **Learn Cutting Edge Interest Rate, Credit Risk, FX, Equities & Volatility Modelling Techniques in 110+ Sessions.** Gather essential practical and technical "take home" information from the leading players in the industry
- **NEW Reworked Agenda To Deal With Modelling In The Post Crisis World** Discover the practical modelling & implementation techniques that will help you prosper in the new financial climate
- **NEW Special Focus on Commodities** Discover cutting edge techniques & explore the latest opportunities in commodities trading & risk management during our dedicated stream and workshop
- **NEW Focus On Counterparty Credit Risk Modelling** Learn from the masters & make sure you have overcome the challenges of CVA, bilateral PCR & hybrid modelling
- **NEW Algorithmic Trading Summit** Identify and overcome the economic and technical issues impacting algorithmic trading in this special summit led by high frequency finance experts!
- **Hear Insights From 100+ Renowned Quantitative Practitioners & Academics** Learn from Goldman Sachs, Societe Generale, Bank Of America Merrill Lynch, RBS, JP Morgan, Deutsche Bank, BNP Paribas, HSBC & Barclays Capital & many more
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NEW

Algorithmic Trading Summit

17 May 2010

Finding Liquidity, Trading Without Impact, Exploring Dark Pools & Determining The Way Forward For High Frequency Finance

Speakers From

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17 May 2010
LMM-SABR Modelling
A New Paradigm
Led by
Riccardo Rebonato
ROYAL BANK OF SCOTLAND

17 May 2010
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The Financialization
Of Commodity
Markets &
Commodity
Derivatives
Led by
Helyette Geman
BIRKBECK,
UNIVERSITY OF
LONDON

21 May 2010
Counterparty Risk & Credit Modelling
With Lessons From
The Crisis
Led by
Massimo Morini
BANCA IMI

21 May 2010
Interest Rate Modelling
Solid Foundations
To Advanced
Models
Led by
Vladimir Piterberg
BARCLAYS CAPITAL
&
Leif Andersen
BANK OF AMERICA
MERRILL LYNCH

21 May 2010
Volatility & Correlation
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Hotel Concorde La Fayette, Paris

Main Conference: 18-20 May 2010
Summit: 17 May 2010
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The 16th Annual Meeting of

Global Derivatives Trading & Risk Management 2010

The Largest & Most Prestigious Quantitative Finance
Event In The World

Dear Colleague

So, why is it that Global Derivatives and Risk Management has been the leading industry event for the past 16 years? Surely it is because every year, we offer 5 days carefully designed to offer you:

- **In-Depth Coverage Of All Derivatives All Under One Roof In One Week-** credit; interest rates; equity; commodities; inflation; FX; volatility – with a full 5 day programme, 11 separate streams to choose from, 1 brand new summit and 5 full day workshops this programme is the most comprehensive of its kind.
- **The Expertise Of A Speaker Faculty That Boasts Nobel Laureates** (Robert Engle), **Famous Academics** (Emanuel Derman), Chief Economists (Norbert Walter of Deutsche Bank) **And The Most Renowned Quantitative Practitioners In The World** (speakers are joining us from Goldman Sachs, Bank Of America Merrill Lynch, Soc Gen, & Barclays Capital)

Plus, we have a number of new topics and features to reflect the changing world in which the derivatives industry is now operating in:

- **NEW Nobel Laureate Guest Address! Professor Robert Engle, Professor, STERN NYU** will be joining us to discuss global Financial stability and long term risk.
- **NEW Chief Economist Address! Professor Norbert Walter, Chief Economist at Deutsche Bank** and renowned economic commentator will be giving us the outlook at the beginning of this new financial decade.
- **NEW Algorithmic Trading Summit.** Identify and overcome the economic and technical issues impacting algorithmic trading in this special summit led by high frequency finance experts!

I look forward to seeing you in **Paris this May!**

Victoria Chatterton, Senior Conference Producer
Global Derivatives & Risk Management 2010

Connect with me via LinkedIn: www.linkedin.com/in/victoriachatterton

**P.S. Don't forget, if you book before the 12th March 2010
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- For more information about Vladimir & Leif's book, please visit the website address to the left
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TRUSTED PRACTITIONERS RECOMMEND GLOBAL DERIVATIVES!

Global Derivatives is the best quantitative event to attend but don't just take my word for it; please read industry thoughts about the event below:

"The Global Derivatives conference 2009 struck the perfect balance between technical presentations, top-level discussions and industry networking time"
Vladimir Piterbarg, Global Head Of Quantitative Analytics, BARCLAYS CAPITAL

"The perfect event to catch up with the cutting-edge developments and to witness the seeds of future trends in derivatives and risk management"
Bruno Dupire, Quantitative Research, BLOOMBERG

"Congratulations on a successful 2009 conference. There were a lot of interesting presentations and discussions and it was especially useful in the current climate"
Faisal Yousaf, Global Head Of Quantitative Risk & Valuation Group, HSBC

"Global Derivatives was excellent, as always, and the sessions were top class"
Wim Schoutens, Research Professor, CATHOLIC UNIVERSITY OF LEUVEN

"It was great to be a part of the 2009 event – it is a must-attend event and especially so in the current climate"
Jay Caauwe, Director, CBOE FUTURES EXCHANGE

"The Global Derivatives & Risk Management 2009 conference was interesting and stimulating and in particular, I found the practitioner presentations a great help for shedding light on the problems we face in our daily work"
Per Horfelt, Equity Derivative Quantitative Analyst, BARCLAYS CAPITAL

"Global Derivatives was the best event in the field of quantitative finance this year and the one that was able to put the crisis at its core. The level of the speakers allowed the conference to become the place for the most interesting discussion I have heard."
Massimo Morini, Head of Credit Models, BANCA IMI

100 + Top Quants & Traders Speaking...

- Jim Gatheral, Managing Director, BANK OF AMERICA MERRILL LYNCH
- Bruno Dupire, Quantitative Research, BLOOMBERG
- Martin Baxter, Quantitative Analyst, NOMURA
- Rama Cont, Director, Centre for Financial Engineering, COLUMBIA UNIVERSITY
- Ali Hirsu, Head of Analytical Trading Strategy, NATIXIS CASPIAN CAPITAL MANAGEMENT
- Alex Lipton, Global Head of Credit Analytics, BANK OF AMERICA MERRILL LYNCH & Visiting Professor, IMPERIAL COLLEGE
- Mark Henrard, Head of Interest Rate Modelling, DEXIA
- Igor Smimov, Global Head of Flow Research Group, BNP PARIBAS
- Christian Fries, Head Of Model Development, Group Risk Control, DZ BANK
- Joe Holderness, Managing Director, Global Head of Investment Bank Credit Portfolio Group, JPMORGAN CHASE
- Peter Carr, Head Of QFR, BLOOMBERG
- David Shelton, Director, Co-Head Of Credit Derivatives Research, BANK OF AMERICA MERRILL LYNCH
- Youssef Elouerkhaoui, Global Head of Credit Derivatives Quantitative Research, CITI
- Damiano Brigo, Professor, Dept. of Mathematics, IMPERIAL COLLEGE, LONDON
- Arthur Berd, Head Of OTC & Macro Volatility Strategies, CAPITAL FUND MANAGEMENT
- Krag "Buzz" Gregory, Vice President, GOLDMAN SACHS
- Paul B. Stephens, Director and Department Head, CHICAGO BOARD OPTIONS EXCHANGE
- Mike de Vegvar, Managing Director, Exotic Equity Derivatives Trading, UBS
- Arie Boleslawski, Managing Director, SOCIETE GENERALE
- Dariush Mirfendereski, Managing Director, Head of Inflation Linked Trading, UBS INVESTMENT BANK
- Ziggy Jonsson, Partner, ARAM GLOBAL
- Hans-Peter Schöch, Director, Structured Rates Trading, NOMURA
- Chris Hunter, Head Of Emerging Market Interest Rate Options & Exotics Trading Europe, BNP PARIBAS
- Alexandre Antonov, Senior Vice President, Quantitative Research, NUMERIX
- Pierre Henry-Labordère, Quantitative Analyst, SOCIÉTÉ GÉNÉRALE
- Vivek Kapoor, Director, Multi-Asset & Hybrids Trading, CITI
- Tom Hyer, Head Of Quantitative Analytics, UBS
- Richard Martin, Head Of Quantitative Credit Strategies, AHL, MAN INVESTMENTS LTD
- Igor Halperin, Vice President In Quantitative Research, J.P. MORGAN
- Salah Amraoui, Director, Structured Credit Trading, Risk Management-Europe, BNP PARIBAS
- Sebastien Hitier, Head Of Credit Quantitative Research, BNP PARIBAS HONG KONG
- Jakob Sidenius, Executive Director, JP MORGAN
- Dherminder Kainth, Head of Quantitative Research Centre, ROYAL BANK OF SCOTLAND
- Martin Kregel, Quantitative Analyst, UNICREDIT
- Roberto Torretti, Head Of Structured Credit Derivatives Business, BBVA
- Andrea Pallavicini, Head of Financial Engineering, BANCA LEONARDO
- Oliver Vigneron, Managing Director, JP MORGAN
- Jean-David Fermanian, Professor Of Finance & Statistics, CREST/ENSAE
- David Li, CRO, CICC
- Lorenzo Bergomi, Head of Quantitative Research, Global Markets, SOCIETE GENERALE
- Jesper Andreasen, Global Head of Quantitative Research, DANSKE BANK
- Dilip Madan, Professor of Mathematical Finance, ROBERT H. SMITH SCHOOL OF BUSINESS, UNIVERSITY OF MARYLAND
- Nicolas Grandchamp Des Raux, Managing Director, Global Head of Quantitative Research, Equity Derivatives, HSBC
- Jan H. Maruhn, Quantitative Researcher For Equities, Commodities & Funds, UNICREDIT
- Vladimir Lucic, Head of Equity Derivatives Quantitative Analytics, BARCLAYS CAPITAL
- Wim Schoutens, Research Professor, CATHOLIC UNIVERSITY OF LEUVEN
- Peter Laurence, Professor, UNIVERSITA DI ROMA 1
- Vladimir Piterbarg, Global Head Of Quantitative Analytics Group, BARCLAYS CAPITAL
- Marat Kramin, Director, WELLS FARGO SECURITIES & INVESTMENT GROUP
- Henrik Rasmussen, Global Head Of Rates Research, BANK OF AMERICA MERRILL LYNCH
- Massimo Morini, Head of Credit Models, BANCA IMI
- Messaoud Chibane, Global Head Of Quantitative Research Group, SHINSEI BANK
- Nicola Moreni, Senior Quantitative Analyst, BANCA IMI
- Alex Bernard, Global Head Of Structured Credit Products, DEUTSCHE BANK
- John Lunt, Senior Interest Rate & FX Quant, RABOBANK INTERNATIONAL
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- Faisal Yousaf, Global Head of Quantitative Risk & Valuation Group, HSBC
- Peter Jaeckel, Managing Director, OTC ANALYTICS
- Paul Doust, Head of Quantitative Analysis, RBS
- Oldrich Vasicek, Special Advisor, MOODY'S KMV
- Paul Barden, Head Of Quantitative Strategies, UBS

High Frequency Finance & Algorithmic Trading Summit

Finding Liquidity, Trading Without Impact, Exploring Dark Pools & Determining The Way Forward For High Frequency Finance

Monday 17 May 2010

08.30	Registration & Coffee
09.10	<p>High Frequency Finance: Trading Of The Future How Far Have We Come And Where Do We Go From Here?</p> <ul style="list-style-type: none"> Understanding the methodology of high frequency finance and its relationship to Econophysics and behavioral finance Discovery of 12 plus new scaling laws and how these scaling laws change approach to forecasting, trading and risk models Outlook of how innovations in high frequency finance will impact hedge fund and investment industry <p>Richard Olsen, Founder, OANDA Richard Olsen is an economic researcher in high frequency finance. He is co-founder of OANDA, a market maker and information source for currency; is chief executive of Olsen Ltd, an investment manager, and visiting professor at the Centre for Computational Finance and Economic Agents at the University of Essex.</p>

10.10	Audience Q&A & Industry Round Up
10.30	Morning Coffee

11.00	<p>Algorithmic Trading Outside Of Equities</p> <ul style="list-style-type: none"> The opportunities and the challenges The universal importance of best execution Unusual features of market microstructure Special concerns for futures and fixed income markets <p>Robert Almgren, Co-Founder, QUANTITATIVE BROKERS Robert Almgren is also a Fellow in the Mathematics in Finance Program at New York University. Until 2008, Dr Almgren was a Managing Director and Head of Quantitative Strategies in the Electronic Trading Services group of Banc of America Securities. From 2000-2005, he was a tenured Associate Professor of Mathematics and Computer Science at the University of Toronto, and Director of its Master of Mathematical Finance program. Before that, he was an Assistant Professor of Mathematics at the University of Chicago and Associate Director of the Program on Financial Mathematics. Dr. Almgren holds a Ph.D. in Applied and Computational Mathematics from Princeton University. He has an extensive research record in applied mathematics, including several papers on optimal securities trading, transaction cost measurement, and portfolio formation.</p>
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11.50	<p>Audience Q&A & Industry Round Up</p> <p>Market Microstructure Market Microstructure Over The Credit Crunch And Beyond</p> <ul style="list-style-type: none"> The evolution, over the credit crunch, of a variety of important components of (equity) market microstructure. The comparative differences in liquidity, spread, and automation, market by market. Predictions with respect to trends in market microstructure are often made on the basis of trends in the US; where do these apply, and, importantly, where don't they?
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12.00	<p>Kerr Hatrick, Head, Asia Quantitative Products One, DEUTSCHE BANK Kerr received his PhD in Mathematical Biology from University College London. He has worked both in the risk management and pricing of credit derivatives (Dresdner Bank, Lehman Brothers), and as quantitative strategist for both Goldmans and Deutsche, where his research spanned both high and low frequency delta-one products. He has constructed and managed equity portfolios in excess of \$100M, and his software has won numerous external awards for Deutsche Bank.</p>
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12.50	Audience Q&A & Industry Round Up
13.00	Lunch

14.00	<p>Algorithmic Trading In All Asset Classes How Will Algorithmic Trading Move Beyond Equities & Break Into FX, Futures, Options & Fixed Income?</p> <ul style="list-style-type: none"> What is the scope of Algorithmic Trading in Fixed Income, FX and commodities world How changing Macro- and Micro- structure of markets would throw up new challenges and opportunities Experiences in implementing Algorithmic Pricing and Order execution strategies <p>Gangadhar Darbha, Head & Product Manager, Algorithmic Trading, RBS Dr. Gangadhar Darbha has a PhD (Economics, IGIDR, India) and Post-Doc (Finance, Wharton School, University of Pennsylvania). Earlier he worked at the National Stock Exchange in India, and in Algorithmic Trading in Morgan Stanley and ABN AMRO in London. Currently, he is the Head of Algorithmic Trading in Delta Business in Rates, and Credit at Royal Bank of Scotland, London.</p>
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14.50	Audience Q&A & Industry Round Up
15.00	Afternoon Tea

15.30	<p>Problem Solving Working Group Algorithmic Trading: Overcoming The Challenges This is your chance to set the agenda! Put your specific algorithmic trading questions to this expert panel and discuss the key issues impacting your daily to work in the field</p> <p>Panelists:</p> <p>Richard Olsen, Founder, OANDA Robert Almgren, Founder, QUANTITATIVE BROKERS Kerr Hatrick, Head, Asia Quantitative Products One, DEUTSCHE BANK Gangadhar Darbha, Head & Product Manager, Algorithmic Trading, RBS</p>
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16.00	<p>SPECIAL GUEST ADDRESS Price Manipulation In Models Of The Order Book How Will Algorithmic Trading Move Beyond Equities & Break Into FX, Futures, Options & Fixed Income?</p> <ul style="list-style-type: none"> Price manipulation and models of market impact Optimal trading strategies and decay of market impact in the model of Alfonsi and Schied Relating the modelling frameworks Implications for realistic markets <p>Jim Gatheral, Managing Director, BANK OF AMERICA MERRILL LYNCH Jim Gatheral, Adjunct Professor at the NYU Courant Institute of Mathematical Sciences since 1998, is a Managing Director at Bank Of America Merrill Lynch, focussed on volatility modelling and modelling equity market microstructure for algorithmic trading. Between 1999 and 2005, Dr Gatheral led the Equity Quantitative Analytics Group at Merrill Lynch and prior to that he has been involved in all of the major derivative product areas as bookrunner, risk manager and quantitative analyst in London, Tokyo and New York. His well-known book The Volatility Surface: A Practitioner's Guide has become a standard reference for practitioners, academics and students alike.</p>
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End Of Summit Day

