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> I ed by Attilio Meucci KEPOS CAPITAL with guest

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The ICBI Global Derivatives 2nd Annual High Frequency Finance & Algorithmic Trading Summit Designing & Implementing Effective Trading Algorithms In 08.00 The New Market & Regulatory Environment 08 25 Monday 11 April 2011 Registration & Welcome Coffee 08.30 08.30 08.55 Chairman's Opening Remarks Exploring The Latest Approaches To Building Robust Volatility Models Of High Frequency Data Marco Avellaneda, Professor Of Mathematics, COURANT INSTITUTE OF MATHEMATICAL SCIENCES, NEW YORK UNIVERSITY & Partner, FINANCE CONCEPTS Marco Avellaneda has been inclived in teaching, developing and practicate in sentences. Marco Avellaneda, *Professor Of Mathematics, COURANT INSTITUTÉ OF MATHÉMATICAL SCIENCES, NEW YORK UNIVERSITY & Partner, FINANCE CONCEPTS.

Marco Avellandes has been involved in teaching, developing and practioning quantitative linance for the last 15 years. He worked at Banque Indocuez as consultant in FX deviatelys as a vice-president in foed-income research at Morgan Stanley, as tradegist at option marketimaking film Georghe/Strategis in extreme is held of Volatility Afteringe at the hedge fund Capital stategist at option marketimaking film Georghe/Strategis in extreme in season and the standard of the standard of the standard standard in the s 09.00 09.00 HIGH FREQUENCY FINANCE THINKTANK SESSION Where Next For High Frequency Finance?: New Asset Classes, New Markets, & New Methodologies 09 45 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 Managing Director and Head of Quantitative Strategies in the Electronic Ending Services group of Banc of America Securitie From 2000-2005, he was a tenured Associate Professor of Mathematics and Computer Science at the University of Toronto, cot of its Master of Mathematical Finance program. 09.40 Richard Olsen, Founder, OANDA Richard Olsen is an economic researcher in high frequency finance. He is co-founder of OANDA, a market mainformation source for currency, is chief executive of Olsen Ltd, an investment manager, and visiting professor for Computational Finance and Economic Agents at the University of Essex. Peter van Kleef, Partner, LAKEVIEW CAPITAL MARKET SERVICES
Plor to his role at Lakeview, Peter managed significant hedge fund type investment portfolics and quantitative trading
departments for among others Cooper Neff, Salomon Brothers, Hypol/ereinsbank and Credit Jonnais. He has over 15 years
of experience in the development and unning of sophisticitated automated trading operations. Audience Q&A & Round Up Morning Coffee MOVING BEYOND EQUITIES 11.00 11.00 How Can Algorithmic Trading Establish Itself Across Asset Classes Robert Almgren, Co-Founder, QUANTITATIVE BROKERS CONSTRUCTING NEW ALGORITHMS 11.40 Advanced Algorithmic Strategies: Order Book & News Based Strategy Design & Implementation Peter van Kleef, Partner, LAKEVIEW CAPITAL MARKET SERVICES 11.40 Graphical Insights Into Market Liquidity, Volatility & Effects Of Correlations All Hirsa, Head Of Analytical Tading Strategy, NATIXIS CASPIAN CAPITAL MANAGEMENT
All Hirsa is Head of Analytical Tading Strategy at Nativis 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. 12.20 Audience Q&A & Round Up Networking Lunch - Plus Sign Up For The 'Meet The Speaker' Lunch Tables Integrating Boundaries: A Systematic Approach To Automated Cross Asset, Mutli Frequency Trading

Mark Holt, Head Of Implementation, Systematic Trading Group Mark Hoit, Head O'l Implementation, systematic Irading Group

BLUECREST CAPITAL MANAGEMENT LLP

Mark Holt is Head of Implementation for the systematic trading group at BlueCrest Capital Management LLP. He has spent
the last If years automating trading within and between major infancial institutions, Joined BlueCrest after 5 years at UBS

where he was responsible for the architecture and development of their European algorithmic trading platform. Before that he spent 7 years at Mogan Stanley and was involved in the development of their global electronic trading platform as well as the implementation
of a number of automated trading strategies for cash and derivatives markets. 14.20 **EXTENDED PROBLEM SOLVING WORKING GROUP** Overcoming The Practical Challenges Of State Of The Art Algorithmic Trading This is your chance to set the agendal. Put your specific algorithmic trading questions to this evpert panel and iscuss the key issues impacting your daily to work in the field Ali Hirsa, Head Of Analytical Trading Strategy, NATIXIS CASPIAN CAPITAL MANAGEMENT 15.00 14.30 Rajesh Nagella, Head Of Algorithmic Products EMEA, CITI 16.00 Afternoon Tea Leveraging Dark Pool Market Structure For Algorithmic Execution Rajesh Nagella, Head Of Algorithmic Products EMEA, CTT

Rajesh Nagella, Head of Algorithmic Products EMEA, CTT

Rajesh Nagella is Head of Algorithmic Products in EMEA and responsible for electronic trading products including Algorithmic Smart Order Routing and Internal Cossing throughout the region. Previously, Rajesh was the US Head of Algorithmic Products at Citigroup, NewYork Prior to Citi, Raj worked with Bank of America Securities and was Head of Electronic Trading Strategies. He began his career at Hull Trading, Chicago before joining Goldman Sachs where he was Co-Head of GSAT USA. Rajest graduated with an MBA from the University of Chicago, Booth School of Business in 1999. 15.10 16.30 16.00 The Changing Landscape Of OTC Markets And Challenges And Opportunities For Algorithmic Trading Ganga Darbha Ganga Darbha
Head Of Algorithmic Trading Strategies, Global Markets
NOMURA STRUCTURED FINANCE
Discussion of Algorithmic Trading Strategies, Global Markets
NOMURA STRUCTURED FINANCE
Discussion of Control Proceedings of Control Proceedings of Control Proceedings of Control Procedings of 17.00 16.30 PANEL DISCUSSION Flash Crashes, Market Manipulation And Roque Algorithms Assessing The Need For Speed Limits, Circuit Breakers And Other Proposed Regulatory Reforms Jim Gatheral, Professor Of Finance BARUCH COLLEGE, CUNY

Jim Gatheral is professor of mathematics at Baruch College, CUNY teaching mostly courses in the Masters of Financial
Engineering (MFE) program. Prior to joining the faculty of Baruch College, Jim was a Managing Director at Bark of America
Merrill Lynch, and also an adjunct professor at the Courant Institute of the Mathematical Sciences, New York, where for
many years he co-taught popular classes in the Masters Program of Mathematics in Finance. Prior to 2005 he headed the Equity
Cuantitative Arralytics groups at Merrill Lynch. Over his long career in the financial markets, he has been involved at one time or
other in all of the magn derivative product areas as boofcruner, risk manager and quantitative analyst. 17.10 Valérie Ledure, Policy Officer, Directorate-General For The Internal Market & Services, EUROPEAN COMMISSION 17.30 Valèrie Ledure works for the European Commission's Directorate-General for the Internal Market and Services as a policy officer in the field of securities markets. She acquired a solid experience and knowledge of the financial sector and is while working at ING Bank in Corporate Finance and Securitisation businesses from 2000 to 2007. Before that she or PricewaterhouseCoopers as a financial auditor specialised in the audit of financial services companies. 17.50 David Eliezer, Former Vice President, KNIGHT EQUITY MARKETS
Until May 2010, David was Vice President of the Execution Group in Knight Equity Markets. Before this he worked as a Vice
President at Goldman Sachs performing algorithmic trading of treasury bonds. David has previously worked at Bloomberg,
Integrated Finance Limited and as Director of Quantitative Research at Numerix. He started his career at Morgan Stanley
after completing a PRD in Physics from the University of California, Santa Barbara. 18.30 18.40

Richard Olsen, Founder, OANDA

18.15

18.20

Audience Q&A & Final Industry Round Up

End Of Summit Day

Main Conference Day One Tuesday 12 April 2011 Registration & Coffee Chairman's Opening Address **GUEST ECONOMIC ADDRESS** Recession, Recovery, Monetary Policy & Austerity Programmes: Determining What The Future Holds For Global Financial Markets Roger Bootle, Managing Director, CAPITAL ECONOMICS TALKING REGULATION Assessing The Progress Towards A More Simplified, Transparent & Standardised Derivatives Market Framework & The Likely Implications For Financial Services Firms Riccardo Rebonato, Head Of Front-Office Risk Management & Head Of Quantitative Analytics, GBM, RBS Stacy Coleman, Vice President, Financial Infrastructure Department, Bank Supervision Group FERENT RESERVE RANK OF NEW YORK FEDERAL RESERVE BANK OF NEW YORK Patrick Pearson, Head Of Financial Markets Infrastructure EUROPEAN COMMISSION THE 360 DEGREE INDUSTRY OVERVIEW Is It Time For Us To Go Back To Basics? Examining The Nature Of The Derivatives Market: What Impact Has The Credit Crisis Had? How Is The Derivatives Market Changing? The Credit Crisis Had' HOW is the Derivatives Market Changing. What Other Changes Need To Be Made? Michael Hintze, CEO & Senior Investment Officer, CQS Lorenzo Bergomi, Head Of Quantitative Research, Global Markets SOCIETE GENERALE Bruno Dupire, Head Of Quantitative Research, BLOOMBERG Morning Coffee & Networking Break Stream A The Latest Practical Techniques In Funding, Discounting, Liquidity & CVA Chairman: Alexander Sokol NUMERIX & COMPATIBL Stream D The Latest Developments In Derivatives Regulation & Capital Requirements Stream C New Innovations In Risk Management Stream B Enhanced Volatility Modelling & Trading EXAMINING CENTRAL MODEL RISK Switching Financial Institutions To Marking The Variational COUNTERPARTIES How To Assess Understanding The Implications Of The Proposed Regulatory Most-Likely-Path & Its Applications To Market Under The Measure & Manage Model CSA Regime Risk: Pricing, Margins & Risk Management Initiatives On Central Clearing For Financial Services Firms Jim Gatheral BARUCH COLLEGE CUNY Marco Bianchetti BANCA INTESA Stacy Coleman FEDERAL RESERVE Massimo Morini BANCA IMI BANK OF NEW YORK STOCHASTIC VOLATILITY Exploring A New Model Of Stochastic Volatility With Jumps The Three Cs Of OTC FUNDING MASTERCLASS Bespoke Model Validation Derivatives: Collateral. Session1 Alberto Flices Clearing & Counterparty Risk Rama Cont COLUMBIA UNIVERSITY A New Approach To Successfully Incorporating The Cost Of Funding Martijn Pristorius IMPERIAL COLLEGE LONDON SANTANDER COLUMBIA UNIVERSITY THINKTANK SESSION Central Clearing Under The Microscope: What Does It Mean For Envlatives Modelling, Pricing & Business Strategies? Jon Gregory SOLUM FINANCIAL PARTNERS Marco Avellaneda COURANT INSTITUTE Rama Cont COLUMBIA UNIVERSITY Into Pricing Ziggy Jonsson ARAM GLOBAL STOCHASTIC & Towards A Theory Of Calibration VOLATILITY Overcoming The Obstacles To Accurately Pricing Calibration Of Stochastic & Peter Carr MORGAN STANLEY Local Stochastic Volatility Uncollateralised Trades Models UNICREDIT Q&A & Industry Round Up Lunch & Networking Break - Plus Sign Up for "Meet The Speaker" Lunch Tables THE LAW OF 2 PRICES Separately Modelling The Bid & Ask Price For More Dynamic Calculation Of Capital Requirements For Trades Dilip Madan TALKING DVA An Efficient Implementation CONTINGENT How Can Firms Take Their Of Stochastic Volatility CAPITAL Own Risk Of Default Into By The Method Of Design & Analysis Of Contingent Capital Paul Glasserman Account When Pricing Derivatives? Conditional Integration Christoph Burgard William McGhee COLUMBIA UNIVERSITY BARCLAYS CAPITAL RBS UNIVERSITY OF MARYLAND Is Standardisation The Enemy Of Innovation?: Assessing The Impact Of Moves Towards Standardization On Financial Products, Incentives & Future Innovation A Unified Framework Implied Liquidity & Farkas Lemma & Spread Options The Hedging Of Liquidity Risk Wim Schoutens CATHOLIC UNIVERSITY For Counterparty & Liquidity Charges Vladimir Piterba VIAGIMIT PITERBARG BARCLAYS CAPITAL Andrea Prampolini BANCA IMI OF LEUVEN Q&A & Industry Round Up Real World vs. Risk Neutrality: Application To Risk, CVA & Capital BASEL III MASTERCLASS Session 1 Finite Difference Based CVA MASTERCLASS Calibration And Simulation Session 1 New Research In CVA Assessing The Impact Of The Of Stochastic Local Volatility Vladimir Chorniy BNP PARIBAS Wrong-Way Model Models Jesper Andreasen DANSKE BANK Comprehensive Risk Measur (CRM) On The Correlation Dmitry Pugachevsky JP MORGAN Lee Moran BNP PARIBAS iness Under Basel III David Shelton Session 2 Session 2 Hedging CVA Exploring A New Practical Approach To Robust Hedging Of CVA Jon Gregory SOLUM FINANCIAL BANK OF AMERICA MERILL LYNCH Session 2 Incremental Risk Charge And Comprehensive Risk Market Update: Attractive Trading Opportunities & Current Investor Focus Areas In Equity Volatility Pete Clarke **Emergent Optimal Hedges** Measure: Designing A New Market Risk Management Framework PARTNERS Session 3 Vivien Brunel PANEL: Modelling & anaging CVA In Practice Giovanni Cesari SOCIÉTÉ GÉNÉRALE VOLATILITY TRADING PANEL Examining The Latest Strategies For Successful Volatility Trading Euan Sinclair Giovanni Cesari UBS Yann Coatanlem CITI INSTITUTIONAL CLIENT GROUP Josh Danziger VALERE CAPITAL The Theory Of Granularity Tail-Risks & Dynamic Adjustments Revisited: How To Value And Risk Manage A Book Of Credit-Sensitive Instruments Without Simulations Portfolio Allocation