Don't Miss These Fantastic Pre-Conference Workshops (Pre-Registration Required)

<p>17 May 2010</p> <p>LMM-SABR Modelling A New Paradigm</p> <p>Led by Riccardo Rebonato, RBS</p>	<p>17 May 2010</p> <p>Commodities The Financialization Of Commodity Markets & Commodity Derivatives</p> <p>Led by Helvette Geman BIRKBECK, UNIVERSITY OF LONDON</p>
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Main Conference Day One

Tuesday 18 May 2010

08.00	Registration & Coffee
08.25	<p>Chairman's Opening Address Riccardo Rebonato, Head Of Front-Office Risk Management & Head Of Quantitative Analytics, GBM, RBS</p>
08.30	<p>THE GLOBAL ECONOMIC OUTLOOK Moving Forward In Our Post-Lehman World: What Has The Global Crisis Revealed About The Structure Of The Financial Markets & How Should We Re-Invent Them As A Result? Professor Norbert Walter, Chief Economist, DEUTSCHE BANK</p>
09.00	<p>GUEST NOBEL LAUREATE ADDRESS Global Financial Stability & Long Term Risk Robert Engle, Michael Armellino Professor of Finance, NEW YORK UNIVERSITY STERN SCHOOL OF BUSINESS</p>
09.45	<p>DERIVATIVES TRADING OF THE FUTURE... Behavioural Finance Vs Algorithmic Trading, Market Microstructure Vs Econophysics, Simple Vs Complex: In Which Direction Should The Industry Be Moving? Robert Engle, Michael Armellino Professor of Finance, NEW YORK UNIVERSITY STERN SCHOOL OF BUSINESS Michael Hintze, CEO, CQS CAPITAL PARTNERS Dr Espen Gaarder Haug, Private Investor & "The Collector" Riccardo Rebonato, Head Of Front-Office Risk Management & Head Of Quantitative Analytics, GBM, RBS Emanuel Derman, Professor, COLUMBIA UNIVERSITY</p>

Morning Coffee & Networking Break

Determining The Key Modelling Challenges & Technological Opportunities Cross Asset Classes

Modelling In The Post Crisis World	Successful Counterparty Credit Risk Modelling	Enhanced Volatility Modelling & Trading	Global Derivatives & Risk Management Trader Forum
<p>Model Calibration & Model Risk Jim Gatheral, BANK OF AMERICA MERRILL LYNCH</p>	<p>Counterparty Credit Risk Discussion Group How Can We Price Counterparty Credit Risk Into Our Deals & Successfully Manage The Risks Involved? Joe Holderness, JP MORGAN Josh Danziger, VALERE CAPITAL PARTNERS David Shelton, BANK OF AMERICA MERRILL LYNCH</p>	<p>Local Variance Gamma Models A Wish List For Equity Derivatives Pricing Peter Carr, BLOOMBERG</p>	<p>Volatility & Correlation Trading With Listed Options Paul Stephens, CBOE</p>
<p>Non-Parametric Stochastic/Local Volatility Modelling Grigore Tataru, BLOOMBERG</p>	<p>Modelling CVA Strategy Lab Session 1 Pricing CVA CVA Pricing, Integrated With Funding And Own Credit Martin Baxter, NOMURA</p>	<p>A New Cross-Asset Volatility Modelling Technique: Creating Volatility Surfaces In A Logical Space Applicable To All Asset Classes & Making Relative Skewness And Leptokurtosis Apparent Seba Karouz & Gert Zeibig, MUREX</p>	<p>Talking Liquidity How Far Can We Stretch The Current Models To Accurately Incorporate Liquidity? Gilles Dahab, CITI Mike de Vegvar, UBS</p>
<p>Options Embedded In Physical Money Dr. Espen Gaarder Haug</p>	<p>Session 2 Modelling CVA: Robust Modelling & Risk Management Of CVA Incorporating The Effect Of Default Correlation David Shelton, BANK OF AMERICA MERRILL LYNCH</p>	<p>Volatility Trading Panel Determining The Most Successful Trading Strategies For Uncertain & Changeable Times Arthur Bernd, CAPITAL FUND MANAGEMENT Peter Van Kleeef, LAKEVIEW ARBITRAGE Krag Gregory, GOLDMAN SACHS</p>	<p>Options Trading In Today's Markets: Exploring The Discreet Subtleties In Analytical Implementations & Locating The Value Within Markus Kämpe, ORC SOFTWARE</p>

Q&A & Industry Round Up

Lunch & Networking Break

<p>The Approximation Of Barrier Options: Regular Perturbation Technique Alexandre Antonov, NUMERIX</p>	<p>To Clear Or Not To Clear? Central Counterparties, CDS Clearinghouses And Systemic Risk Rama Cont, COLUMBIA UNIVERSITY</p>	<p>Extended Session Trading Volatility Using Multi-Asset Class Economic Forecasts Krag Gregory, GOLDMAN SACHS</p>	<p>New Pricing Issues In Post-Crisis Era Arie Soleslawski, SOCIETE GENERALE</p>
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Q&A & Industry Round Up

Afternoon Tea

<p>Funding Strategy Lab Session 1: The Irony In Derivatives Discounting Mark Henard, DEXIA Session 2: Collateral Implied Funding: Analyzing Influence of presence Of Collateral Agreements On Funding Curves, Calibration & Pricing Igor Smirnov, BNP PARIBAS</p>	<p>Trading CVA: A New Development in Correlation Modelling Youssef Elouerkhaoui, CITI</p>	<p>Volatility Of Volatility Exploring The Pattern & Determining How Much It Alters In Uncertain Times Peter Van Kleeef, LAKEVIEW ARBITRAGE</p>	<p>The Changing Face Of Credit Trading: Exploring The Impact That Illiquidity, Regulatory Change & Increased Volatility Will Have On The Credit Market Ziggy Jonsson, ARAM GLOBAL</p>
<p>Risk Management & Control Sensitivities From The Perspective Of Risk Management And Risk Control Christian Fries, DZ BANK</p>	<p>Bilateral Vs Unilateral Counterparty Risk Strategy Lab Session 1: 40 Minutes Bilateral Vs Unilateral Counterparty Risk With Hybrid Models Impact Of Volatilities And Correlations Damiano Brigo, IMPERIAL COLLEGE LONDON Session 2: 40 Minutes Self-Risk: Pricing & Hedging Self Counterparty Risk Josh Danziger, VALERE CAPITAL PARTNERS</p>	<p>Joint Modelling Of Variance Swaps And The Underlying Index Rama Cont, COLUMBIA UNIVERSITY</p>	<p>CMS Spreads & PRDCs What Are The Challenges For Using Models To Hedge CMS Spreads & PRDCs In A Fast, And Low Liquidity Market? Han-Peter Schöch, NOMURA</p>
<p>Variance & Volatility Derivatives Pricing And Optimal Hedging Of Variance Derivatives And Volatility-Equity Hybrid Derivatives John Crosby, UNIVERSITY OF GLASGOW</p>	<p>Trading Emerging Market Interest Rate Derivatives: Handling Volatility & Constructing A Successful Smile Surface Chris Hunter, BNP PARIBAS</p>		

Q&A & Industry Round Up

Champagne Roundtable Discussion Groups - 18.40

Martin Baxter, NOMURA	Rama Cont, COLUMBIA UNIVERSITY	Alex Lipton, BANK OF AMERICA MERRILL LYNCH	Peter Carr, BLOOMBERG	All Hira, NATIXIS CASPIAN CAPITAL MANAGEMENT	Jim Gatheral, BANK OF AMERICA MERRILL LYNCH
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Main Conference Day Two

Wednesday 19 May 2010

08.30	Registration & Morning Coffee			
THE GLOBAL DERIVATIVES & TRADING RISK MANAGEMENT TECHNICAL MASTER CLASS SESSIONS				
	Identifying New Innovations In Modelling & Risk Management	Exploring The Latest Techniques In Pricing Hedging & Trading Credit Derivatives	Advanced Pricing & Hedging Of Equity Derivatives In Uncertain Times	Cutting Edge Innovations In Interest Rate Modelling
09.00	The Regulatory Vision Exploring The Impact & Consequences Of Regulating The OTC Derivatives World: Regulatory Expectations For Central Counterparties and Risk Management Moving Forward Theo Lubke FEDERAL RESERVE BANK OF NEW YORK	Credit Blowups: Using Credit/Equity Models To Trade And Risk-Manage Single-Name Credits Richard Martin MAN INVESTMENTS	EXTENDED SESSION Stochastic Volatility Models: Dynamic Versus Static Properties Of Smiles - A Structural Connection Lorenzo Bergomi SOCIETE GENERALE	SABR Strategy Lab Session 1: Fixing SABR's Asymptotic Approximation How To Improve The HAGAN Approximation For Long Expiries And Out-Of-The-Money Options, With Implications For Hedging Ricardo Rebonato RBS Session 2: Volatility & SABR Asymptotics For Local Volatility And SABR Models Peter Laurence UNIVERSITY OF ROMEO Session 3: Log-Normal, Normal Or Square Root? How Do Interest Rates Really Behave, And What Does Sit Mean For The SABR Model? Empirical Evidence And Implications For Hedging Ricardo Rebonato RBS
09.40	New Research Maximum Drawdown Derivatives Peter Carr BLOOMBERG	The Implied Multi-Factor Model For Bespoke CDO Tranches Igor Halperin JP MORGAN	Stochastic Local Volatility Models Jesper Andreasen DANSKE BANK	
10.20	Volatility, Correlation, & Liquidity Ali Hira NATIXIS CASPIAN CAPITAL MANAGEMENT	Optimal Stochastic Recovery For Base Correlation Framework Salah Amraoui & Sebastian Hitler BNP PARIBAS		
11.00	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up
11.05	Morning Coffee & Networking Break			
11.40	The Return(s) Of Super-Replication • Optimal use of vanilla options to tighten the price range of exotics • How to optimally monetize a strategy along time • Many ways to make an arbitrage • Canonical decomposition of a claim into convex and time components • Examples with barrier options, cliques, Asian options, variance Calls and dispersion trades Bruno Dupire BLOOMBERG	Bespoke Tranche Pricing And Risk Management Jakob Sidenius JP MORGAN	Simultaneously Pricing Options On A Multiplicity Of Stocks: Calibrating 9 Surfaces Of Options On ETF's Dilip Madan UNIVERSITY OF MARYLAND	Determining The Effects Of Funding And Collateral In Derivatives Pricing Vladimir Piterberg BARCLAYS CAPITAL
12.20		Modelling Counterparty Credit Risk Across Asset Classes Overcoming The Challenges To Modelling Complex Hybrid Products Dherminder Kainth RBS	Variance Swaps How Can We Bring The Market Back To Life & What Can Be Done To Improve Stochastic Interest Swaps?	Application Of Stochastic Local Volatility Model For Pricing Exotic Options Marat Kramin WELLS FARGO
13.00	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up
13.10	Lunch & Opportunity To Visit The Exhibition Area			
14.30	Extended Session Numerical Methods For Non-Linear Problems In Quantitative Finance Part I: - An Efficient Monte-Carlo Calibration The McKean Non-linear diffusion and (Multi-factor) Local Stochastic Volatility Models - Particle method - Malliavin-Markov Projection method Bruno Dupire BLOOMBERG	Pricing CDOs With Stochastic Recovery Martin Kretkel UNICREDIT GROUP	Barrier Options Strategy Lab Session 1 Autocallables Pricing, Smoothing & Risk Managing Autocallables Nicolas Grandchamp Des Raux HSBC Session 2: Barrier Options Robust Static Super-Replication of Barrier Options Jan Manuh UNICREDIT GROUP	Implied Volatility Asymptotics: A Twist On The Non-Linear PDE Approach Henrik Rasmussen BANK OF AMERICA MERRILL LYNCH Solving The Puzzle In The Interest Rate Market: Modelling Basis Spreads And The Mismatches Of The Interest Rate Curves In A Market With Counterparty And Liquidity Risk Massimo Morini BANCA IMI
15.10	Part II: - Uncertain Volatility Models Backward stochastic differential equations - Pierre Henry-Labordere SOCIETE GENERALE	The CPDO Case: Stressing Rating Criteria Allowing For Default Clustering Roberto Torresetti GRUPO BBVA & Andrea Pallavicini BANCA LEONARDO		
15.50	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up
16.00	Afternoon Tea			
16.30	Optimal Dynamic Hedging Of Equity Options: Residual Risks, Transaction-Costs, & Conditioning Vivek Kapoor CITI	The Gaussian Copula Strategy Lab Session 1: New Ways Of Understanding The Gaussian Copula Better Pricing & Hedging Of Basket Credit Derivatives Using The Gaussian Copula Olivier Vigneron JP MORGAN & Jean-David Fermanian ENSAE Session 2: On Gaussian Copula Credit Model A Risk Neutral Approach David Li CICC	Exploring The Stochastic Volatility Model In Multi-Dimensional Settings How Do You Go Beyond The Simple Model & Show How The Correlation Appears The Impact On Products? Vladimir Lucic BARCLAYS CAPITAL	Long-Dated Hybrids Exploring The Latest Techniques For Pricing & Risk-Managing Long Dated Hybrids Messaoud Chibane SHINSEI BANK
17.10	Coding for Complex Models: Protocol, Indices, Promises & Components Tom Hyer UBS		Stochastic Volatility Models Achieving The Robust Calibration Of Stochastic Volatility Models Wim Schoutens CATHOLIC UNIVERSITY OF LEUVEN	Multi-Factor SABR A Multi-Factor SABR Model for Forward Inflation Rates Nicola Moreni BANCA IMI
17.50	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up
18.00	Champagne Roundtable Discussion Groups			
18.30	Olivier Vigneron JP MORGAN & Jean-David Fermanian ENSAE	Dilip Madan UNIVERSITY OF MARYLAND	Jean-Philippe Bouchard CAPITAL FUND MANAGEMENT	Lorenzo Bergomi SOCIETE GENERALE
			Nicolas Grandchamp Des Raux HSBC	David Li CICC
The Global Derivatives & Trading Risk Management Cocktail Party				

Main Conference Day Three

Thursday 20 May 2010

08.20	Morning Coffee		
08.40	Chairman's Welcome		
08.45	GUEST QUANT ADDRESS Theories, Models & Metaphors In Science And Finance Emanuel Derman , Professor, COLUMBIA UNIVERSITY & Head Of Risk, PRISMA CAPITAL PARTNERS 		
09.30	THE GREAT MODEL DEBATE Is Going Back To Basics In Our Modelling Techniques Symptomatic Of A Long Term Contraction In The Derivatives Market Or Is It A Necessary Step Back To Enable To Industry To Move Forward & Innovate Once More? Emanuel Derman , Professor, COLUMBIA UNIVERSITY Alex Bernard , Global Head Of Structured Credit Products DEUTSCHE BANK Leif Andersen , Global Head GCIB Quantitative Research MERRILL LYNCH BANK OF AMERICA John Lunt , Senior Interest Rate & FX Quant RABO BANK INTERNATIONAL   		
10.20	5 Minute Transfer Break		
10.25	Quantitative Problem Solving Working Groups Get Your Questions Answered By The Experts! Make The Most Of Your Time At The Conference & Pose Your Related Questions To The Expert Panel & The Gathering Of Relevant Practitioners <i>Submit Your Problems In Advance Or Ask Them On The Day</i>		
	Equity TaskForce Lorenzo Bergomi SOCIETE GENERALE Bruno Dupire BLOOMBERG	Interest Rates TaskForce Leif Andersen BANK OF AMERICA Jesper Andreasen DANSKE BANK	Credit TaskForce Peter Jaekel OTC ANALYTICS Martin Baxter NOMURA
11.00	Morning Coffee		
11.30	New Strategic & Practical Thinking For A Changing Derivatives Industry	The latest Innovations In FX & Interest Rate Derivatives Modelling & Trading	Cutting Edge Techniques In Commodities Trading & Risk Management
11.30	Computational Finance Strategy Lab Session 1: 40 mins Computational Finance High Performance Pricing With Fourth Level BLAS Extensions Claudio Albanese KINGS COLLEGE LONDON Session 2: 40mins Automatic GPU Computing For Derivative Pricing Models Curtis Randall SICOMP INC.	Demystifying FX Volatility Faisal Yousaf HSBC	Boom, Gloom And Spikes In Commodity And Shipping Market: Implications For Hedging And Derivatives Trading? Helyette Geman BIRKBECK UNIVERSITY
12.10		Perturbed Gaussian Copula Introducing The Skew Effect In The Co-Dependence Alberto Elices GRUPO SANTANDER	The Evolution Of The Energy Derivatives Markets: A Year In Review Ilija Bouchouev KOCH INDUSTRIES
12.50	Model Risk Quantifying Model Risk Using Multiple Snap Shots Of The Market	Modelling Of Emerging Markets Derivatives Dealing With Upward Sloping Smiles, Hybrid Modelling & Illiquid Markets Christopher Burgard BARCLAYS CAPITAL	Energy Derivatives Trading The Pricing Of Swing Options & Corporate Assets Lionel Greene EDF TRADING
13.30	Lunch		
14.30	The Anatomy Of Crashes How Leverage Creates Fat Tails And Clustered Volatility Stefan Thurner UNIVERSITY OF VIENNA	Quanto Skew A Fresh Look At Cross-Currency Options Peter Jaekel OTC ANALYTICS	Carbon Trading Analytics Mapping & Modelling Carbon Price & Risk Drivers Marcelo Labre STANDARD BANK
15.10	Speeding Up Risk In Monte Carlo: Adjoint Algorithmic Differentiation & Callable Options Luca Capriotti CREDIT SUISSE	The Stochastic Intrinsic Currency Volatility Model Paul Doust RBS	Estimating Exponential Affine Models With Correlated Measurement Errors: Reducing The Biases In Model Parameter Estimates Mike Dempster UNIVERSITY OF CAMBRIDGE
15.50	Afternoon Tea		
16.10	Copulas, What Copulas? Jean-Philippe Bouchard CAPITAL FUND MANAGEMENT	Extended Session Models Of The Term Structure Of Interest Rates: An Overview Oldrich Vasicek MOODY'S KMW	Designing A Commodities Exotics Model Alan Stacey NOMURA
16.50	In Favour Of Entity-Specific Accounting Paul Barden UBS		Concluding Commodities Panel Discussion Mike Dempster UNIVERSITY OF CAMBRIDGE Alan Stacey NOMURA Marcelo Labre STANDARD BANK
17.30	End Of Main Conference		