BLUEFIN TRADING Peter van Kleef

LAKEVIEW ARBITRAGE

MORGAN STANLEY

Table 3

COURANT

Q&A & Industry Round Up

Table 5

Bruno Dupire BLOOMBERG

Champagne Roundtable Discussion Groups

Table 4 Dilip Madan UNIVERSITY OF

MARYLAND

Jean-David Fermanian

Q&A & Industry Round Up

Table 6 Paul Glassern COLUMBIA

UNIVERSITY

Joe Holderness JP MORGAN

Q&A & Industry Round Up

Table 2

Jim Gathers BARUCH COLLEGE

Table 1 Peter Carr MORGAN

STANLEY

		ain Conferen Wednesday 13					in Conf
08.30		Mornin	g Coffee		08.20		C
	Stream A The Latest Counterparty Risk, Collateral & Correlation Modelling Techniques	Stream B Cutting-Edge Innovations In Interest Rate Modelling	Stream C New Advances In Commodities Trading & Risk Management	Stream D New Techniques For Pricing & Hedging Hybrid Products	08.45	Paul Wilmot	GUES The Role Relevar t, Author, Rese
09.00	COLLATERAL MODELLING Understanding How Collateral Is Modelled, How It Interacts With The Trade And How It Is Included In Counterparty Risk	MULTIPLE YIELD CURVES Multiple Curve Construction For Interest Rate Derivatives: Overcoming The Challenges Of Forecasting & Discounting Off Different Curves	Generic Commodities Exotics: Is A Model For Crude Any Use For Coffee & Copper?	New Techniques For Modelling Hybrid Capital Securities Andrei Serjantov	09.15	John Coa	GUEST The Neurosc ates, Senior Re UNIVE
	Faisal Yousaf HSBC Trading CSAs	Igor Smirnov BNP PARIBAS On the Term Structure of Interest Rates With Basis	Alan Stacey NOMURA Option Pricing & Hedging By Risk Minimization With	BNP PARIBAS Fast Calibration & Pricing Of Convertibles Using A	09.45	Get Your Question Conference by Pos	luantitative P s Answered B
09.40	Hans-Peter Schöch NOMURA	Spreads, Collateral & Multiple Currencies Akihiko Takahashi UNIVERSITY OF TOKYO	Multiple Factors & Transaction Costs Igor Halperin JP MORGAN	Jump Diffusion Model With Stochastic Credit David Frank BLOOMBERG	09.50	Innovations In Credit Derivative Ziggy Jonssor	Of Li
10.20	A Unified Approach To Correlation CVA & Collateral Dynamics	Parsimonious HJM Models For Multiple Yield-Curve Dynamics	JUMPS Developing Efficient Jump Models To Identify And Understand Volatility In The Commodities Market	VARIANCE DERIVATIVES Assessing The Pricing And Convergence Of Discretely Monitored Variance Derivatives And Volatility-		ARAM GLOBA Massimo Morii BANCA IMI	
	Youssef Elouerkhaoui CITI	Andrea Pallavacini BANCA LEONARDO	Michael Dempster UNIVERSITY OF	Equity Hybrid Derivatives John Crosby	10.20		Morning
	CIII		CAMBRIDGE	UNIVERSITY OF GLASGOW		Stream A New Techniques For	Stream New Practical
11.00	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up		Pricing & Hedging Equity Derivatives	For Impro Computational
11.05 11.40	EXTENDED SESSION Correlations In	Libor Market Models With Stochastic Basis	New Classes Of Markovian Factor Models With Stochastic Volatility And Jumps For Commodity Futures	VARIANCE SWAPS Quadratic Variance Swap Term Structure Models: How Can We Efficiently Capture Extreme Movements & Spikes Of Stochastic Volatility In Multi-Factor	10.50	Stochastic Dividend Modelling For Derivatives Pricing Hans Buehler JP MORGAN	Auto-Differer In Practi Jürgen Ha EFG FINAN PRODUC
	Asynchronous Markets Lorenzo Bergomi SOCIÉTÉ GÉNÉRALE	BLOOMBERG	Alex Levin RBC	Diffúsion Models Damir Filipovic EPFL		TRADING EXOTIC EQUITY DERIVATIVES How Has The Market For Exotic Equity Derivatives	EFFICIENT MON Making The Cale Risk Through M
12.20	,	Expansion Techniques In Interest Rate Modeling Alexander Antonov NUMERIX	The Impact Of Hedgers And Speculators On Long-Term Oil Prices Ilia Bouchouev KOCH SUPPLY & TRADING	SKEWS The Cross-Asset Skew Modelling Challenge Youssef Randjoui CITIGROUP	11.30	Changed And Where Are The New Opportunities? Arie Boleslawski SOCIÉTÉ GÉNÉRALE Mike de Vegvar	Methods More E Using Adjoint A Differentia Luca Capi CREDIT SL
13.00	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up		UBS Optimal No-Arbitrage	
13.10	Lunch & A DYNAMIC MODEL FOR CORRELATION Extending Dupire-Local Volatility To Incorporate Non Trivial Behaviour Of	Networking Break - Plus Sign L Looking (Again) At Caplets Versus Swaptions Using The LMM-SABR Model	In for "Meet The Speaker" Lur Strategies For Overcoming Challenges In Energy Risk Management	The Price Of An Equity Variance Swap In A Model With Stochastic Interest Rafes	12.10	Bounds Under Calibration: A Stochastic Control Approach Pierre Henry- Labordère SOCIÉTÉ GÉNÉRALE	Advances Ir Computing For Pricing Mo Thomas W SCICOM
	Correlation Alex Langnau ALLIANZ INVESTMENT MANAGEMENT	Riccardo Rebonato RBS	Ehud I Ronn MORGAN STANLEY	Per Horfelt BARCLAYS CAPITAL	12.50	Q&A & Industry Round Up Stream E	Q&A & Industry
15.10	A Local Correlation Model: Motivation & Practical Implementation	No Arbitrage SABR Jesper Andreasen DANSKE BANK	SHIPPING PRICES The Importance Of Shipping In Commodity Markets	Mixed Volatility Dynamics: Pricing & Calibration Of Long Dated Multi-Asset Products	14.00	Exploring The Latest Techniques In Pricing Hedging & Trading Credit Derivatives Liquidity Modelling For Credit	DATA MIN Effective & Accu Mining & Density
15.50	Adil Reghai NATIXIS Q&A & Industry Round Up	Brian Huge DANSKE BANK Q&A & Industry Round Up	Helyette Geman UNIVERSITY OF LONDON & ESCP EUROPE Q&A & Industry Round Up	Han Lee RBS		Default Swaps & Bonds Damiano Brigo KING'S COLLEGE LONDON	Esteban To COURANT INS
16.00	,		oon Tea	,			=======================================
16.30	Dispersion, Volatility & The Dynamics Of Correlation	Practical Application Of SABR Volatility Curves	AGRICULTURAL COMMODITIES A New Approach For Efficient Modelling Of	VARIABLE ANNUITIES MASTERCLASS Session 1 Variable Annuities:	14.40	Interactions As Sources Of Correlations And Risk In Financial Networks Reimer Kühn	Risk Distribution Selective Re- Christian
	Lisa Borland EVNINE & ASSOCIATES	Dong Qu UNICREDIT	Forward Curves For Agriculturals	Insurance Pricing vs. Market-Consistent Pricing Yves Lehmann UBS		Forecasting & Trading	DZ BAN Counterparty Cre
17.10	A Comparative Analysis Of Correlation Approaches In Finance Gunter Meissner UNIVERSITY OF HAWAII	Measuring Risk Premia In Rate Curves Julien Turc SOCIÉTÉ GÉNÉRALE	Measuring Correlation Risk for Energy Derivatives Roza Galeeva MORGAN STANLEY	Camilla Du Boulay UBS Session 2 Pricing Inflation-Linked Annuities	15.20	Future Correlations Arthur Berd CAPITAL FUND MANAGEMENT Artem Voronov NYU	Portfolios Of Ne Claudio Alb KINGS COLLEGI
	UNIVERSITY OF HAWAII	SOCIETE GENERALE	MORGAN STANLET	Alexander van Haastrecht DELTA LLOYD	16.00	Q&A & Industry Round Up	Q&A & Industry
17.50	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up	Q&A & Industry Round Up	16.10		Efficient No.
Alex BAI AMI	ble 1 Lipton NK OF ERICA RRILL Table 2 Ilia Bouchoue KOCH SUPPLY & TRADING	Table 3 Lorenzo Bergomi SOCIÉTÉ	Table 4 Peter Jaeckel OTC DERIVATIVES Table 4 Peter Au BARCL CAPIT	sting Massimo Morini AYS BANCA IMI	16.30	CDOs Recent Developments In Pricing CDOs With Stochastic Recovery Rates Martin Krekel UNICREDIT	Efficient Numer Methods To Solve And Pricing Proble Stochastic Volati Artur Se BANK OF AN MERRILL L'
	NCH TRADING	Derivatives & Trading			4740	PRICING CDO OPTIONS Exploring A New Methodology For Pricing CDO Options: Can Accuracy	Examining The Techniques For Accelerat

CHAMPAGNE ROUNDTABLE **DISCUSSION GROUPS**

The Champagne Roundtable Discussion Groups provide you with the ideal place to meet face-to-face with some of our key speakers, in small groups of about 15 people. Choose between the tables and discuss specific issues and ideas that have arisen over the course of the day in a highly personal and interactive environment. Pre-registration required. Please check the event website for details.

ference Day Three sday 14 April 2011 Chairman's Welcome ST QUANT ADDRE Of Mathematics In Finance: nce, Reliance, Robustness searcher, Educator & Founder Of wilmott.com **ACADEMIC ADDRESS** cience Of Risk & Reaction Times Research Fellow In Neuroscience & Finance ERSITY OF CAMBRIDGE Minute Transfer Break lem Solving Working Groups ne Experts! Make The Most Of Your Time At The Questions To The Expert Panel & The Gathering Innovations In Equity Derivatives Innovations In Fixed Nicolas Grandchamp Income Derivatives Piotr Karasinski des Raux EBRD Fabio Mercurio BLOOMBERG **HSBC** ean-Jacques Raberyin **BNP PARIBAS** ng Coffee & Networking Break Stream C The Latest Advances In FX & Interest Rate Derivatives Pricing, Hedging &Trading n B Il Methods Stream D **Enhanced Volatility** oving I Efficiency Modelling & Trading What Drives Volatilit entiation Of Rates? Empirica ctice Hakala ANCIAL EXTENDED SESSION Explorations In Developed & Emerging Markets Piotr Karasinski Exploiting Discrepancies ICTS Between Historical & Implied Values NTE CARLO alculation Of Monte Carlo Bruno Dupire Pricina & Modellina CMS BLOOMBERG Spread Options Efficient By Algorithmic tiation Joerg Kienitz DEUTSCHE POSTBANK UISSE Three Sources & Three In GPU Component Parts Of The Universal Volatility Model Derivative **l**odels Alex Lipton Weber Peter Austing BANK OF AMERICA BARCLAYS CAPITAL MERRILL LYNCH y Round Up Q&A & Industry Round Up Q&A & Industry Round Up Lunch & Networking Break Non-Parametric Variance Swaps On curate Data Multivariate Stochastic/Local Volatility tv Estimation Modelling Time-Change Processes Grigore Tataru BLOOMBERG NSTITUTE Andrey Itkin rate Portfolio CURRENCY VOLATILITY BASKET OPTIONS tions Using -Valuation Successfully Implementing Stochastic Intrinsic Currency Asymptotics For Basket Options Volatility Models Peter Laurence Paul Doust UNIVERSITA DI ROMA NK SYSTEMIC RISK DOUBLE NO TOUCH redit Risk For Understanding The Effect Of Derivatives Trading On Market Stability Matteo Marsili OPTIONS letting Sets Double No-Touch: Market Consistent Pricing lbanese With LSV Models THE ABDUS SALAM GE LONDON lain Clark INTERNATIONAL CENTRE FOR THEORETICAL STANDARD BANK PHYSICS Q&A & Industry Round Up y Round Up Q&A & Industry Round Up Stream F erical PDE New Innovations In Portfolio Optimisation Cash-Settled Swaptions: ve Calibratio olems In Local atility Models A Multi- Model Analysis Portfolio Optimisation With Options Marc Henrard epp MERICA DEXIA Mark Broadie COLUMBIA LYNCH The Latest A Class Of Lévy Interest Strategies For Managing or Hardware Rate Models Based On Diversification The Zeta Process CDO Options: Can Accuracy Best Be Served By Modelling Lane Hughston Attilio Meucci A Range Of Prices? Yadong Li BARCLAYS CAPITAL Peter van Kleef IMPERIAL COLLEGE LAKEVIEW ARBITRAGE Q&A & Industry Round Up 17.50 18.00