Benefit From In-Depth Post-Conference Workshops (Pre-Registration Required)

21 May 2010 Interest Rate Modelling: Solid Foundations To Advanced Models Led by Vladimir Piterberg BARCLAYS CAPITAL & Leif Andersen BANK OF AMERICA MERRILL LYNCH	21 May 2010 Volatility & Correlation: Modelling & Trading In Practice Led by Bruno Dupire BLOOMBERG	21 May 2010 Counterparty Risk & Credit Modelling With Lessons From The Crisis Led by Massimo Morini, BANCA IMI
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17 May 2010

The LMM-SABR Modelling Approach: A New Paradigm For Pricing, Calibrating And Hedging Interest-Rate Derivatives In The Presence Of Smiles

Led by: **Riccardo Rebonato**
Head Of Front-Office Risk Management & Head Of Quantitative Analytics, GBM
ROYAL BANK OF SCOTLAND

The course outline will be as follow

- The LIBOR market model framework (deterministic volatility)
- Deriving the drifts of the forward rates
- The SABR model
- Qualitative hedging behaviour
- Combining LMM and SABR
- Analytical approximation to swaption prices
- calibrating to Caplet Prices
- Calibrating the volatility function
- Empirical evidence
- Statistical behaviour of fitted parameters, and how to use this information for hedging
- Hedging under conditions of market turmoil

17 May 2010

The Financialization Of Commodity Markets and Commodity Derivatives

Led by:
Helyette GEMAN
Professor of Finance
BIRKBECK, UNIVERSITY OF LONDON & ESCP EUROPE

- The crucial role of the forward curve in all commodity classes
- Crude oil and crude refined products as a central market
- Seasonal and stochastic features in commodity forward curves: the borovkova - geman model
- The examples of natural gas, corn and wheat
- Metals: the examples of copper and aluminium
- Gold and its unique role as the numeraire currency
- Asian options in shipping, crude oil and gold markets

- The importance of calendar and physical spread options in commodities and the various approaches

About Your Workshop Leader



Helyette is a graduate of Ecole Normale Supérieure in Mathematics, holds a Masters degree in Theoretical Physics and a PhD in Probability from the University Pierre et Marie Curie and a PhD in Finance from the University Pantheon Sorbonne. Professor Geman has been a scientific advisor to major financial institutions, insurance companies and energy and mining companies for the last 21 years, covering the spectrum of catastrophic risk, crude oil, natural gas and electricity. She was previously the Head of Research at Caisse des Dépôts. Professor Geman was the

21 May 2010

Interest Rate Modelling: From Solid Foundations To Advanced Models

Led by:
Vladimir Piterberg
Global Head Of Quantitative Analytics Group
BARCLAYS CAPITAL

&

Leif Andersen
Global Head GCIB Quantitative Research
BANK OF AMERICA MERRILL LYNCH

Building Yield Curves

- Cubic Splines
- Non-parametric methods
- Tension splines
- Basis and Multiple Projection Curves

Vanilla models for single and multi-rate derivatives

- Basics of CMS models
- Copula calculus
- Old and new copulas and fitting smiles of CMS spreads

Short rate models -- what works and what does not

- Quasi-Gaussian Models with Local and Stochastic Volatility
- Quadratic Gaussian Models
- Multi-factor short rate models

Industrial-strength Libor market models

- Classical developments
- Advanced calibration techniques
- Interpolation of rates

Interest rate exotics in Monte Carlo

- Lower and upper bounds
- Advanced regression techniques
- Greeks

Lessons from crisis: Introducing deterministic and stochastic bases in interest rate models

- Multiple discounting curves
- Multiple projection curves
- Stochastic basis in interest rate models
- Impact on derivatives valuation

21 May 2010

Counterparty Risk And Credit Modelling With Lessons From The Crisis

Led by: **Massimo Morini**, Head Of Credit Models
IMI BANK OF INTESA

Credit Volatility Risk

- Modelling credit spread volatility and spread jumps
- Understanding the weaknesses and the advantages of reduced-form intensity models vs structural models

- Credit Option pricing for prepayment and buy-back. An example on Gap Risk

Credit Correlation Risk

- When Gaussian Copula should never be used: forward start deals, concentration risk, dynamic Var, CDS counterparty risk, standard mapping methods
- When Gaussian Copula can be used in a more clever way: heterogeneous correlation on static products, mapping with dispersion for capturing both idiosyncratic and systemic risk
- Beyond Gaussian Copula. Correlating intensities vs multiname structural

Counterparty Risk

- Modelling the effect of credit spread volatility, the volatility of the underlying, correlation and wrong way risk
- Taking my credit risk into account: Bilateral Counterparty risk. The relation with funding/liquidity risk

Credit and FX Risk

- Counterparty risk in FX
- The complex case and the simple case with closed-form formulas

Credit And Equity Risk

- The relation between Equity and Credit implied by realistic structural models
- Joint calibration to credit spreads and equity smile vs capital structure arbitrage
- Application to hybrid derivatives and Equity counterparty risk

Credit And Interest Rate Risk

- How the standard Term Structure building has broken down in the crisis. The Euribor and Eonia Gap. The explosion of basis spreads. The effect of collateral and liquidity
- Understanding the new market. New relationships for Term Structure Modelling with credit and liquidity risk

21 May 2010

Volatility & Correlation Modelling & Trading In Practice

Led by: **Bruno Dupire**, Quantitative Research, BLOOMBERG

- Review Of Some Pressing Market Topics
- Building a good volatility surface
 - Stochastic Local Volatility Models
 - Calibration of local correlation
 - Decomposition of Vega across strikes and maturities
 - Joint calibration to SPX and VIX skews
 - Options on double short ETF

The Fundamentals Of Volatility

- The different kinds of volatility
- Market facts: volatility behaviour and regimes
- Historical volatility estimation
- Implied volatility inter/extrapolation, Roger Lee's moment formula
- Study of empirical behaviour Market facts: volatility behaviour and regimes
- Historical volatility estimation
- Implied volatility inter/extrapolation, roger lee's moment formula
- Study of empirical behaviour

Volatility Models Review

- Black-Scholes model
- Local Volatility Model
- Heston model
- SABR model
- Bergomi model
- Stochastic Local Volatility Models

Building A Good Implied Volatility Surface

- Requirements: accurate, arbitrage free,

- robust and smooth
- First step: model fitting
- Second step: non parametric fitting of residuals
- Examples and applications

Local Volatility In Practice

- Obtaining the local volatility surface: calibration vs. Stripping formula
- Pricing with local volatility: finite difference and Monte Carlo
- Robust risk management: computing superbuckets
- Stochastic interest rates

Volatility Arbitrage

- Frequency/phase arbitrage
- Dynamic skew arbitrage
- Volatility derivatives arbitrage

Advanced topics

- Matching the volatility surface and the forward skew

- Impact of the skew on exotics: case study with barrier options and cliquets
- Delta hedge: calendar time and business time delta hedge
- Linking skew and uncertainty on historical volatility
- Application to volatility derivatives: links between vanilla option, VIX options and variance options
- Time based vs move based strategies
- Robust hedging: decomposing volatility risk across strikes and maturities

Correlation Basics

- Misconceptions about correlation
- Measures of dependency: correlation, copula and more
- Correlation across assets and time
- Coupling random variables or processes?
- Coupling levels or returns?

Modeling Correlation

- Estimating correlation incomplete data
- Study of empirical factors
- nD Local Volatility models
- Stochastic covariance
- How to model stochastic volatility
- How to correlate jumps

Pricing With Correlation

- Break-even points in correlation
- Correlation skew: basic examples
- Spread options and correlation
- Pricing Mountain Range
- Hedgeability with correlation components

Correlation Trading

- What can be locked
- Correlation swaps
- Correlation management
- Dispersion and diversification arbitrage

Tuesday 18 May 2010

DETERMINING THE FUTURE FOR GLOBAL DERIVATIVES TRADING & RISK MANAGEMENT

About Your Workshop Leader



Dr Riccardo Rebonato is Head Of Front-Office Risk Management & Head Of Quantitative Analytics, GBM. He is also a Visiting Lecturer at Oxford University for the Mathematical Finance Diploma and Visiting Fellow at the Applied Mathematical Department of Oxford University. He holds Doctorates in Nuclear Engineering and Science of Materials/Solid State Physics. Prior to joining the RBS Group, he was, Head of the Complex Derivatives Trading Desk and of the Complex Derivatives Research Group at Barclays Capital, where he worked for nine years. Before that he was a Research Fellow in Physics at Corpus Christi College, Oxford, UK. He is the author of the books 'Interest-Rate Option Models' (1996, 1998) and 'Volatility and Correlation in Option Pricing' (1999, 2004) Modern Pricing of Interest-Rate Derivatives – the LIBOR Market Model and Beyond (2002).

08.00 Registration & Coffee

08.25

Chairman's Opening Address

Riccardo Rebonato
Head Of Front-Office Risk Management & Head Of Quantitative Analytics, GBM, RBS
Bio can be found to the left

08.30

Economist Address

THE GLOBAL ECONOMIC OUTLOOK
Moving Forward In Our Post-Lehman World: What Has The Global Crisis Revealed About The Structure Of The Financial Markets & How Should We Re-Invent Them As A Result?



Norbert Walter, Chief Economist
DEUTSCHE BANK
Before his current position, Norbert Walter was a professor and director at the renowned Kiel Institute for World Economics and was a John J. McCloy Distinguished Research Fellow at the American Institute for Contemporary Studies at the Johns Hopkins University in Washington, DC (1986-1987). Norbert Walter is currently responsible for a globally integrated approach to economic research. He manages Deutsche Bank Research, Deutsche Bank's think tank, which covers a wide spectrum of issues ranging from economic forecasting to country rating and sector analysis.

09.00

GUEST ACADEMIC ADDRESS

Global Financial Stability & Long Term Risk
Robert Engle, Michael Armellino Professor of Finance, NEW YORK UNIVERSITY STERN SCHOOL OF BUSINESS

Professor Engle was awarded the 2003 Nobel Prize in Economics for his research on the concept of autoregressive conditional heteroskedasticity (ARCH). He developed this method for statistical modeling of time-varying volatility and demonstrated that these techniques accurately capture the properties of many time series. Professor Engle shared the prize with Clive W. J. Granger of the University of California at San Diego. Professor Engle is an expert in time series analysis with a long-standing interest in the analysis of financial markets. His ARCH model and its generalizations have become indispensable tools not only for researchers, but also for analysts of financial markets, who use them in asset pricing and in evaluating portfolio risk. His research has also produced such innovative statistical methods as cointegration, common features, autoregressive conditional duration (ACD), CAViaR and now dynamic conditional correlation (DCC) models. Before joining NYU Stern in 2000, Professor Engle was Chancellor's Associates Professor and Economics Department Chair at the University of California, San Diego, and Associate Professor of Economics at the Massachusetts Institute of Technology.

09.45

Panel Discussion

DERIVATIVES TRADING OF THE FUTURE...

Behavioural Finance Vs Algorithmic Trading, Market Microstructure Vs Econophysics, Simple Vs Complex: In Which Direction Should The Industry Be Moving?

Robert Engle, Michael Armellino Professor of Finance NEW YORK UNIVERSITY STERN SCHOOL OF BUSINESS
Bio can be found above



Michael Hintze, CEO & Senior Investment Officer, CQS (UK) LLP
Prior to establishing CQS, Michael was Managing Director in the Leveraged Funds Group at CSFB where he developed the strategy and management team for the CSFB Convertible & Quantitative Strategies Fund, which later became CQS Convertible & Quantitative Strategies Fund. Before that Michael was Managing Director and Head of Convertibles and Equity Derivatives at CSFB, responsible for global convertible bond and equity derivative research, proprietary trading and sales. Before joining CSFB in 1996, Michael worked at Goldman Sachs for 12 years in a variety of roles including: Managing Director and Head of UK Trading and Head of European Emerging Markets Trading.



Dr. Espen Gaarder Haug
Espen Haug is currently working as a private investor and is also writing on a new book about the deeper aspects of uncertainty. Haug has more than 15 years of trading experience. He has worked as a proprietary derivatives trader for J.P. Morgan New York and several Hedge Funds in USA. Before that he worked as a market maker in options for Chemical Bank and Den norske Bank. He has published two books: Derivatives Models on Models and The Complete Guide to Option Pricing Formulas. He has a PhD degree in mathematical finance from the Norwegian University of Technology.

Riccardo Rebonato
Head Of Front-Office Risk Management & Head Of Quantitative Analytics, GBM RBS
Bio can be found on the top left

Emanuel Derman, Professor COLUMBIA UNIVERSITY & Head of Risk, PRISMA CAPITAL PARTNERS
Bio can be found on page 10

10.30 Morning Coffee & Networking Break

Stream A:
Modelling In The Post Crisis World: Practical Modelling & Implementation Techniques For Uncertain Times

11.00

Model Calibration & Model Risk

- Stylized properties of financial time series
- Time series properties implied by conventional models
- Formally reasonable vs practical models
- Model calibration
- Philosophical interpretation and model risk

Jim Gatheral, Managing Director
BANK OF AMERICA MERRILL LYNCH

Jim Gatheral, Adjunct Professor at the NYU Courant Institute of Mathematical Sciences since 1998, is a Managing Director at Bank Of America Merrill Lynch, focused on volatility modelling and modelling equity market microstructure for algorithmic trading. Between 1996 and 2005, Dr Gatheral led the Equity Quantitative Analytics Group at Merrill Lynch and prior to that he has been involved in all of the major derivative product areas as bookrunner, risk manager and quantitative analyst in London, Tokyo and New York. His well-known book The Volatility Surface: A Practitioner's Guide has become a standard reference for practitioners, academics and students alike.

11.40

Non-Parametric Stochastic/Local Volatility Modelling

- Fast forward PDE calibration of non-parametric Stochastic/Local Volatility Model
- Match an arbitrary full volatility surface; control of moment explosion
- Practical discussion of calibration issues in the real world
- Estimating a mixed calibration from vanillas and vanilla dynamics without exotic calibration data
- Utilizing the model within the BLOOMBERG PROFESSIONAL@ service

Grigore Tataru, Quantitative Development Group, BLOOMBERG

Grigore Tataru is a member of the Bloomberg Quantitative Development group for FX, Equity, and Commodity Derivatives. Before joining Bloomberg he worked at Bear Stearns and J.P. Morgan. He holds a Ph.D. in Mathematics from the Massachusetts Institute of Technology.