Main Conference Day 4: Friday 15 April 2011 Choose From 6 Full Day Technical MasterClass Sessions

End Of Day 3

The ICBI Global Derivatives 2nd Annual

High Frequency Finance & Algorithmic Trading Summit

Designing & Implementing Effective Trading Algorithms In The New Market & Regulatory Environment Monday 11 April 2011

Registration & Welcome Coffee

Chairman's Opening Remarks

Exploring The Latest Approaches To Building Robust Volatility Models Of High Frequency Data



Marco Avellaneda Professor Of Mathematics COURANT INSTITUTE OF MATHEMATICAL SCIENCES, NEW YORK UNIVERSITY & Partner, FINANCE CONCEPTS

FINANCE CONCEPTS

Marco Avellaneda has been involved in teaching, developing and practicing quantitative finance for the last 15 years. He worked at Banque Indosuze as consultant in FX derivatives, as a vice-president in fixed-income research at Morgan Stanley, as quant strategist at option marketmaking firm Gargolye Strategic Investments, as Head of Volatility Arbitrage at the hedge fund Capital Fund Management where he created the Nimbus Fund, and as Portfolio Manager for quant trading at the Galleon Group. His interests are unabashedly focused on quantitative alpha generation. He is known in academic finance as the inventor of the Uncertain Volatility model, for developing model-calibration algorithms using Weighted Morator CarlofMay stronger for the Property for the theory behind riference in the carloff of the property of the theory behind riference in the carloff of the property of the theory behind riference in the carloff of the property of the theory behind riference in the carloff of the property for the theory behind riference in the property of the property of the theory behind riference in the property of the property of the theory behind riference in the property of the theory behind riference in the property of Uncertain Volatility model, for developing model-calibration algorithms using Weighted Monte Carlo/Max Entropy, for the theory behind dispersion trading, and for his more recent works on statistical arbitrage in the US equities market, high-frequency trading and price forecasting. A faculty member at the Courant Institute, he teaches classes in Stochastic Calculus, Risk-management and Portfolio Theory (mon-ortbodox, ves?), PDEs in finance and Quantitative Investment Strategies. He is in the editorial boards of Communications on Pure and Applied Mathematics (the thinks pure maths rock), the International Journal for Theoretical and Applied Finance and Totally, the International Journal for International and Applied Finance, among others and authored the textbook
"Quantitative Modeling of Derivative Securities". He was awarded the prize
2010 Quant of the Year by RISK Magazine.

Where Next For High Frequency Finance?: New Asset Classes, New Markets, & New Methodologies



QUANTITATIVE BROKERS

Robert Almgren

QUANTITATIVE BROKENS

Robert Almgrein is also a Fellow in the Mathematics in Finance
Program at New York University, Unit! 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.



Richard Olsen

OANDA

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 visting professor at the Centre for Computational Finance and Economic Agents at the University of Essex.



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.

Audience Q&A & Round Up

10.30

Morning Coffee

How Can Algorithmic Trading Establish Itself Across Asset Classes



Robert Almgren QUANTITATIVE BROKERS

Peter van Kleef

Advanced Algorithmic Strategies: Order Book & News Based Strategy Design & Implementation



LAKEVIEW CAPITAL MARKET SERVICES

Graphical Insights Into Market Liquidity, Volatility & Effects Of Correlations



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

13 00

Audience Q&A & Round Up

Networking Lunch -Plus Sign Up For The 'Meet The Speaker' Lunch Tables

14.20

Integrating Boundaries: A Systematic Approach To Automated Cross Asset, Mutli Frequency Trading



Mark Holt **BLUECREST CAPITAL MANAGEMENT LLP**

BLUECREST CAPITAL MANAGEMENT LLP
Mark Holt is Head of Implementation for the systematic
trading group at BlueCrest Capital Management LLP He has
spent the last 15 years automating trading within and between
major financial institutions. Joined BlueCrest after 5 years at UBS where he
was responsible for the architecture and development of their European
algorithmic trading platform. Before that he spent 7 years at Morgan Stanley
and was involved in the development of their global electronic trading
platform as well as the implementation of a number of automated trading
strategies for cash and feliarities markets. strategies for cash and derivatives markets

Overcoming The Practical Challenges Of State Of The Art Algorithmic Trading

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



Ali Hirsa Head Of Analytical Trading Strategy NATIXIS CASPIAN CAPITAL MANAGEMENT



Raiesh Nagella ead Of Algorithmic Products EMEA CITI

16.00 Afternoon Tea

Leveraging Dark Pool Market Structure For Algorithmic Execution



Rajesh Nagella Head Of Algorithmic Products EMEA

Rajesh Nagella is Head of Algorithmic Products in EMEA and responsible for electronic trading products including

responsible for electronic trading products including algorithms, Smart Order Routing and Internal Crossing throughout the region. Previously, Rajesh was the US Head of Algorithmic Products at Citigroup, New York. Prior to Citi, Raj worked with Bank of Armerica Securities and was Head of Electronic Trading Strategies. He began his career at Hull Trading, Chicago before joining Goldman Sachs where he was Co-Head of GSAT USA. Rajesh graduated with an MBA from the University of Chicago, Booth School of Business in 1999.

The Changing Landscape Of OTC Markets And Challenges And Opportunities For Algorithmic



Ganga Darbha Head Of Algorithmic Trading Strategies, NOMURA STRUCTURED FINANCE

Dr. Gangadhar Darbha has a PhD (Economics, IGIDR, India) and Post-Doc (Finance, Wharton School, University of Pennsylvania). He is currently Head of Algorithmic Trading Strategies, Global Markets, Nomura Structured Finance. Before this he worked as the Head of Algorithmic Trading in Delta Business in Rates, and Credit at Royal Bank of Scotland, London. He has previously worked at the National Stock Exchange in Ind and in Algorithmic Trading in Morgan Stanley and ABN AMRO in London.

Flash Crashes, Market Manipulation And Roque Algorithms Assessing The Need For Speed Limits, Circuit Breakers And Other Proposed Regulatory Reforms



Professor Of Finance BARUCH COLLEGE, CUNY

Jim Gatheral is professor of mathematics at Baruch College, CUNY teaching mostly courses in the Masters of Financial Engineering (MFE) program. Prior to joining the faculty of Baruch College, Jim was a

program. Prior to joining the faculty of Baruch College, Jim was a Managing Director at Bank of America Memil Lynch, and also an adjunct professor at the Courant Institute of the Mathematical Sciences, New York, where for many years he costaught popular classes in the Masters Program of Mathematics in Finance. Prior to 2005 he headed the Equity Quantitative Analytics groups at Memil Lynch, Over his long career in the financial markets. he has been involved at one time or other in all of the major derivative product areas as bookrunner, risk manager and quantitative analyst.



Policy Officer, Directorate-General For The Internal Market & Services

EUROPEAN COMMISSION
Valérie Ledure works for the European Commission's
Directorate-General for the Internal Market and Services as a

policy officer in the field of securities markets. She acquired a solid experience and knowledge of the financial sector and institutions while working at ING Bank in Corporate Finance and Securitisation businesses from 2000 to 2007. Before that she worked for PricewaterhouseCoopers as a financial auditor specialised in the audit of financial services companies.

Former Vice Presiden: KNIGHT FOUITY MARKETS

Until May 2010, David was Vice President of the Execution Group in Knight Equity Markets. Before this he worked as a Vice President at Goldman Sachs performing algorithms treating of treasury bonds. David has previously worked at Bloomberg, Integrated Finance Limited and as Director of Quantitative Research at Numeriv. He started his career at Morgan Stanley after completing a PhD in Physics from the University of California, Santa



Audience Q&A & Final Industry Round Up

End Of Summit Day



Tuesday 12 April 2011

s Sessions

- 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:
- and CDO examples

 Spread options and steepeners
 Pricing Mountain Range options correlation, copula and more
- Correlation across assets and time
 Coupling random variables or processes?
 Coupling levels or returns?
 - components Correlation Trading
- What can be locked and not locked Correlation swaps and options
 Correlation management
 Dispersion and diversification trades and arbitrage **Modeling Correlation**
- Estimating correlation; asynchronous and incomplete data Study of empirical facts
 nD Local Volatility model
- Dynamic Loss Models: Hint At GPL Model For Simultaneous Tranche Calibration Across Attachments &
- Counterparty Risk CVA:

Unilateral and Bilateral CVA Default modelling Exposures
Impact of volatilities and correlations Subtleties in wrong way risk profiles Netting and collateral in CVA

Counterparty Risk CVA On Rates, Commodities & Credit (1h) Interest Rate derivatives: CVA on

· Stochastic covariance matrix

modeling
• How to model stochastic

correlation

• How to correlate jumps

Pricing With Correlation

Break-even points in n dimensions
Correlation skew: basket options

Hedgeability with options on the

interest rate swaps with netting Commodities: CVA for oil swaps Credit Derivatives: CVA on credit

Wrong way risk in all the above cases Precise valuation vs. Basel II deduced

- . Calibrating the volatility function
- Empirical evidence
- Calibrating and hedging under conditions of market turmoil

• When The Payoff Is Wrong

The dramatic consequences of payoff misunderstanding Examples on credit index options and bilateral counterparty risk

• Using Different Models For Model Validation Measure the range of

reasonable prices to quantify model risk Construct parametric families of models Practical example on gap risk with structural vs reduced-form

models and on local vs stochastic volatility models

Stress-Testing Design & Pitfalls To Avoid Market

information to design stress tests, with a practical example on correlation skew Historical information to design stress-tests in illiquid markets, with a practical example from mapping for credit bespoke portfolios Pitfalls in stress-testing: practical examples on copulas for liquidity risk, dynamic VaR, wrong-way

- The Crucial Role of the Forward curve and its **Dvnamics**
- The Roll Yield as a significant component of the return
- Gold as an "event hedge"?
- Copper and Aluminium ETFs: the new kids on the block
- M&As in Mining and Energy
- Back to Physical: The Benefits and the **Global Risk**

Portfolio Construction The Grinold-Kahn approach

The Black-Litterman approach
Beyond Black-Litterman:
entropy-based Fully Flexible Views

Advanced Portfolio Optimization - I

Diversification measures: a review The mean/variance/diversification

Advanced Portfolio Optimization - II (with Mark Broadie

(including MB below) Scenario approach to portfolio optimization The mean/variance/skewness frontier Incorporating derivatives in portfolio

Portfolio Optimization InThe Presence Of Estimation Risk (not including MB below)

Including Mis Below)

Quantifying model risk: intuition, theory, and practice (with Mark Broadie)

The two-step mean/risk framework (mean/wariance, mean/CVaR)

Advanced optimization techniques: (second order) cone programming
The robust mean/variance framework

• Dynamic Portfolio Management Convex/concave strategies

Delta-replication CPPI, TIPP, drawdown control 08.00

Registration & Coffee

08.25

Chairman's Opening Address

Guest Economic Address

THE GLOBAL ECONOMIC OUTLOOK

Recession, Recovery, Monetary Policy & Austerity Programmes: Determining What The Future Holds For Global Financial Markets



Roger Bootle Managing Director CAPITAL FCONOMICS

CAPITAL ECONUMICS
One of the City of Loxdon's bast-known economists. Roger Bootle runs the consultancy. Capital Economics, which specialises in macroeconomics and the economists of the property market. He is also Economic Adviser to Deloitte, a Specialist Adviser to the House of Commons Teasury Committee and an Honnary Fellow of the Institute of Actuaries. He was formerly Group Chief Economist of HSBC and, under the previous Conservative government, he was appointed one of the Chancellor's panel of Independent Economic Advisers, the so-called "Wise Men". Roger Bootle studied at Oxford University and then became a Lecturer in Economics at St Annes Collego, Mordon (Most of his subsequent career has been spent in the City of London. He has written many articles and several books on monetary economics. Roger's lites took, The florable with Markets, analyses the deep causes of the recent financial crisis and discusses the threats to capitalem arising from been widely acclaimed. This followed the success of The Death of Inflation, published in 1995, which became a best-seller and was subsequently translated into rine languages. Initially dismissed as extreme, The Death of Inflation is now widely recognised as prophetic. Roger is also joint author of the book. Theory of Money, and author of Index-Linked Gilts. Roger is a designed and the success of the Death of Inflation is now widely recognised as prophetic. Roger is also joint author of the book. Theory of Money, and author of Index-Linked Gilts. Roger is a designed and the success of the Death of Inflation is now widely recognised as

Panel Discussion TALKING REGULATION

Assessing The Progress Towards A More Simplified, Transparent & Standardised

Derivatives Market Framework & The Likely **Implications For Financial Services Firms**



Stacy Coleman, Vice President, Financial Infrastructure Department, Bank Supervision
FEDERAL RESERVE BANK OF NEW YORK

FEDERAL RESERVE BANK OF NEW YORK

Stay Coleman is a Vice Pesident in the Bank Supervision Group at the
federal Reserve Bank of New York where she works on efforts to
improve the resiliency of the overther counter derivatives infrastructure.