12.20

Options Embedded In Physical Money

- A short history of modeling optionality in money
- Perpetual put options in embedded in coins and bills
- Modeling government action as barriers
- Options embedded in Precious metal coins

Dr. Espen Gaarder Haug

Bio can be found to the left

13.00

Audience Q&A & Industry Round Up

13.10 Lunch & Networking Break

14.30

The Approximation Of Barrier Options:

Regular Perturbation Technique

Alexandre Antonov
Senior Vice President, Quantitative Research NUMERIX

Alexandre Antonov got his PhD degree from the Landau Institute for Theoretical Physics in 1997 and joined Numerix LLC in 1998 where he currently works as a Senior Vice President of Quantitative Research. His activity is concentrated on modeling and numerical methods for interest rates, cross currency, hybrid and credit.

15.10

Credit Value Adjustment:

Theoretical & Practical Issues

Alex Lipton
Global Head of Credit Analytics
BANK OF AMERICA MERRILL LYNCH & Visiting Professor IMPERIAL COLLEGE

Alex Lipton is also a Visiting Professor of Mathematics at Imperial College London. Prior to his current role, he was a Managing Director and Head of Capital Structure Quantitative Research at Citidel Investment Group in Chicago; he has also worked at Credit Suisse, Deutsche Bank and Bankers Trust. Previously, Alex was a Full Professor of Mathematics at the University of Illinois in Chicago and a Consultant at Los Alamos National Laboratory. His current interests include credit correlation and related topics, quantitative aspects of securitization, as well as technical trading strategies. In 2000 Alex was awarded the first Quant of the Year Award by Risk Magazine. Alex is the author of two books (Magnetohydrodynamics and Spectral Theory and Mathematical Methods for Foreign Exchange).

15.50

Audience Q&A & Industry Round Up

16.00 Afternoon Tea

16.30

Funding Strategy Lab

Session 1: 40mins

The Irony In Derivatives Discounting

Mark Henrad
Head of Interest Rate Modelling
DEXIA

Marc Henrad covers interest rate and inflation model development and implementation for the front-office. His main areas of expertise are term structure modelling, derivatives pricing and hedging and risk management. He publishes on those subjects in international journals on a regular basis. He previously held the position of Head of Quantitative Research and Deputy Head of Treasury Risk at the BIS. He worked as a lecturer and research scientist at Louvain University, SISSA and Scuola Normale di Pisa.

first president of the Bachelier Finance Society and has published more than 103 papers in top international finance and insurance Journals including the Journal of Finance, Mathematical Finance, Geneva Papers on Insurance. She was named in 1993 Member of Honour of the French Society of Actuaries. Professor Geman's research includes interest rates and catastrophic insurance, asset price and commodity forward curve modeling, hedge funds and alternative investments, as well as exotic option pricing for which she won the first prize of the Merrill Lynch Awards in 1994. Her pioneer work on extreme events, catastrophic options and CAT bonds received in 1994 the first Prize of the AFIR (Actuarial Approach to Financial Risk) awards. Prof Geman was named in 2004 in the Hall of Fame of Energy Risk and received in July 2008 the medal for Sciences of the Institute for Advanced Studies of the Alma Mater University of Bologna for the CGMY model, a pure jump Levy process widely used in finance since 2002 and in insurance since 2004. Her reference book Commodities and Commodity Derivatives: Energy, Metals and Agriculturals was published by Wiley Finance in January 2005. Prof Geman is a Member of the Board of the UBS-Bloomberg Commodity Index. She edited in 2009 the book Risk Management in Commodity Markets: from Shipping to Agriculturals and Energy.

About Your Workshop Leaders



Vladimir Piterberg, BARCLAYS CAPITAL
Vladimir Piterberg is a Managing Director and the Head of Quantitative Analytics at Barclays Capital. Before joining Barclays Capital in March 2005, he was a co-head of quantitative research for Bank of America, where he had worked for 8 years. Vladimir Piterberg's main areas of expertise are the modelling of exotic interest rate and hybrid derivatives.

&



Leif Andersen, BANK OF AMERICA MERRILL LYNCH
Leif is currently head of the rates and credit quantitative research group at Banc of America Securities. Before that he spent 9 years at General Re Financial Products, working in a variety of financial markets.

- Riskless discounting with risky indexing. Basis spreads as options on the credit and liquidity

About Your Workshop Leader



Massimo holds a PhD in Mathematics and a MSc in Economics. He is Head of CreditModels and coordinator of financial modelling research at IMI Bank of Intesa San Paolo, where in the past he worked as a senior quant on interest rate and credit derivatives with Damiano Brigo and Fabio Mercurio. Massimo is Professor of Fixed Income at Bocconi University. He was Research Fellow at Cass Business School of London City University with Professor Nick Webber. He also teaches at Polytechnic of Milan, Milan University, Bologna University.

About Your Workshop Leader



Bruno Dupire has headed the Derivatives Research teams at Société Générale, Paribas Capital Markets and Nikko Financial Products before joining Bloomberg to develop pricing, risk management and arbitrage models. He is best known for having pioneered the widely used Local Volatility model (simplest extension of the Black-Scholes-Merton model to fit all option prices) in 1993 and subsequent stochastic volatility extensions. He is a Fellow and Adjunct Professor at NYU and he is in the Risk magazine "Hall of Fame" of the 50 most influential people in the history of Derivatives and Risk Management. He is the recipient of the 2006 "Cutting edge research" award of Wilmont magazine and was voted in 2006 the most contributing practitioner of the 5 previous years in the ICB Global Derivatives industry survey. He is the recipient of the Risk Magazine "Lifetime Achievement" award for 2008.

Session 2: 40mins

Collateral Implied Funding:

Analysing influence of presence of Collateral Agreements on Funding Curves, Calibration & Pricing

- How the presence of collateral agreements determines funding rates
- The implications of varieties of terms of the agreements on implied funding - multi-currency, multi-asset collateral
- The implications of calibration & market prices for OTC derivatives
- Pricing in the presence of more exotic collateral features, including asymmetric collateral agreements

Igor Smimov, *Global Head of Flow Research Group*
BNP PARIBAS

Igor is responsible for quantitative research and modelling of flow products across Fixed Income (including Interest Rates, Credit, Mortgages and other product areas) at BNP Paribas. He has tackled a number of research areas during his career, with a long standing focus on term structure modelling and risk dimensionality issues, and more recently liquidity, funding and counterparty risks.

17.50

Risk Management & Control

Sensitivities from the Perspective of Risk Management and Risk Control

- Requirements for calculating sensitivities (aka Greeks) in the context of hedging and risk control. These requirements can be conflicting and they can conflict with model assumptions.
- Getting Stable and Consistent Sensitivities
- Avoiding Pitfalls
- Retaining Performance

Christian Fries, *Head Of Model Development,*

Group Risk Control, DZ BANK

Christian is also a lecturer at University of Frankfurt. His current research interests are hybrid interest rate models and Monte Carlo methods. His papers and lecture notes may be downloaded from <http://www.christian-fries.de/firmath>. He is the author of "Mathematical Finance: Theory, Modeling, Implementation", Wiley, 2007.

18.30

Audience Q&A & Industry Round Up

18.40

Champagne Roundtable Discussion Groups

Stream B:

Successful Counterparty Credit Risk Modelling: Mastering CVA, Bilateral CPCR & Hybrid Modelling

11.00

Counterparty Credit Risk Discussion Group

How Can We Price Counterparty Credit Risk into Our Deals & Successfully Manage The Risks Involved?

Joe Holderness, *Managing Director, Global Head of Investment Bank Credit Portfolio Group*
JPMORGAN CHASE

Joseph Holderness is currently Managing Director, Global Head of Investment Bank Credit Portfolio Group for JP Morgan Chase. Prior to joining Chase, he was head of Financial Engineering for Baring Securities in London, and before that held positions in quantitative analysis and arbitrage strategy at County NatWest and BARRA.

Josh Danziger, *Principal*

VALERE CAPITAL PARTNERS LLP

Josh was previously Head of Structured Products at Royal Bank of Canada, responsible for structured rates, inflation, credit derivatives and principal finance. He holds a PhD from Cambridge University; his thesis concerned the computer modeling of the chemical interactions between proteins and drugs at a molecular level.

David Shelton, *Director, Co-Head Of Credit Derivatives Research, BANK OF AMERICA MERRILL LYNCH*
Within Credit Research David's main interests are pricing and hedging of CDOs and correlation products counterparty risk and dynamic models of credit risk. For the past 11 years David has worked as a quantitative analyst on FX, hybrid FX interest rate and Credit products. Before that David was a postdoctoral theoretical physicist in Canada and Oxford for 2 years, after receiving a DPhil in Theoretical Physics from the University of Oxford.

11.40

Modelling CVA Strategy Lab

Session 1: 40 minutes

CVA Pricing, Integrated With Funding And Own Credit

- CVA portfolio pricing and risks
- Consistent integration with funding and own credit benefit
- Important considerations for accurate prices
- Impact on callable trades

Martin Baxter, *Quantitative Analyst, NOMURA*

Martin Baxter was a lecturer in mathematics at Cambridge University, where he co-wrote the best-selling textbook "Financial Calculus". Since 1997, he has worked at Nomura in its London Fixed Income quantitative research group. He has developed models for both interest-rates and credit, and is a founder member of the team which has built Nomura's risk management system.

Session 2: 40 minutes

Robust Modelling And Risk Management Of CVA Incorporating The Effect Of Default Correlation

- Comparison of Different Approaches to Modelling Counterparty Risk for Credit Derivatives.
- Modelling the effect of default correlation between the reference entity and the counterparty
- Valuing CDS protection sold by SPVs with credit risky collateral

David Shelton

Director, Co-Head Of Credit Derivatives Research
BANK OF AMERICA MERRILL LYNCH

Bio can be found above

13.00

Audience Q&A & Industry Round Up

13.10

Lunch & Networking Break

14.30

To Clear Or Not To Clear?

Central Counterparties, CDS Clearinghouses And Systemic Risk

- The network approach to systemic risk
- How do CDS markets affect financial stability?
- Do nakedly speculative CDS affect systemic risk differently than CDS hedged?
- The effect of netting agreements
- Central counterparties (CCP) as tools for mitigating systemic risk
- Do CCPs actually reduce systemic risk?
- One CCP vs several CCPs

Rama Cont

Director, Centre for Financial Engineering

COLUMBIA UNIVERSITY

Rama Cont is also the Senior Research Scientist in Mathematics at CNRS (Paris) and a founding partner of Finance Concepts, a risk advisory firm based in Paris and New York. His research has focused on computational methods in finance, jump processes and heavy-tailed models of financial risk, credit risk, systemic risk and counterparty networks. He has co-authored several books on quantitative finance including "Financial Modeling with Jump Processes" (CRC Press, 2003) and "Frontiers in Quantitative Finance: volatility and credit risk modeling" (Wiley 2008). He is the Editor-in-Chief of the Encyclopedia of Quantitative Finance (Wiley, 2010).

15.10

Practical Challenges For Counterparty Credit Risk

Speaker to be confirmed

15.50

Audience Q&A & Industry Round Up

16.00

Afternoon Tea

16.30

Trading CVA:

A New Development in Correlation Modelling

- Introduction: CVA for CDOs
- CVA Definitions (asset, liability, unilateral, bilateral, debt CVA, ...)
- CVA Trade Types (unmarginned swaps, netting, SPVs with collateral, CLNs, ...)
- The Pricing Problem: CVA as a New Exotic Credit Derivative Payoff
- Pricing under the Forward Default Measure
- Markovian Dynamics
- Numerical Issues
- Applications: CVA for a CDS
- CVA for a CDO
- The Hedging Problem: Static Replication vs Dynamic Hedging

Youssef Elouerkhaoui

Global Head of Credit Derivatives Quantitative Research

CITI

Youssef Elouerkhaoui's group supports all aspects of product development and modelling across desks, this covers: credit trading, correlation trading, ABS correlation, credit exotics and emerging markets. Prior to this, he was a Director in the Fixed Income Derivatives Quantitative Research Group at UBS, where he was in charge of developing and implementing models for the Structured Credit Derivatives Desk. Before joining UBS, Youssef was a Quantitative Research Analyst at Credit Lyonnais supporting the Interest Rates Exotics business.

17.10

Bilateral Vs Unilateral Counterparty Risk Strategy Lab

Session 1: 40 minutes

Bilateral Vs Unilateral Counterparty Risk With Hybrid Models

- Impact of volatilities and correlations
- Strange features of the bilateral case in some real banking reports
- Model dependence and wrong way risk
- Cases From Credit (CDS), Commodities (Swaps) and Rates (Swaps)
- Impact of Netting
- Arbitrage free dynamic approach vs rough multipliers

Damiano Brigo, *Professor, Dept. of Mathematics*

IMPERIAL COLLEGE, LONDON

In 1997 he moved to financial modeling at Banca INTESA in Milan, dealing with the pricing/hedging of equity, basket and interest-rate derivatives and with Risk Measurement. In 1998 he moved to Banca IMI, where he has been appointed as Head of the Credit Models department. In July 2007 Damiano joined London-based FIT Solutions as Managing Director and Global Head of the Quantitative Innovation team. Over the years he has published several academic and practitioner-oriented articles in financial modeling, probability and systems theory journals. He is author of the book "Interest Rate Models: Theory and Practice" for Springer-Verlag. Damiano is currently visiting professor at the Dept. of Mathematics at Imperial College, London, has been the most cited author in 2006 in Risk magazine and is Managing Editor of the International Journal of Theoretical and Applied Finance.

Session 2: 40 minutes

Self-Risk: Pricing & Hedging Self Counterparty Risk

- Should pricing reflect self-risk?
- Should self-risk be hedged?
- The impact on market dynamics of hedging self-risk

Josh Danziger, *Principal*

VALERE CAPITAL PARTNERS LLP

Bio can be found above

18.30

Audience Q&A & Industry Round Up

18.40

Champagne Roundtable Discussion Groups

Stream C:

**Enhanced Volatility Modelling & Trading
Determining The Latest Advances In Volatility**

Stream Chairman: **Peter Rogers, MUREX**

Peter "Buck" Rogers has worked in financial markets since 1980 principally as a derivatives trader. Prior to joining Murex he was the Senior Executive Officer of Arbitrage, Europe, a partnership specialising in automated options market making. Previously Peter worked at Merrill Lynch & JPMorgan before spending 10 years with Citibank where he was Head of European Bond and Options trading, Europe. Peter manages Murex' front office product evolution, rotating between Paris, New York and Singapore.

11.00

Local Variance Gamma Models

A Wish List For Equity Derivatives Pricing

- Review of Local Variance and Variance Gamma Option Pricing Models
- Blending the 2 models to create arb-free, pure-jump dynamics
- Exact Calibration to Discrete Strikes and Maturities

Peter Carr, *Head of QFR*

BLOOMBERG & Director, Masters in MF Program

NYU

Dr. Peter Carr has over twelve years of experience in the derivatives industry. For the past 5 years, Dr. Carr has headed Quantitative Financial Research at Bloomberg and the Masters in Mathematical Finance program at NYU's Courant Institute. Prior to his current positions, he headed equity derivative research groups at 2 major banks and was a finance professor for 8 years at Cornell University. Conducting research in the interface between academia and industry, he has published extensively in both academic and industry-oriented journals. He is currently the treasurer of the Bachelor Finance Society and an associate editor for 8 journals related to mathematical finance. He recently won the ISA Medal for Science for the CGMY model from the University of Bologna. Previous awards are from Wilmott Magazine for Cutting Edge Research and from Risk Magazine for "Quant of the Year".

11.40

A New Cross-Asset Volatility Modelling Technique:

Creating Volatility Surfaces In A Logical Space Applicable To All Asset Classes & Making Relative Skewness And Leptokurtosis Apparent

Gerd and Seba have led the mathematical evolution and functional application project that results in Murex' new cross asset volatility management framework.

Sebastien Kayrouz

Manager, Foreign Exchange Derivatives Practice, New York

MUREX

Sebastien Kayrouz joined Murex in Paris eight years ago. Seba is a telecommunications engineering graduate of Beirut Saint Joseph University School of Engineering. Prior to working on the cross-asset volatility framework, Seba focused on the validation and market testing of Murex' Temor stochastic/local volatility hybrid model.

Gerd Zeibug

Quantitative Consultant

MUREX

Having joined the equity team six years ago Gerd is now working cross-asset and is overseeing Murex' volatility derivatives management. Gerd holds a Ph.D. in pure mathematics from Kent State University and has published in leading mathematical journals.

12.20

Panel Discussion Volatility Trading

Determining The Most Successful Trading Strategies For Uncertain & Changeable Times

Arthur Bernd, *Head Of OTC & Macro Volatility Strategies*
CAPITAL FUND MANAGEMENT

Previously Dr. Arthur Bernd was the Head of Quantitative Market Strategies at BlueMountain Capital Management. Earlier, Arthur was a Senior Vice President at Lehman Brothers, and a Vice President at Goldman Sachs Asset Management. Arthur holds a PhD in physics from Stanford University. He is a member of the editorial board of the Journal of Credit Risk, and a coordinator of the advisory committee for arXiv.org/fin, a global electronic research repository for quantitative finance.

Peter van Kleef, *Partner*

LAKEVIEW CAPITAL MARKET SERVICES

Prior to his role at Lakeview, Peter managed significant hedge fund type investment portfolios and quantitative trading departments for among others Cooper Neff, Salomon Brothers, HypoVereinsbank and Credit Lyonnais. He has over 15 years of experience in the development and running of sophisticated automated trading operations. He holds a MSc degree from the Owen Graduate School at Vanderbilt University, Nashville, USA.

Krag "Buzz" Gregory

Vice President

GOLDMAN SACHS

Krag is a member of the Options Research team in Global Investment Research covering macro derivative products including equity index options, variance swaps and VIX products. Buzz joined Goldman Sachs as part of the Equity Derivatives Strategy team in 2000, where he specialized in volatility and hedging strategies. He became a vice president in 2003.

13.00

Audience Q&A & Industry Round Up

Main Conference

Tuesday 18 May 2010

DETERMINING THE FUTURE FOR GLOBAL DERIVATIVES TRADING & RISK MANAGEMENT

DAY
1/2

13.10 Lunch & Networking Break

14.30

Extended Session

Trading Volatility Using Multi-Asset Class Economic Forecasts

Krag "Buzz" Gregory, Vice President, GOLDMAN SACHS
Bio can be found on page 6

15.50

Audience Q&A & Industry Round Up

Afternoon Tea

16.00

16.30

Volatility Of Volatility

Exploring The Pattern & Determining How Much It Alters In Uncertain Times

- The impact of a changing market environment on volatility
- How is volatility of volatility different from volatility itself
- How to get positive exposure to volatility of volatility
- Why betting on volatility of volatility is the smarter bet

Peter van Kleef, Partner

LAKEVIEW CAPITAL MARKET SERVICES

Bio can be found on page 6

17.10

Joint Modelling Of Variance Swaps And The Underlying Index

- Variance swaps, VIX futures and VIX options
- Statistical properties of Variance swap term structures
- YA tractable joint dynamic model for forward variance swaps and the index
- Consistent pricing of vanilla options and VIX options
- Calibration result for VIX and SP500

Rama Cont, Director, Centre for Financial Engineering COLUMBIA UNIVERSITY

Bio can be found on Page 6

17.50

Pricing And Optimal Hedging Of Variance Derivatives And Volatility-Equity Hybrid Derivatives

- Generalised variance swaps: Pricing and convergence
- Hedging of variance swaps – why the existing log-contract approach is, in general, sub-optimal
- Optimal hedging of variance swaps
- Optimal hedging of other volatility-equity hybrid derivatives
- Implications for hedging under extreme market conditions such as in autumn 2008

John Crosby, Visiting Professor, GLASGOW UNIVERSITY

John began his career by trading fx options. He then moved to Monis (formerly London Business School Financial Software) where he wrote their pricing libraries for a very wide range of exotic derivatives as well as co-writing their three-factor Convertible bond model, which captured stochastic equity prices, interest-rates and default risk. He then headed quant teams at Barclays Capital and Lloyds where he developed derivatives models across all asset classes. He is best known for publishing several papers in the area of commodity and hybrid derivatives. John is a visiting Professor at Glasgow University and an invited lecturer on the M.Sc. course in Mathematical Finance at Oxford University.

18.30

Audience Q&A & Industry Round Up

18.40

Champagne Roundtable Discussion Groups

Stream D:
**Global Derivatives & Risk Management Trader Forum
Finding Liquidity & Determining Successful Trading
Strategies for 2010**

11.00

Volatility & Correlation Trading With Listed Options

Paul B. Stephens

Director and Department Head

CHICAGO BOARD OPTIONS EXCHANGE

Paul Stephens is responsible for many marketing and educational efforts including seminars, advertising and publications as Head of Institutional and International Marketing for the Chicago Board Options Exchange (CBOE). He regularly consults institutional brokers and investors in order to create new option usage and support existing users. The CBOE, founded in 1973, is the creator of listed options and the nation's largest options marketplace. Mr. Stephens has over twenty years industry experience in options, futures and other derivative securities. Prior to joining the marketing department at the CBOE, Mr. Stephens was a Senior Staff Instructor with The Options Institute division of the CBOE. In this role he taught stock and stock index option seminars to institutional and retail clients. He also taught classes for the University of Chicago's Masters in Financial Mathematics program. Before arriving at the CBOE, he served as Financial Derivatives Instructor for the global investment bank S.G. Warburg. Mr. Stephens has also been a floor broker at the Chicago Mercantile Exchange for clients of Refco, Inc.

11.40

Panel Discussion Talking Liquidity

How Far Can We Stretch The Current Models To Accurately Incorporate Liquidity?

Gilles Dahan

Head Of Equity Derivatives Trading EMEA

CITI

Gilles Dahan is the Head of EMEA Derivatives Trading at Citigroup. Prior to this he was the Head of EMEA Exotics Trading.

Mike de Vegvar, Managing Director, Exotic Equity

Derivatives Trading, UBS

Mike de Vegvar is a Managing Director responsible for trading exotic equity index, correlation, and hybrid products at UBS in London. Prior to joining UBS in 1997, Mike traded interest rate derivatives at Bankers Trust and First Chicago. He holds BS and MS degrees in Electrical Engineering from MIT and an MBA from the Wharton School of Business.

Plus other panelists to be confirmed

12.20

Options Trading In Today's Markets:

Exploring The Discreet Subtleties In Analytical Implementations & Locating The Value Within

- Traders' requirements on options analytics
- Impact on options pricing
- Impact on volatility surface
- Impact on trading risk
- Case study: Three approaches to model STIR options

Markus Kämpe, Senior Product Manager

ORC SOFTWARE

Markus Kämpe is a senior solutions product manager with Orc Software. Orc provides power for the global financial industry in the critical areas of advanced trading and low latency connectivity. As a key member of Orc's product management team since 2001, Markus has been instrumental in bringing to market latest electronic trading enhancements for advanced market making, arbitrage and volatility trading. As a specialist in trading analytics, Markus has been involved in developing analytics for enabling traders to fully exploit their trading strategies. Traders require accurate pricing and sophisticated volatility models to trade and hedge derivatives in a constantly moving market. Orc provides off-the-shelf and customized pricing and volatility models for any traded product or asset class.

13.00

Audience Q&A & Industry Round Up

13.10 Lunch & Networking Break

14.30

New Pricing Issues In Post-Crisis Era

- Pricing liquidity costs in exotic structures
- Modelling the dividend dynamics
- Counterparty risk & replacement costs

Arie Boleslawski, MD & Head Of Structured Equity

Trading, Europe, SOCIETE GENERALE

Arie is a Managing Director at Societe Generale Corporate and Investment Banking and runs the Structured Equity Trading in Europe. Graduated from Ecole Polytechnique, he has 12 years experience in the derivatives industry. Previously, he was Head of Exotic Credit at Deutsche Bank, London and was before Global Head of Structured Credit Trading at SGCIB, New York having started his career on the Equity Index Arbitrage desk. In his current position, Arie is responsible of Cross Asset Solutions Trading platform on Equity derivatives, Hybrids, Mutual Funds and Alternative Investment.

15.10

The Good, The Bad, And The Ugly Of Trading The Global Inflation Markets:

From Peak Oil To Deflation And Onto QE

- Impact of the credit crunch
- Post-Lehman effects
- Illiquidity
- Re-think on inflation options
- The recovery and the longer-lasting impacts of QE

Dariusz Mirfendereski, Managing Director, Head of

Inflation Linked Trading, UBS INVESTMENT BANK

In addition to Dariusz's trading responsibilities, he has been closely involved in winning inflation-indexed bond mandates from The Republic of Italy, the UK Debt Management Office and the French Trésor since joining UBS in 2004. Prior to joining UBS, Dariusz was head of inflation derivatives at Barclays Capital, where he started trading inflation-linked products in 1998. Dariusz is a co-author of the book "Inflation-Indexed Securities: Bonds, Swaps, and Other Derivatives, 2nd Ed.," published in January 2004 – the leading reference on this asset class.

15.50

Audience Q&A & Industry Round Up

16.00 Afternoon Tea

16.30

The Changing Face Of Credit Trading:

Exploring The Impact That Illiquidity, Regulatory Change & Increased Volatility Will Have On The Credit Market

- Exploration of the relationship between liquidity structures, default barriers and implied recovery
- Analysis of implied term distributions of asset prices by assuming actual capital- and liquidity structures are a result of equity optimization and a comparison with the harsh reality in the tails
- For what reasons did the risk-neutral world suddenly shape the real-world and not the other way around?
- Synthetic-funding implications of super-senior assets to implied default distributions and the vicious cycle of wrong interpretation causing actual defaults

Ziggy Jonsson, Partner, ARAM GLOBAL

Ziggy Jonsson is a partner of ARAM Global, Asset Recovery Advisors. Just over a year ago he was appointed head treasury for Citinir bank in the last fatal months of the Icelandic banking system and served as a senior advisor to the government created Islandsbanki (the New Bank) in the subsequent restructuring. Previously he headed up the Structured Credit Trading for Bank of America Securities in North America, running synthetic CDO and hybrid trading desks after spending the early part of his career managing Treasury and Derivatives Trading for Kaupthing Bank.

17.10

CMS Spreads & PRDCs

What Are The Challenges For Using Models To Hedge CMS Spreads & PRDCs In A Fast, And Low Liquidity Market?

- Hedging cross gammas in fast and illiquid markets
- How to determine appropriate correlation levels
- Feedback effects and higher order risks
- How to incorporate and hedge skew risk

Hans-Peter Schöch, Director, Structured Rates Trading NOMURA

Hans-Peter has over ten years of industry experience in trading fixed income derivatives. He is working as a senior trader on the structured rates trading desk at Nomura in London. He is responsible for risk managing the EUR exotic rates trading book. In prior roles he held responsibilities for USD rates exotics and hybrids trading books.

17.50

Trading Emerging Market Interest Rate Derivatives:

Handling Volatility & Constructing A Successful Smile Surface

- Hedging costs and the volatility bid/offer
- Impact of basis volatility

Chris Hunter, Head Of Emerging Market Interest Rate

Options & Exotics Trading Europe, BNP PARIBAS
Christopher Hunter covers Central and Eastern European, Russian, Turkish, Middle East and South African markets. He joined BNP Paribas in 2001 and spent 4 years in quantitative research, working on interest rate and FX modeling in both London and New York. In 2005 he moved to trading, and prior to his current role he was trading hybrid derivatives.

18.30

Audience Q&A & Industry Round Up

18.40

Champagne Roundtable Discussion Groups

Main Conference Day Two: Wednesday 19 May 2010

08.30

Registration & Morning Coffee

THE GLOBAL DERIVATIVES & TRADING RISK MANAGEMENT TECHNICAL MASTER CLASS SESSIONS

Discover The Latest Advances In Quantitative Modelling & Exploring The New Techniques For Calibrating Existing Models In These Uncertain And Illiquid Times

Stream A:

Identifying New Innovations In Modelling & Risk Management

09.00

THE REGULATORY VISION

Exploring The Impact & Consequence Of Regulating The OTC Derivatives World: Regulatory Expectations For Central Counterparties and Risk Management Moving Forward

- The role of central counterparties
- Improving transparency, including the role of global trade repositories
- Ensuring prudent risk management for non-cleared OTC trades
- Global regulatory coordination

Theo Lubke, Senior Vice President, Bank Supervision

Group, FEDERAL RESERVE BANK OF NEW YORK

Theo Lubke oversees efforts to improve the resiliency of the OTC derivatives infrastructure and heads the Financial Infrastructure Department. Prior to that, he managed the supervisory relationships with large, complex foreign banking organizations. Prior to joining Bank Supervision, Mr. Lubke headed the Electronic Payments Function, where he managed the New York Fed's Fedwire operations. Previously, he had been in the Research Group where his work primarily focused on risk management of wholesale payment and settlement systems. During that time, he represented the New York Fed on committees at the Bank for International Settlements coordinating the G-10 effort to reduce foreign exchange settlement risk and developing core principles for the design and oversight of payment systems. Before joining the New York Fed in 1998, he worked on the staff of the National Economic Council at the White House.

09.40

New Research

Maximum Drawdown Derivatives

- Maximum Drawdown vs Volatility as a risk measure
- Insuring Against Large Maximum Drawdown
- Replicating Derivatives on MD using DNT's
- Super-replication under jumps

Peter Carr, Head of Quantitative Financial Research BLOOMBERG

Bio Can Be Found On Page 6

10.20

Volatility, Correlation & Liquidity

Ali Hirs, Head of Analytical Trading Strategy

NATIXIS CASPIAN CAPITAL MANAGEMENT

Ali Hirs is Head of Analytical Trading Strategy at Natixis Caspian Capital Management, LLC. Prior to his current position, Ali worked at Morgan Stanley, Banc of America Securities, and Prudential Securities. He is also an adjunct professor at Columbia University and Courant Institute.

11.00

Audience Q&A & Industry Round Up

11.05 Morning Coffee & Networking Break

11.40

The Return(s) Of Super-Replication

- Optimal use of vanilla options to tighten the price range of exotics
- How to optimally monetize a strategy along time
- Many ways to milk an arbitrage
- Canonical decomposition of a claim into convex and time components
- Examples with barrier options, cliques, Asian options, variance Calls and dispersion trades

Bruno Dupire, Quantitative Research, BLOOMBERG

Bio Can Be Found On Page 5

13.00

Audience Q&A & Industry Round Up

13.10 Lunch & Networking Break

14.30

Extended Session

Numerical Methods For Non-Linear Problems In Quantitative Finance

Part I:

- An Efficient Monte-Carlo Calibration
- The McKean Non-linear diffusion and (Multi-factor) Local Stochastic Volatility Models - Particle method - Malliavin-Markov Projection method

Part II:

- Uncertain Volatility Models
- Backward stochastic differential equations

Pierre Henry-Labordère, Quantitative Analyst

SOCIÉTÉ GÉNÉRALE

Dr. Pierre Henry-Labordère works in the Global Markets Quantitative research team at Société Générale as a quantitative analyst. After receiving his Ph.D. at Ecole Normale Supérieure (Paris) in the Theory of Superstrings, he worked in the theoretical physics department at Imperial College (London) before moving to finance in 2004.

15.50

Audience Q&A & Industry Round Up

16.00 Afternoon Tea

16.30

Optimal Dynamic Hedging Of Equity Options:

Residual Risks, Transaction-Costs, & Conditioning

- Real-world term structure of skewness & kurtosis
- Option hedging strategy conditioned on volatility
- Option trader/hedger risk profile & risk-capital
- Pricing & hedging connected with performance targets
- Risk premium inference & volatility investment strategy

Vivek Kapoor, Director, Multi-Asset & Hybrids Trading, CITI

Vivek Kapoor is responsible for creating systematic hedging & investment strategies spanning multiple asset classes. His research is focused on derivative trading, risk-premiums, including volatility & correlation risk-premiums in equity & credit derivatives. Kapoor has worked in capital markets trading & risk management roles since 2000. Vivek received his PhD from MIT for research on dispersion & uncertainty of transport phenomena in random porous media. Kapoor was a faculty member at Purdue University and Georgia Institute of Technology prior to his career in financial markets.

17.10

Coding for Complex Models

- Protocol, Indices, Promises & Components
- Protocols preserve implementation freedom
- Indices bridge past and future
- Promises encapsulate market-data dependencies
- Components collaborate in large-scale models

Tom Hyer, Head Of Quantitative Analytics, UBS

Tom Hyer obtained a B.A. from Rice and a Ph.D. from Stanford before beginning his analytics career at Sankers Trust; he subsequently worked at First Union before joining UBS in 2001. He is perhaps best known as the author of "It's About Forward Vol", a seminal analysis of calibration techniques for interest rate models.