Ms. Coleman has been in the Federal Reserve System since 1993. Between 1993 and
2007. Ms. Coleman worked at the Federal Reserve Board in Washington, D.C. and
focused on policy development in the areas of payments system risk and banking
supervision. From 2004 to 2007, she served as the Board's representative to the Accord
limplementation Group for Operational Risk under the Basel Committee on Banking
Supervision. From 2007 to May 2010, Ms. Coleman worked at the Federal Reserve Bank
and intradity credit extensions and for ensuring that risks were accurately identified and
addressed across the Richmond Feds supervised institutions. Ms. Coleman holds a
Bachetor of Arts degree in Economics and Business Administration from Kalamazoo
College in Kalamazoo, Michigan and A Master of Business Administration in Finance
from Johns Hopkins University in Baltmore, Maryland.



Patrick Pearson

Patrick Pearson
Head Of Financial Markets Infrastructure,
EUROPEAN COMMISSION
Patrick Pearson is Head of Financial Market Infrastructure in the
European Commission's Internal Market Directorate General. He is
settlement. He previously headed the Commission's Darking regulatory term and was
responsible for the Financial Services Action Plan. Before joining the European
Commission Patrick Pearson worked for the Dutch Finance Ministry.

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

Bio on pg. 4

Panel Discussion

THE 360 DEGREE INDUSTRY OVERVIEW

Is It Time For Us To Go Back To Basics? Examining The Nature Of The Derivatives Market: What Impact Has The Credit Crisis Had? How Is The Derivatives Market Changing? What Other Changes Need To Be Made?



Michael Hintze CEO & Senior Investment Officer

COS
Prior to establishing COS, 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 COS Convertible & Quantitative Strategies Fund. Before this 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 prings CSFB in 1986, Michael worked at Goldman Sactis for 12 years in a variety
of roles including, Managing Director and Head of UK Trading and Head of European
Emerging Markets Trading.



Lorenzo Bergomi Head Of Quantitative Research, Global Markets,

Head UT Unantitative Hesearch, Global Markets, SCOIETÉ CENFEALE.

Lorsono Bergorni has been with SG since 1997. Originally trained in letter theory group at CEA, Sacky, France, then spent two years in the physics department of MIT before joining SG. While his nitial focus was on equity derivatives, his current mandate is global.

Bruno Dupire Head Of Quantitative Research **BLOOMBERG**

Morning Coffee & Networking Break

The Latest Practical Techniques In Funding, Discounting, Liquidity & CVA

11.00

Switching Financial Institutions To Marking To Market Under The CSA Regime

- Where is the market?
- Updating pricing models
 Switching derivatives & bonds to CSA discounting
 P&L impact calculation
- Trading decisions IT decisions
- Risk Management decisions
- Accounting decisions Management decisions



Marco Bianchetti, Senior Quant & Risk Manager
BANCA INTESA SANPAOLO

BANKA IN LESA SANPAOLO
Marco Banchetri joined the Martet Risk Management, Pricing and Financial Modelling area of Banca Intess Senpaolo in 2008. His recent work focuses on model risk management, interest state modelling and office Financial Engineering area of Banca Caboto Honov Banca IMIJ, developing pricing models and applications for fixed income and inflation trading desks. He holds at MSc. in theoretical anulear physics and a Ph.D. in theoretical condensed matter physics from the University of Milan.

FUNDING MASTERCLASS

Incorporating The Cost Of Funding Into Pricing

- Exploring new developments in implied risk-free rates and implications for derivatives pricing When the world collapses: the likelihood of simultaneous
- counterparty default and a large jump in derivatives prices
- Bond/CDS basis when LIBOR is no longer risk-free: implications on higher order derivatives
 Synthetic funding through Collateral Support Agreements, correlation
- between general funding costs and credit derivatives
 The yield assumption in markets for ABS assets: comparing
 traditional methods with synthetic methods from a funding



Ziggy Jonsson, Partner ARAM GLOBAL

ARAM GLOBAL

Togy Jonsson is a partner of ARAM Global, Asset Recovery Advisors and Managers and is based in New York. In mid 2008 he was appointed heard treasury for Glittin bank in the last fatal months of the lockendic banking system and served as a serior advisor to the government created Islandshand it he New Bankin in the subsequent restructuring. Previously he headed up the Structured Credit Trading for Bank of America Securities in North America unning synthetic CDO and hybrid trading desis after spending the early part of his career managing Tessury and Derivatives Trading for Kaupthing Bank.

Discounting Revisited: Valuations Under Funding Costs, Counterparty Risk & Collateralization

- Motivation: funding costs, counterparty risk and own credit Valuation using liquidation values Valuation with funding costs

- Valuation with funding costs and counterparty risk

Christian Fries

Head Of Model Development, Group Risk Control

DZ BANK
Christan 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.christan-fries.defirmath. He is the author of "Mathematical Finance: Theory, Modeling, Implementation," Wiley, 2007.

13.00 Audience Q&A & Industry Round Up

13.10

Lunch & Networking Break

14.30

How Can Firms Take Their Own Risk Of Default Into Account When Pricing Derivatives?

- Combining bilateral counterparty risk and funding costs into a

- Combining bilateral counterparty risk and funding costs into a common modelling framework. How ones own credit impacts hedging strategies for derivatives Asset/liability modelling for new derivatives business Should old business impact new business? Relationships between derivatives desks, credit-counterparty desk and funding and the state of the s



and funding unit Christoph Burgard

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

EM and Credit-Counterparty Derivatives Modelling BARCLAVS CAPITAL

and Credit-Counterparty Derivatives and Global Head of Equity, EM and Credit-Counterparty 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.