He has devised and implemented models for Libor, bond, equity, credit, FX, cross-currency and hybrid products, as well as languages for trade description, hedge computation and run-time extensions. His current focus is on unification of cross-asset quant operations, software, and real-time data handling.

17.50

Audience Q&A & Industry Round Up

18.00

Champagne Roundtable Discussion Groups

Stream B:

Exploring The Latest Techniques In Pricing Hedging & Trading Credit Derivatives

09.00

Credit Blowups:

Using Credit/Equity Models To Trade And Risk-Manage Single-Name Credits

- How do you attach realistic probabilities to events such as credit blowups that have never happened before?
- For such events, historical data is of little use, but could structural models have done better?
- The use of Levy-based structural models to model credit and equity in a consistent framework
- Model-implied VaR and its management
- Case studies from 2007-8

Richard Martin

Head of Quantitative Credit Strategies

AHL, MAN INVESTMENTS LTD

Richard Martin is Head of Quantitative Credit Strategies at AHL, part of Man Investments Ltd, based in London. Previously to that he ran Quantitative Credit Strategy at Credit Suisse, and Fixed Income Capital Management at BNP Paribas. In the last few years his main interests have been the application of quantitative methods to trading vanilla credit and structured credit. He was awarded Quant of the Year by Risk Magazine in 2002.

09.40

Implied Multi-Factor Model For Bespoke CDO Tranches

- Drawbacks of using Base Correlation for bespoke pricing
- The new framework: why 'implied' and 'multi-factor'?
- 'Static' and 'dynamic' versions of the model
- Examples of pricing bespoke

Igor Halperin, Vice President In Quantitative Research

J.P. MORGAN

Igor is responsible for model research in the area of portfolio credit derivatives. Prior to joining J.P. Morgan, Igor worked as a quantitative analyst at Bloomberg L.P. Igor has a Ph.D. in Theoretical High Energy Physics, and held several academic positions before moving to the financial industry.

10.20

Optimal Stochastic Recovery For Base Correlation Frameworks

- Recovery risk in CDO tranche market
- Super senior and super duper tranche market price after the crisis
- Random recovery modelling and negative correlation between recovery and default rate
- Market calibration, pricing and risk analysis within A&H 2008 Model

Salah Amraoui, Director, Structured Credit

Trading, Risk Management-Europe, BNP PARIBAS

Salah is a graduate from Ecole Centrale Paris in applied maths in 1998 and holder of a Master in Finance from Sorbonne University. Salah has worked as an Interest Rate and Credit derivatives Quant at Socgen from 1999 to 2004 before moving to the structured credit trading desk at Socgen New York and London. Between May-2008 to August-2009 Salah was in charge of new product development at BNP Paribas and currently in charge of European risk management of structured credit.

Sebastien Hittler, Head Of Credit Quantitative Research

BNP PARIBAS HONG KONG

Prior to his current role, Sebastien held quantitative research positions with a similar focus over the last 9 years in BNP Paribas Tokyo - where he developed a stochastic recovery model for CDO with S. Amraoui - and at Lehman Brothers and JPMorgan in London. He graduated in 1994 from Ecole Centrale Paris, and joined the JPMorgan fixed income pricing and analytics team in Paris after that. Recently, pursuing an interest in dynamic CDO modeling, he proposed a unifying theory: CDO Pricing: Copula implied by risk neutral dynamics.

11.00

Audience Q&A & Industry Round Up

11.05 Morning Coffee

11.40

Bespoke Tranche Pricing & Risk Management

Jakob Sidenius, Executive Director, JP MORGAN

Jakob has spent the last seven years working as a front office quant for a number of banks in London. Before turning to practical finance Jakob worked in theoretical physics.

12.20

Modelling Counterparty Credit Risk Across Asset Classes

Overcoming The Challenges To Modelling Complex Hybrid Products

Dheminder Kainth

Head of Quantitative Research Centre

ROYAL BANK OF SCOTLAND

Dheminder Kainth is deputy head of the Quantitative Research Centre (QuARC) at the Royal Bank of Scotland. He joined QuARC in February 2001 (at the time headed by Riccardo Rebonato). Dheminder has worked across all asset areas and has published a number of papers (primarily work related to Credit Derivatives and modelling rates using the BGM).

13.00

Audience Q&A & Industry Round Up

13.10 Lunch & Networking Break

14.30

Pricing CDOs With Stochastic Recovery Rates

- Stochastic recovery rates in copula models
- Loss distribution analysis
- Risk analysis
- Application to super senior tranches and distressed markets

Martin Krekel, Quantitative Analyst

UNICREDIT

Martin Krekel holds a diploma and a Ph.D in financial mathematics. Between 2000 and 2006 he worked in the financial mathematics department at the Fraunhofer ITWM, Germany, as scientific researcher and banking industry consultant. In 2004 he returned to the head of the department. Since 2005 he held various positions as senior quantitative analyst at the HypoAlpenbank, respectively UniCredit Group where he built the credit pricing analytics for front and back office.

15.10

The CPDO Case:

Stressing Rating Criteria Allowing For Default Clustering

- CPDO ratings in perspective: rating arbitrage overview for corporate and structured finance ratings
- Standard CPDOs' rating criteria revised allowing for clusters of defaults

- Modeling the simultaneous default of cluster of names: the GPL model
- evaluation of the gap-risk option for CPDOs
- conclusions and further developments

Roberto Torresetti,

Head Of Structured Credit Derivatives Business,

BVBA

Roberto Torresetti is responsible for the Structured Credit Derivatives business at BVBA. He was previously a senior credit derivatives modeller at Banca IMI and equity derivatives analyst at Lehman Brothers and a quantitative fund manager at San Paolo IMI Asset Management. He holds a bachelor's degree in economics from Università Bicconi in Milan and completed his M.A. in economics at Università Bicconi and MS in financial mathematics at the University of Chicago.

Andrea Pallavicini, Head of Financial Engineering

BANCA LEONARDO

Andrea Pallavicini is Head of Financial Engineering at Banca Leonardo in Milan. Previously, he was Head of Equity and Hybrid Models in Banca IMI, working also on dynamical loss models, interest-rate derivatives, smile modelling and counterparty risk. He obtained a degree in Astrophysics, and a Ph.D. in Theoretical and Mathematical Physics from the University of Pavia.

15.50

Audience Q&A & Industry Round Up

16.00 Afternoon Tea

16.30

The Gaussian Copula Strategy Lab

Session 1: 40 Minutes

New Ways Of Understanding The Gaussian Copula

Better Pricing & Hedging Of Basket Credit Derivatives Using The Gaussian Copula

- How the Gaussian copula model can be seen as a replication model
- Break-even correlation : the cornerstone pricing/hedging parameter
- The link between spread volatilities, spread correlations and pricing correlations
- Some comparative advantages of the Gaussian copula model

Oliver Vigneron, Managing Director

JP MORGAN

Oliver Vigneron is co-heading credit correlation and exotics trading globally at JP Morgan. He previously held a similar position at BNP Paribas.

Jean-David Fermanian,

Professor Of Finance & Statistics

CREST/ENSAE

Previously, Jean-David was Senior Credit Derivatives Quant at BNP-Paribas (London). Just prior to joining BNP-Paribas, he was the Head of risk methodologies (as CIB Paris). His research interests include particularly survival analysis, credit portfolio modeling and copulas. He has published numerous articles in economics, statistics and financial econometrics.

Session 2: 40 Minutes

On The Gaussian Copula Credit Model:

A Risk Neutral Approach

- A Revisit of the theoretical foundation of Gaussian copula credit model
- Single name historical and risk neutral default probabilities
- Risk neutralization of credit portfolio model
- Numerical example and conclusion

David Li

Chief Risk Officer

CHINA INTERNATIONAL CAPITAL CORPORATION

David X. Li is currently the chief risk officer and a managing director at China International Capital Corporation (CICC) where he is responsible for firm-wide risk management and quantitative analytics. He is also an adjunct professor of quantitative finance and actuarial science at the University of Waterloo.

17.50

Audience Q&A & Industry Round Up

18.00

Champagne Roundtable Discussion Groups

18.30

The Global Derivatives Trading & Risk Management Cocktail Party

Stream C:

Advanced Pricing & Hedging Of Equity Derivatives In Uncertain Times

09.00

Extended Session

Stochastic Volatility Models:

Dynamic Versus Static Properties Of Smiles - A Structural Connection

- Quantifying the dynamics of the ATM volatility: introducing the Skew Stickiness Ratio
- A model-independent relationship linking the SSR and the decay of the ATM skew
- Admissible range for the SSR - type I and type II models and the scaling of the ATM skew with maturity
- Market behaviour of the SSR
- Arbitrating the discrepancy between implied and realized values of the SSR for short maturities

Lorenzo Bergomi

Head of Quantitative Research, Global Markets

SOCIETE GENERALE

Lorenzo Bergomi has been with SG since 1997. Originally trained in electrical engineering, Lorenzo obtained a PhD in theoretical physics in the theory group at CEA, Saclay, France, then spent two years in the physics department of MIT before joining SG. While his initial focus was on equity derivatives, his current mandate is global.

Main Conference

Wednesday 19 May 2010

DAY
2

10.20 Afternoon Tea

Stochastic Local Volatility Models

- SV expansion in a local volatility model
- Full stochastic local volatility models
- Forward and backward finite difference solution
- The multi asset case and Monte Carlo

Jesper Andreasen

Global Head of Quantitative Research

DANSKE BANK

Jesper Andreasen heads the Quantitative Research Department at Danske Bank in Copenhagen. Prior to this, Jesper has held positions in the quantitative research departments of Bank of America, Nordea, and General Re Financial Products. Jesper's research interest include: term structure modeling, volatility smiles, and numerical methods. In 2001 Jesper received Risk Magazine's Quant of the Year award.

11.00

Audience Q&A & Industry Round Up

Morning Coffee

11.40

Simultaneously Pricing Options On A Multiplicity Of Stocks:

Calibrating 9 Surfaces Of Options On ETF's

- Three easily estimated Non-Gaussian models of dependence in high dimensions.
- Evaluating high dimensional model performance for joint distributions.
- Introducing the correlation signature of a joint distribution.
- Risk neutral correlation signatures and their physical counterparts

Dilip Madan

Professor of Mathematical Finance

ROBERT H. SMITH SCHOOL OF BUSINESS,
UNIVERSITY OF MARYLAND

Dilip Madan specializes in Mathematical Finance. Currently he serves as a consultant to Morgan Stanley, Caspian Capital LLC, Citigroup and Bloomberg and has also consulted for the FDIC and Wachovia Securities. He is a founding member and immediate Past President of the Bachelor Finance Society, recipient of the 2006 von Humboldt award in applied mathematics, Managing Editor of Mathematical Finance and the Review of Derivatives Research, Associate Editor for the Journal of Credit Risk, and Quantitative Finance. His work is dedicated to improving the quality of financial valuation models, enhancing the performance of investment strategies, and advancing the understanding and operation of efficient risk allocation in modern economies.

12.20

Variance Swaps

How Can We Bring The Market Back To Life & What Can Be Done To Improve Stochastic Interest Swaps?

Speaker to be confirmed

13.00

Audience Q&A & Industry Round Up

Lunch & Networking Break

14.30

Barrier Options Strategy Lab

Session 1: 40 Minutes

Autocallables:

Pricing, Smoothing & Risk Managing Autocallables

- Description of main types of Autocallables available in Equity Derivatives
- Product discontinuities smoothing in PDE and American MC; lessons from the crisis in terms of smoothing pricing policy
- Dividend risk dynamics versus spot - dividend model risk
- Interest rate risk dynamics versus spot - stochastic rate model risk
- Vega dynamics versus spot and vol - stochastic volatility model risk
- Discussion of possible strategies to hedge these risks

Nicolas Grandchamp Des Raux

Managing Director, Global Head of Quantitative Research, Equity Derivatives, HSBC

Nicolas Grandchamp des Raux is a graduate of Ecole Polytechnique and ENSAE. After a brief stint as an academic researcher at New York University with Marco Avellaneda, he joined Paribas in 1999, and later GNP-Paribas, where he worked as equity and fund derivatives quant. He moved to HSBC in 2004 as the Global Head of Equity Derivatives Quant Team and is now Managing Director.

Session 2: 40 Minutes

Barrier Options

Robust Static Super-Replication of Barrier Options

- Static hedge portfolios are very sensitive with respect to changes of the volatility surface
- To prevent losses, we derive static superhedges with robustness against volatility, skew and liquidity risk
- Empirical results confirm the performance of the robust static hedge

Jan H. Maruhn, Quantitative Researcher For Equities, Commodities & Funds

UNICREDIT

Jan H. Maruhn is working as a quantitative researcher for equities, commodities and funds in the Corporate and Investment Banking division of UniCredit. His scientific interests focus on optimization in finance as well as the pricing and hedging of derivatives. Jan holds a PhD, diploma and Master of Science in mathematics, with emphasis on numerical analysis and mathematical finance.

15.50

Audience Q&A & Industry Round Up

16.00 Afternoon Tea

16.30

Exploring The Stochastic Volatility Model In Multi-Dimensional Settings

How Do You Go Beyond The Simple Model & Show How The Correlation Appears The Impact On Products?

- Stochastic volatility and associated correlation skew
- Correlation calibration using a parametric form
- Impact on products

Vladimir Lucic

Head of Equity Derivatives Quantitative Analytics

BARCLAYS CAPITAL

Vladimir Lucic is Head of Equity Derivatives Quantitative Analytic, Barclays Quantitative Analytics working on modelling equity derivatives and related hybrids. He has spent nine years working as a front office quant. Prior to joining Barclays in 2007 he worked at Nomura International plc and TD Securities.

17.10

Stochastic Volatility Models

- Achieving The Robust Calibration Of Stochastic Volatility Models
- Calibration issues for the stochastic volatility model
- Using VIX information to make calibration more robust
- VIX of VIX and vol of vol

Wim Schoutens

Research Professor

CATHOLIC UNIVERSITY OF LEUVEN

Wim Schoutens has a degree in Computer Science and a PhD in Science, Mathematics. He is a research professor at the Department of Mathematics at the Catholic University of Leuven, Belgium. He is also a supervisor of the Multivariate Risk Modelling group at EURANDOM Institute in Eindhoven, The Netherlands. He is an expert advisor to the European Commission (DG-Competition) on "State aid assessment of valuation of impaired assets and of asset relief measures". Wim is author of the Wiley books "Lévy Processes in Finance: Pricing Financial Derivatives" and "Lévy Processes in Credit Risk".

17.50

Audience Q&A & Industry Round Up

18.00

Champagne Roundtable Discussion Groups

18.30

The Global Derivatives Trading & Risk Management Cocktail Party

Stream D:

Cutting Edge Innovations In Interest Rate Modelling

09.00

SABR Strategy Lab

Session 1: 40 Minutes

Fixing SABR's Asymptotic Approximation

How To Improve The HAGAN Approximation For Long Expiries And Out-Of-The-Money Options, With Implications For Hedging

- The origin of the problem: long expiries and out-of-the-money options - the known unknowns
- New problems: short expiries and at-the-money options - the (previously) unknown unknowns
- Obtaining more accurate approximations for long maturities, out-of-the-money strikes
- Implications for delta hedging

Riccardo Rebonato

Head Of Front-Office Risk Management & Head Of Quantitative Analytics, GBM

RBS

Bio can be found on Page 5

Session 2: 40 Minutes

Volatility & SABR

- Asymptotics For Local Volatility And SABR Models
- We use the heat kernel expansion to obtain highly accurate approximations for call prices in time inhomogeneous
- local volatility models
- These are combined with asymptotic expansions for the implied
- Volatility in order to obtain highly accurate expansions for implied volatility
- Using the Gyongy-Dupire projection idea we derive highly accurate
- Expansions for implied volatility in - SABR models
- If time permits we will discuss extensions to local-volatility Heston models

Peter Laurence

Professor

UNIVERSITA DI ROMA 1

Peter Laurence is Professor of Mathematics in the Statistics Faculty of Universita di Roma, "La Sapienza". He is an applied mathematician with a wide spectrum, having published over 40 papers in leading mathematics and physics Journals. In 1997 he began redirecting his research efforts towards quantitative finance. His principle collaborators are Tai-Ho Wang.

Session 2: 40 Minutes

Log-Normal, Normal Or Square Root?

Choosing The Right Exponent In SABR

- Empirical Evidence And Implications For Hedging
- The importance of the true exponent of interest-rate processes in finance: drawdowns, real-world simulations, pricing, hedging and more
- Scaling of the rate distribution with the level of rates

- A simple and stable universal law across currencies, maturities, tenors and historical periods
- Implications for hedging - and for everything else

Riccardo Rebonato

Head Of Front-Office Risk Management & Head Of Quantitative Analytics, GBM

RBS

Bio can be found on Page 5

11.00

Audience Q&A & Industry Round Up

11.05

Morning Coffee

11.40

Determining The Effects Of Funding And Collateral In Derivatives Pricing

Vladimir Piterberg

Global Head Of Quantitative Analytics Group,

BARCLAYS CAPITAL

Bio Can Be Found On Page 5

12.20

Application Of Stochastic Local Volatility Model For Pricing Exotic Options

- Volatility Surface and Local Volatility Function;
- Stochastic Local Volatility Model (SLVM) Specification;
- Lattice Implementation for SLVM;
- Numerical Applications of SLVM for Pricing Exotic Derivatives

Marat Kramin

Director

WELLS FARGO SECURITIES & INVESTMENT GROUP

Prior to this current role, Marat worked as a Vice President with Wachovia's Corporate and Investment Banking Quantitative Analysis Group within the Fixed Income Department and in the Market Risk Management division in each of model validation and model risk responsibilities. Before joining Wachovia, Marat was a Senior Financial Engineer in the Portfolio Analytics Group at Farmie Mae. Marat holds both PhD and MS in Applied Mathematics from Kazan State University, Kazan, Russia. In addition Marat also holds an MS in Finance from The George Washington University. Marat has published various articles in peer reviewed journals. Marat's research has been in the area of pricing and hedging various exotic interest rate, FX and hybrid derivatives.

13.00

Audience Q&A & Industry Round Up

13.10 Lunch & Networking Break

14.30

Implied Volatility Asymptotics:

A Twist On The Non-Linear PDE Approach

- Short-time asymptotics for the implied volatility, starting from the non-linear PDE for the implied volatility
- This is transformed into a non-linear integral equation that is more amenable to treatment
- Using formal Picard iteration, one obtains short-time approximations
- Applications to one-factor local volatility models, SABR, and effective-skew formulae a la Piterberg

Henrik Rasmussen

Global Head Of Rates Research

BANK OF AMERICA MERRILL LYNCH

Henrik has been in his current role since 2006. Previously he has held various front office quant positions in the Rates and Cross Asset areas. Prior to that Henrik was in academia holding a part time lectureship at the University Of Oxford and various post-doctoral research positions in UK, France & Italy. Henrik holds a PhD in Mathematics from the University Of Cambridge.

15.10

Solving The Puzzle In The Interest Rate Market

Modelling Basis Spreads And The Mismalignments Of The Interest Rate Curves In A Market With Counterparty And Liquidity Risk

- Explaining and Modelling Basis Spreads as credit and liquidity options
- Bridging the gap between FRAs, Swaps and their standard replication strategy
- Mathematical modelling of collateralized derivatives tied to risky Libor

Massimo Morini

Head of Credit Models

BANCA IMI

Massimo Morini holds a PhD in Mathematics and a MSc in Economics. He is Head of Credit Models and coordinator of financial modelling research at IMI Bank of Intesa San Paolo, where in the past he worked as a senior quant on interest rate and credit derivatives with Damiano Brigo and Fabio Mercurio. Massimo is Professor of Fixed Income at Bocconi University. He was Research Fellow at Cass Business School of London City University with Professor Nick Webber. He also teaches at Polytechnic of Milan, Milan University, Bologna University.

15.50

Audience Q&A & Industry Round Up

16.00

Afternoon Tea

"The perfect event to catch up with the cutting-edge developments and to witness the seeds of future trends in derivatives and risk management"

Bruno Dupire, Quantitative Research
BLOOMBERG

16.30

Long-Dated Hybrids

Exploring The Latest Techniques For Pricing & Risk-Managing Long Dated Hybrids

- The Long Dated Equity market
- The Long Dated FX market
- Local Volatility Versus Stochastic Volatility

Messaoud Chibane, Global Head Of Quantitative Research Group, SHINSEI BANK

Messaoud Chibane has been working as a quant since 1997. He has held various senior quant positions at Merrill Lynch and Bank Of America specializing in Interest Rates and long dated FX modeling. He currently runs Shinsei Bank Quantitative Analytics team globally. He holds an engineering degree from Ecole Centrale Paris and a DEA in financial mathematics from La Sorbonne University.

17.10

Multi-Factor SABR

A Multi-Factor SABR Model For Forward Inflation Rates

- Forward CPI market models
- Forward inflation rates market models
- ZC vs NYF volatilities
- Market modeling with SABR dynamics
- Correlation patterns and calibration examples

Nicola Moreni, Senior Quantitative Analyst, BANCA IMI

Nicola Moreni has been in his current role since 2005. He is in charge of developing quantitative models to price interest rates and inflation-linked derivatives, with a particular focus on short rate models and inflation market models with stochastic volatility. He furthered on his studies in Physics and Mathematical Finance at the University of Pavia and at the University of Paris 6 (MSc, PhD).

17.50

Audience Q&A & Industry Round Up

18.00

Champagne Roundtable Discussion Groups

18.30

The Global Derivatives Trading & Risk Management Cocktail Party

Main Conference Day Three: Thursday 20 April 2010

08.20

Morning Coffee

08.40

Chairman's Opening Welcome

08.45

GUEST QUANT ADDRESS

Theories, Models & Metaphors In Science And Finance

- Scientific theories deal with the natural world they model on their own terms, and can achieve great truth and accuracy
- Models in finance are not theories; they are closer to metaphors that try to describe the object of their attention by comparing it to something else they already understand via theories
- Models are always idealizations that sweep dirt under the rug
- Good models and good modelers make explicit the sweeping and the nature of the dirt



Emanuel Deman, Professor COLUMBIA UNIVERSITY & Head of Risk, PRISMA CAPITAL PARTNERS

Emanuel Deman is a professor at Columbia University and director of their program in financial engineering, and is also the Head of Risk at Prisma Capital Partners, a fund of funds. Dr Deman obtained a PhD in theoretical physics from Columbia in 1973. Between 1973 and 1980 he did research in theoretical particle physics, and from 1980 to 1985 he worked at AT&T Bell Laboratories. In 1985 Dr Deman joined Goldman Sachs' fixed income division where he was one of the co-developers of the Black-Derman-Toy interest-rate model. From 1990 to 2000 he led the Quantitative Strategies group in the Equities division, where they pioneered the study of local volatility models and the volatility smile. He was appointed a Managing Director of Goldman Sachs in 1997. In 2000 he became head of the firm's Quantitative Risk Strategies group. He retired from Goldman Sachs in 2002. In 2000 he was named the IAFE/Sungard Financial Engineer of the Year. His book, My Life as A Quant: Reflections on Physics and Finance was one of Business Week's top ten books of 2004.

09.30

The Great Model Debate

GOING BACK TO BASICS?

Is Going Back To Basics In Our Modelling Techniques Symptomatic Of A Long Term Contraction In The Derivatives Market Or Is It A Necessary Step Back To Enable To Industry To Move Forward & Innovate Once More?



Emanuel Deman, Professor & Director, Financial Engineering Program, COLUMBIA UNIVERSITY

Bio can be found above



Alex Bernard, Global Head Of Structured Credit Products, DEUTSCHE BANK

Alex Bernard is responsible for managing globally the bank's credit correlation risk, including tranches of synthetic CDOs (Correlation Book) and Longevity Derivative re-packagings. Alex joined DB in 2006 from Bank of America where he ran Global Structured Credit Products and International Credit Trading (including Credit Proprietary), as well as the International Equity Derivative and Equity Finance platforms. Alex has been trading Credit for the past 13 years, having started his career at BNP Paribas within Emerging markets.



Leif Andersen Global Head GCIB Quantitative Research BANK OF AMERICA MERRILL LYNCH

Bio can be found on Page 5

John Lunt, Senior Interest Rate & FX Quant RABOBANK INTERNATIONAL

John Lunt has been working in the City since 1994 when he started at NatWest Markets in the IR Quant group. Prior to that, he read pure maths at Cambridge, and then did a Ph. D. in Probability Theory at Edinburgh University. After NatWest, he went on to lead Quant groups in Interest Rates and FX at Chase Manhattan, and then at JPMorgan as head of the model development group for IR and hybrids. He is now senior IR and FX Quant at Rabobank International.

10.20

5 Minute Transfer Break

10.25

Quantitative Problem Solving Working Groups

Get Your Questions Answered By The Experts! Make The Most Of Your Time At The Conference & Pose Your Related Questions To The Expert Panel & The Gathering Of Relevant Practitioners. Send Problems Over In Advance Or Ask Them On The Day

10.25 - 11.00

Equity Taskforce

Lorenzo Bergomi, SOCIETE GENERALE Bruno Dupire, BLOOMBERG

10.25 - 11.00

Interest Rates TaskForce

Leif Andersen, BANK OF AMERICA Jesper Andreasen, DANSKE BANK

10.25 - 11.00

Credit TaskForce

Peter Jaeckel, OTC ANALYTICS Martin Baxter, NOMURA

11.00

Morning Coffee

Stream A: New Strategic & Practical Thinking For A Changing Derivatives Industry

11.30

Computational Finance Strategy Lab

Session 1: 40mins

Computational Finance

High Performance Pricing With Fourth Level BLAS Extensions

- Financial modelling without analytic solvability
- Implementing fourth level BLAS extensions on GPU coprocessors
- CPU cache optimization strategies for scenario generation
- Global calibration
- Likelihood ratio methods for risk management

Claudio Albanese, Professor, KINGS COLLEGE LONDON

Claudio Albanese has a PhD from ETH Zurich and pursued an academic career up to achieving the title of professor. He held regular faculty positions at the University of Toronto and Imperial College and currently lectures at King's College London. Claudio's primary occupation is to consult for financial firms about valuation methodologies, risk management and high performance computing.

Session 2: 40 Mins

Automatic GPU Computing For Derivative Pricing Models:

- Learn how to automatically generate GPU-enabled pricing and risk model source code for any financial derivative valued using a single or multi-dimensional partial differential equation (PDE) or stochastic differential equation (SDE)
- Learn how to accelerate the performance of your pricing model by up to 200X
- Learn how SciFinance@ automatically addresses key CUDA programming issues and makes optimal GPU settings

Curtis Randall, Ph.D, Executive Vice President SCICOMP INC.

Curt has worked in computational finance, computational physics and engineering for nearly 35 years, including positions at Schlumberger and the Lawrence Livermore National Laboratory. He holds a Master's degree in Nuclear Engineering from the University of Wisconsin and a Doctoral degree in Applied Physics from the University of California. He has co-authored the book entitled Pricing Financial Instruments - The Finite Difference Method, which was published by John Wiley & Sons, Inc. in 2000. At SciComp, Curt directs the development of financial applications and algorithms, and is the Company's principal liaison to the derivatives segment of the financial risk management market.

12.50

Model Risk:

Quantifying Model Risk Using Multiple Snap Shots Of The Market

Speaker to be confirmed

13.30

Lunch

14.30

Anatomy Of Crashes:

How Leverage Creates Fat Tails And Clustered Volatility

- Present a simple agent based model of financial markets including value investors, noise traders and banks
- Results show how the levels of leverage in the system

- influence price fluctuations and systemic stability
- Demonstrate mechanisms by which control of individual risk increases systemic global risk

Stefan Thurner, Professor Of Complex Systems MEDICAL UNIVERSITY OF VIENNA

Stefan Thurner is a professor of complex systems at the Medical University of Vienna and since 2007 external professor at the Santa Fe institute. After his completion of his first PhD in theoretical physics at the Technical University of Vienna in 1995 he held postdoc research positions at Humboldt Universität zu Berlin and Boston University before he joined the University of Vienna in 1999 and later Medical University. In 2001 he finished both a second PhD in economics at the University of Vienna and got his Habilitation in theoretical physics. About this time he began to shift his focus from theoretical physics to biological and complex systems, which are now his main areas of scientific work. Since 1995 Thurner has published more than 120 scientific articles in fundamental physics (topological excitations in quantum field theories, alternative entropy formulations), applied mathematics (wavelet statistics, fractal harmonic analysis, diffusion processes), complex systems/network theory (evolutionary systems), life sciences (heart beat dynamics, gene regulatory networks, cell motility, bioinformatics), econophysics (price formation, banking regulation, systemic risk) and lately in social sciences (opinion formation and bureaucratic inefficiency). He holds 2 patents.

15.10

Speeding Up Risk In Monte Carlo: Adjoint Algorithmic Differentiation & Callable Options

- Monte Carlo and Callable Options
- A general paradigm: Adjoint Algorithmic Differentiation
- Discussion and Results

Luca Capriotti, Vice President, Investment Banking Division, CREDIT SUISSE GROUP

Luca works in the Global Modeling and Analytics Group (GMAAG) in the New York city office. He is currently focusing on modeling in the areas of Credit, Commodities, Risk Management of a Bank's own credit, Counterparty Credit Risk Management. He is also working on developing efficient and general multi-asset Monte Carlo engines supporting fast calculation of Greeks. Previous to this role, he was part of the cross-asset modelling R&D group of GMAAG in the London office.

15.50

Afternoon Tea

16.10

Copulas, What Copulas?

- Copulas: useful or red-herring?
- What do we want to model: copulas, non linear correlations and tail correlations
- Empirically and intuitively motivated copula models.

Jean-Philippe Bouchaud, Head of Research CAPITAL FUND MANAGEMENT

Jean-Philippe Bouchaud became interested in theoretical finance in 1991. He founded the company Science & Finance in 1994 with J.-P. Aguilar, that merged with Capital Fund Management (CFM) in 2000. He now oversees, with Marc Potters, the research team of CFM (35 PhDs) and teaches statistical mechanics and finance at Ecole Polytechnique. He wrote the book Theory of Financial Risk and Derivative Pricing.

16.50

In Favour of Entity-Specific Valuation

- Hedging costs are entity-specific
- Where there is no market in a product, we should mark it to hedging costs
- The talk will explore some implications, with examples

Paul Barden, Head Of Quantitative Strategies, UBS

Paul Barden has worked for UBS and its predecessors since 1994 as a quant and exotic options trader. He is currently the Head Of Quantitative Strategies and immediately prior to that he was a Managing Director and Global Head of Equities Quantitative Strategies.

17.30

End Of Main Conference

Stream B: The latest Innovations In FX & Interest Rate Derivatives Modelling & Trading

11.30

Demystifying FX Volatility

- FX Volatility quoting conventions, building an accurate volatility surface
- Calibrating local vol and stochastic vol models to the FX market;
- FX volatility for pegged, managed or illiquid currency pairs
- Determining long dated FX volatility using a 3 factor model
- Using liquid market volatility quotes to determine volatility in illiquid currencies

Faisal Yousof, Global Head of Quantitative Risk & Valuation Group, HSBC

Since 2001 Faisal has held various positions at HSBC Investment Bank based in Canary Wharf London. Previously to his current role he had been the Global Head of Derivative Analytics, Product Control, for HSBC since 2006. Faisal has had extensive exposure to modeling and pricing problems within FX, Fixed Income, Credit, Equity and Hybrid Derivatives. His current role spans issues across all of these asset classes.

12.10

Perturbed Gaussian Copula:

Introducing The Skew Effect In The Co-Dependence

- Description of the perturbed copula approach
- Calibration to market
- Physical interpretation of the action of the perturbed copula
- Worked example: valuation of FX quanto options to a third currency. Comparison of Gaussian and perturbed copulas and a local volatility model with constant correlation.

Alberto Elices, Senior Quantitative Analyst, Risk Department, GRUPO SANTANDER

A. Elices earned a PhD in Power Systems engineering at Pontificia Comillas University (Madrid, Spain) and a Masters in Financial Mathematics in the University of Chicago. He is a senior quant team member in the model validation group of the Risk Department at Grupo Santander in Madrid after working in a hedge fund in New York.

12.50

Modelling Of Emerging Markets Derivatives

- Dealing With Upward Sloping Smiles, Hybrid Modelling & Illiquid Markets
- The increased importance of Emerging Markets in financial markets
- Specific challenges of derivatives pricing and risk management in EM
- How to deal with upwards sloping smiles in EM rates
- Advances in hybrid modelling with Rates, FX, credit and counterparty risk
- Impact of stochastic finbias, illiquid markets and friction costs
- Modelling dependencies between sovereigns, companies and FX rates
- Impact of stochastic finbias, illiquid markets and friction costs

Christoph Burgard

Global Head of Equity, Credit, EM and Credit-Counterparty Derivatives Modelling
BARCLAYS CAPITAL

Christoph Burgard is Global Head of Equity, Credit, Credit-Counterparty and EM derivatives modelling at Barclays Capital. After obtaining a PhD in particle physics from Hamburg University he was a fellow at CERN and DESY before joining Barclays Capital in 1999.

13.30

Lunch & Networking Break

14.30

Quanto Skew:

- A Fresh Look At Cross-Currency Options
- Common quanto approximations in the presence of skew
- A simple but consistent model for quanto skew
- Closed form solution for prices
- Analytical approximation for quantoed volatilities

Peter Jaeckel

Managing Director

OTC ANALYTICS

Peter Jaeckel received his D. Phil. in Physics from Oxford University in 1995. After a short period in academic research, he migrated into quantitative analysis and financial modelling in 1997, when he joined Nikko Securities. After Nikko closed down its European operations in 1998, he changed to NatWest, which later became part of the Royal Bank of Scotland group. In 2000, he moved to Commerzbank Securities' product development group, and headed up the team jointly with a co-head from 2003. From September 2004 to May 2008, he was with ABN AMRO as Global Head of Credit, Hybrid, Inflation, and Commodity Derivative Analytics. Since June 2008, he has been working as an independent consultant under the company name OTC Analytics. Peter Jaeckel is the author of the book "Monte Carlo methods in finance" (2002) and a series of articles on financial mathematics and derivatives models some of which can be found at <http://www.jaekel.org>.

15.10

The Stochastic Intrinsic Currency Volatility Model

- A SABR inspired model for forex rates
- New SABR style formula for forex volatilities
- Achieving symmetry for inverse forex rates and cross rates
- Calibration to market volatility skew and smiles

Paul Doust

Head of Quantitative Analysis
ROYAL BANK OF SCOTLAND

Paul Doust has been working in the financial markets since 1987 in a variety of trading, structuring and quantitative roles. As a complex derivative trader in the early 1990's, he did some of the early work on convexity adjustments, before moving into structured credit in the late 1990's. He now runs the Quantitative Analysis team at the Royal Bank of Scotland, where the focus is the application of quantitative techniques to solve client problems.

15.50

Afternoon Tea

16.10

Extended Session

Models Of The Term Structure Of Interest Rates:

- An Overview
- What is the purpose and use of term structure models?
- What is the theory underlying term structure models?
- How are term structure models constructed?
- What are some of the commonly used models?
- How can the models be classified and compared?

Oldrich Vasicek

Special Advisor
MOODY'S KMV

Dr. Oldrich Alfons Vasicek is a founding partner of KMV Corporation and a Special Advisor to Moody's KMV. He has published over 30 articles in financial and mathematical journals and has received a number of honors, including the Graham and Dodd Award, the Roger F. Murray Prize, the Award of the Institute for Quantitative Research in Finance, the IAFE Financial Engineer of the Year Award, and the Risk Magazine Lifetime Achievement Award.

17.30

End Of Main Conference

Stream C:
Cutting Edge Techniques In Commodities Trading & Risk Management

11.30

Boom, Gloom And Spikes In Commodity And Shipping Market:

Implications For Hedging And Derivatives Trading?

Héllyette Geman

Professor of Finance

BIRKBECK, UNIVERSITY OF LONDON & ESSEC
GRADUATE BUSINESS SCHOOL

Bio can be found on Page 5

12.10

The Evolution Of Energy Derivatives Markets: A Year In Review

- Regulatory and credit impact on market participants
- Behavioral changes and structural instrument repricing
- Unique opportunities in volatility and correlation trading

Ilia Bouchouev, Managing Director,
Global Head of Energy Derivatives

KOCH SUPPLY & TRADING

For the last ten years Ilia Bouchouev has been managing the global energy derivatives business for Koch Industries, the world second largest privately held company. Koch Structured Products group became one of the most active liquidity providers of energy derivatives to corporate end-users and hedge funds with desks in New York, Wichita (Kansas), Geneva, and Singapore. The group has pioneered a number of unique energy derivatives instruments and been recognized as a leading quantitative volatility trader in commodities.

12.50

Energy Derivatives Trading

The Pricing Of Swing Options & Corporate Assets

- Pricing Methodology
- The Heights of Sophistication
- The Nobel Prize
- Dynamic Hedging
- Clinical Finance
- Residual market risks
- Managing The Book
- Swing Option Pricing
- Risk Management

Lionel Greene, Senior Advisor, EDF TRADING

Lionel Greene oversees all aspects of Derivatives and Options trading across the company. He received a PhD in civil engineering from Leeds University and was employed as an Offshore Engineer before moving into finance. Lionel started in finance as a Quantitative Analyst at O'Connor & Associates (now part of UBS) and later became a structured derivatives trader/trading manager at various other financial institutions including Salomon Bros (now part of Citibank), Bank of America and IBJ (now part of Mizuho) in the Equity, Interest Rate and FX and Commodities businesses. Lionel's interests include quantitative finance, econophysics, quantitative statistical arbitrage and trading psychology.

13.30

Lunch & Networking Break

"It was great to be a part of the 2009 event – it is a must-attend event and especially so in the current climate"

Jay Caauwe, Director,
CBOE FUTURES EXCHANGE

14.30

Carbon Trading Analytics:

- Mapping & Modelling Carbon Price & Risk Drivers
- Price and risk drivers
- Delivery risk on carbon credits
- Pricing Emission Reduction Purchase Agreements (ERPA) contracts
- Hedging carbon exposure with secondary and primary markets

Marcelo Labre

Global Head Of Analytics & Carbon Markets Specialist
STANDARD BANK

In his capacity Marcelo Labre leads the development of the bank's carbon analytics, has structured various carbon finance transactions and also performs carbon origination in Asia. His experience in finance includes trading and risk, investment and corporate banking, marketing and insurance. He is an electrical engineer with experience in energy efficiency projects and urban electricity distribution, has a Masters in Finance from London Business School and is completing a PhD in Mathematical Finance from Imperial College London.

15.10

Estimating Exponential Affine Models With Correlated Measurement Errors:

Reducing The Biases In Model Parameter Estimates

- Overview of the use of exponential affine models in fixed income and commodity derivative pricing, hedging and forecasting
- Using Kalman filtering and its extensions to calibrate yield curve and forward curve models
- Practical techniques for specifying realistic measurement errors in state space model forms
- Numerical results demonstrating parameter biases with standard techniques and their reduction using improved specifications

Michael Dempster

Professor Emeritus, Centre for Financial Research
UNIVERSITY OF CAMBRIDGE

Michael Dempster has taught and researched in leading universities on both sides of the Atlantic and is currently Editor-in-Chief of Quantitative Finance. He has been consultant to a number of global financial institutions and is regularly involved in executive education in financial engineering and risk management around the world.

15.50

Afternoon Tea

16.10

Designing A Commodities Exotics Model

Alan Stacey
Quantitative Analyst
NOMURA

Alan Stacey was an academic for ten years, mostly in the pure mathematics department in Cambridge, but also including two years as a professor at UCLA, working primarily in probability and combinatorics. He joined the Quantitative Research Centre at the Royal Bank of Scotland.

16.50

Concluding Commodities Panel Discussion

Michael Dempster
Professor Emeritus, Centre for Financial Research
UNIVERSITY OF CAMBRIDGE

Bio can be found above

Alan Stacey
Quantitative Analyst
NOMURA

Bio can be found above

Marcelo Labre

Global Head Of Analytics & Carbon Markets Specialist
STANDARD BANK

Bio can be found above

17.30

End Of Main Conference

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"I Always Tell People That Global Derivatives & Risk Management Is The Best Conference In Our Field"

David Li, CICC

www.icbi-derivatives.com



Global Derivatives Trading & Risk Management 2010

17 - 21 May 2010

Hotel Concorde La Fayette, Paris

Advanced Pricing, Hedging & Risk Management Of Credit, Interest Rates, Equity, FX, Commodities, Inflation & Volatility Derivatives For The New Financial Era

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Numerix is the global standard in finance for structured products pricing and risk management. Our flexible, crossasset software solutions empower buyers and sellers of derivatives to price and manage their risk with unprecedented Accuracy, Speed and Power. NumeriX Tools and Pricing & Risk Management Engines provide a foundation that unifies business, information technology and quantitative disciplines within our client organizations.

OUR CLIENTS

- Investment and savings banks, Supranationals, Asset Managers, Hedge funds
- Auditors and consultancies
- 3rd party financial services software providers

Our clients use Numerix software to price the most complex segment of trading room products, "exotic" derivatives, and to hedge and manage the risk of interest rate, foreign exchange, equity and credit portfolios. Numerix software solutions include precise calibration, well-researched and implemented market valuation models, as well as proprietary tree algorithms and Monte Carlo simulation. NumeriX Tools and Pricing & Risk Management Engines can be easily integrated within our client's information technology environment. Using NumeriX software allows portfolio managers and risk managers to safely and accurately price any traded interest rate, foreign currency, equity, or credit derivative instruments.

BENEFITS

- Our solutions allow users to easily structure and price new, complex instruments when margins are highest and without programming.
- Integration with third party and in-house systems enable middle office professionals to analyze and manage risk effectively across asset classes.
- Numerix solutions reduce development time and costs, creating a software environment that requires less maintenance and improve coordination and performance across business, information technology and quantitative functions.

COMPANY PROFILE - Numerix has offices in New York, London, Singapore, Hong Kong and Tokyo. Our business professionals originate from the derivatives trading environment, while our research and development team benefits from PhD level expertise in theoretical physics, computer science and applied mathematics. Today, NumeriX employs over 150 people worldwide. Numerix can be found at www.numerix.com

CONTACT - Nick Haining, Managing Director, Europe Tel +44 (0)207 648 6100 haining@numerix.com

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With 23 years experience Murex has unmatched competence in financial markets solutions. A key differentiator is the high R&D investment rate as Murex continually seeks to be capital market professionals addressing market challenges rather than pure software vendors. In 2008

Murex introduced a calibration stable stochastic/local volatility hybrid model with unprecedented transparency of volatility dynamics. The focus on volatility continues; 'What is the logical quotation, interpolation, observation space?' Many markets work in 'strike' or 'moneyness' space. Neither are time comparable. The FXO market works in 'delta space' which is theoretically time consistent but is compromised by market conventions. Delta based methods raise questions; Spot or forward delta? Which model? Which dynamic? etc. They are also computationally intensive. Murex are now publishing a volatility surface framework addressing these issues using established financial mathematical methods to generate a cross-asset interpolation space solved using a new closed form solution.

If you would like to get involved in this prestigious conference, please contact Greg Harley on +44 (0) 20 7017 7225 or gharley@icbi.co.uk

Register Now – Five Easy Ways!

1. Fax this form on +44 (0) 20 7017 7807
2. Post this form to: Global Derivatives 2010 Conference Administrator, ICBI, 8th Floor, 29 Bressenden Place London SW1E 5DR, UK
3. Telephone us on +44 (0) 20 7017 7200
4. Email: info@icbi.co.uk
5. Via the website: www.icbi-derivatives.com Always quote your VIP CODE when registering.

“Global Derivatives strikes the perfect balance between technical presentations, top-level discussions and industry networking time”

Vladimir Piterbarg, Global Head Of Quantitative Analytics,
BARCLAYS CAPITAL

Please do not cover VIP code
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DATES

Main Conference:
18-20 May 2010

Summit:
17 May 2010

Workshops:
17 & 21 May 2010

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VENUE DETAILS

Hotel Concorde la Fayette
3, Place de Général Kœnig
75850, Paris Cedex 17
France
Tel: +33 (0) 1 40 68 50 68
Fax: +33 (0) 1 40 68 50 43

Download hotel booking form at
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Email Address _____ Direct Fax _____

Person who will attend if I have to cancel:

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YOUR COMPANY DETAILS

Company Name: _____ Nature of Company's business: _____
Address: _____
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	DATES	Bookings received by 12 March 2010	SAVE	Bookings received by 23 April 2010	SAVE	Bookings received after 23 April 2010	SAVE
<input type="checkbox"/> 5 Day Package: Conference, Summit & 1 Workshop (please specify below) <input type="checkbox"/> Volatility & Correlation <input type="checkbox"/> Counterparty Credit Risk <input type="checkbox"/> Interest Rates	17- 21 May 2010	£4,397 (+VAT@19.6%) = £5,258.81	£700	£4,597 (+VAT@19.6%) = £5,498.01	£500	£4,697 (+VAT@19.6%) = £5,617.610	£400
<input type="checkbox"/> 5 Day Package: Conference & 2 Workshops (please specify below) <input type="checkbox"/> LMM-SABR <input type="checkbox"/> Commodities <input type="checkbox"/> Counterparty Credit Risk <input type="checkbox"/> Interest Rates <input type="checkbox"/> Volatility & Correlation	17- 21 May 2010	£4,197 (+VAT@19.6%) = £5,019.61	£600	£4,397 (+VAT@19.6%) = £5,258.81	£400	£4,497 (+VAT@19.6%) = £5,378.41	£300
<input type="checkbox"/> 4 Day Package: Main Conference & Algorithmic Trading Summit	17-20 May 2010	£3,598 (+VAT@19.6%) = £4,303.21	£500	£3,798 (+VAT@19.6%) = £4,452.41	£300	£3,898 (+VAT@19.6%) = £4,662.01	£200
<input type="checkbox"/> 4 Day Package: Conference & 1 Workshop (please specify below) <input type="checkbox"/> LMM-SABR <input type="checkbox"/> Commodities <input type="checkbox"/> Counterparty Credit Risk <input type="checkbox"/> Interest Rates <input type="checkbox"/> Volatility & Correlation	17-20 May 2010 or 18-21 May 2010	£3,398 (+VAT@19.6%) = £4,064.01	£400	£3,598 (+VAT@19.6%) = £4,303.21	£200	£3,698 (+VAT@19.6%) = £4,422.81	£100
<input type="checkbox"/> 3 Day Package – Main Conference only	18-20 May 2010	£2,499 (+VAT@19.6%) = £2,988.80	£300	£2,699 (+VAT@19.6%) = £3,228	£100	£2,799 (+VAT@19.6%) = £3,347.60	
<input type="checkbox"/> 1 Day Package – Algorithmic Trading Summit only	17 May 2010	£1,299 (+VAT@19.6%) = £1,553.60		1,299 (+VAT@19.6%) = £1,553.60		1,299 (+VAT@19.6%) = £1,553.60	
<input type="checkbox"/> 1 Day Package: Workshop only <input type="checkbox"/> LMM-SABR <input type="checkbox"/> Commodities <input type="checkbox"/> Counterparty Credit Risk <input type="checkbox"/> Interest Rates <input type="checkbox"/> Volatility & Correlation	17 May 2010 or 21 May 2010	£999 (+VAT@19.6%) = £1,194.80		£999 (+VAT@19.6%) = £1,194.80		£999 (+VAT@19.6%) = £1,194.80	

Savings include Multiple Booking & Early Booking Discounts. All discounts can only be applied at the time of registration and discounts cannot be combined. All discounts are subject to approval. Please note the conference fee does not include travel or hotel accommodation costs. **£200 discount for 3rd and subsequent delegates.**

PAYMENT DETAILS

Please use this form as our request for payment. Fax and phone bookings should be made with a credit card number, or followed up by a posted registration form. Places are only guaranteed by full payment, which must be received before the conference.

I will pay by:

- Cheque/bankers draft made payable to ICBI for £.....
 Invoice to be sent to my company
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Please debit my Mastercard Visa Eurocard American Express

Card Number _____

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CVV Number _____

3 digit security code on the reverse of card. 4 digits for AMEX card

CANCELLATION POLICY

CANCELLATION POLICY: Should you be unable to attend, a substitute delegate is always welcome at no extra charge. Alternatively, we will make a prompt refund less a service charge of 10% of the fee for cancellations received in writing (letter or facsimile) no later than 17 April 2010. Where notice is given between this date and 1 May 2010, refunds will be 50% of the fee, thereafter we regret that no refunds can be made.

PERSONAL DATA

Personal data is gathered in accordance with the Data Protection Act 1998. Your details may be passed to other companies (in countries within or outside the EEA) who wish to communicate with you offers related to your business activities. If you do not wish to receive these, please tick the box



Additional Requirements. Please notify ICBI at least one month before the conference date if you have any additional requirements e.g. wheelchair access, large print etc.