A Unified Framework For Counterparty & **Liquidity Charges**

- Inconsistencies in the standard theory of DVA and liquidity
- Risky funding with DVA for the borrower Risky funding with CVA for the lender The accounting view: always pretending to be default free
- DVA and the liquidity benefit in a bilateral setting Liquidity value adjustment

 Andrea Prampolini



Counterparty Risk Trader BANCA IMI

HANCA IMI

Andrea Pampolini is counterparty risk trader in the Credit Treasury of Banca IMI, the investment bank of IntesaSanpado, with responsibility or the divelopment of CVM trading operations. He has a quantitative background and ten years of experience in trading derivatives on various underlyings, with a particular focus on credit and interest rates. His research interests include correlation mapping and the interactions between funding liquidity and counterparty risk.

15.50 Audience Q&A & Industry Round Up 16.00 Afternoon Tea

Main Conference Day 4

Friday 15 April 2011

Choose From 6 Full Day Technical MasterClass

Volatility & Correlation Modelling & Trading In Practice (9am - 4pm)



Led by
Bruno Dupire
Head of Quantitative
Research,
BLOOMBERG

Hossardn, Buno Duprie is head of Quantitative Research at Bloomberg L.P., which he joined in 2004. Prior to this assignment in NY, the has headed the Derivatives Research teams at Societie Geferale, Parkiss Capital Martest and Nikor Francial Products where he was a Managing Director. He is best known for having started and the start of the Martest and Nikor Francial Products where he was a Managing Director. He is best known for having started the start of the Martest About Schoels-Menton 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 Managament. He is the recipient of the 2006 "Cutting edge research" award of Wilmott magazine and was voted in 2006 the most contributing practitioner of the 5 previous years in the ICEI Global Derivatives industry survey. He is the recipient of the Risk Magazine "Lifetime Achievement" award for 2006.

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
- 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
- reaimes
- 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

Counterparty Valuation **Adjustment (CVA)** & Credit Models In A Crisis (9am - 4pm)



Led by **Damiano Brigo** Gilbart Professor Of Mathematical KING'S COLLEGE LONDON

RINGS COLLEGE LUNDON
Damiano Brigo is Gilbar Professor of
Mathematical finance at King & College,
London. Formerly Managing Director of Fitch Solutions, during
his 14 years in the industry Damiano published more than 50
works in Mathematical Finance, Probability and Salustiats, and
field reference books in storbastic interest rate and credit
modelling. He is Managing Editor of the International Journal
Fitch Aphicory Damia and in the Scientific committees for
conferences occurring at several academic institutions
worldwide. He holds a Ph.D. in stochastic fiftering with
differential geometry.

- Credit Default Swaps (CDS); Corporate Bonds; CDS Big Bang
- Single Name Credit Models (1h) Reduced Form, hazard rate and Intensity
 Deterministic intensity: piecewise constant or linear Calibration: CDS's with examples Parmalat and Lehman Hints at stochastic intensity modelling

• Multi Name Credit Derivatives

(30min) First to default Default baskets Credit Indices
CDO tranches
DJ-i-Traxx and CDX and related tranches CDOs and the crisis

 Multi Name Reduced Form Models & Copulas (2h) Introduction to copulas; Gaussian

First and n-th to default with copulas CDO's with Factor copulas Implied correlation in index tranches. Compound correlation Lack of invertibility. Base correlation.
Negative losses
Known limits of implied correlations pre- and in- crisis Inconsistency at single tranche level, inconsistency across the capital structure, inconsistency across maturities

The LMM-SABR Model: The New Paradigm For **Pricing, Calibrating, Hedging Interest-Rate Derivatives** Modelling In The Presence Of Smiles (9am - 4pm)



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

Management & Head Of Cluantitative Analytics, GBV RBS
Riccardo is Head Of Forth-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 Enginese Diploma and Visiting Fellow at the Applied Mathematical Stories of Materials/Sold State Physics. Prior to joining the RBS Group, he was, at the same time, Head of Barciags, Capilal, where he knowford for rinney parts. Before that he was a Research Fellow in Physics at Corpus Christic College, Oxford, UK. He is the author of several books; the most recent are 'The SABH-LIBOR Market Model Frieng, Calibration and Hedging for Complex Interest Rate Derivatives' (2009) and 'Coherent Stress Testing: A Bayesian Approach' (2010).

- The LIBOR Market Model framework (deterministic volatility)
- Deriving the drifts of the forward rates
- The SABR Model (and how to improve on the Hagan formula)
- Qualitative hedging behaviour
- Combining LMM and SABR
- Analytical approximation to swaption prices
- · Calibrating to caplets and to swaptions

Model Risk Management For Interest Rates, Funding & Credit (9am - 4pm)



Led by: Massimo Morini,
Head Of Credit Models &
Coordinator Of Model
Research, BANCA IMI
Massimo holds a PhD in
Models and Coordinator of Hodel
Boales, Massimo holds a PhD in
Models and Coordinator of Model Research, BANCA IMI
Mossimo is Protessor of Fixed Imited Notes in
Bould and State of Model Research at IMI
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Boales, Head of Model
Boales, Massimo in Model
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Boales, Head of Model
Boales, Massimo in Model
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Boales, Massimo in Model
Boales, papers appeared on journals including Risk Magazine, Mathematical Finance and the Journal of Derivatives.

• Understanding Model Risk

Lessons from the past crises Different approaches to The regulator's view From theory to practice: a practical scheme for model risk management

When The Market Model Changes: Example From Interest Rates How the interest rates market

changed with the crisis Basis spreads, Swaps, FRAs and new relationships for forward rates Explaining the new patterns with collateral, credit and liquidity risk in the interest rate market Models with multiple curves

Revising The foundations: Liquidity, Collateral & Discounting
Separating discounting from Libor in interest rate derivatives

Eonia discounting for collateralized derivatives Computing liquidity charges for non-collateralized derivatives without double counting with

Funding spread and bond basis

 Managing Model Risk When Using Approximations: Example From Interest Rates How the crisis broke the foundations of most

approximations used for interest rate derivatives Interest rate covariances and the swaption approximation in the Libor Market Model

The shape of the term structure and convexity adjustments for CMS Sabr stochastic volatility

The limits of the Hagan

 Model Risk In Hedging: The Case Of The Swaption Smile The difference between model risk in pricing and model risk in hedging An example on SABR vs local volatility models in hedging swaptions

The shadow delta in the swaption smile

Investing In **Commodities** (9am - 4pm)



Led by: Helyette Geman, Director Commodity Finance Centre, UNIVERSITY OF LONDON & ESCP EUROPE

A ESOF EUROPE:

the Commodity Finance Centre and ESOP Europe.
She is a graduate of Ecole Nomele Superieur in Mathematics, holds a Masters degree in Theoretice Physics and Pribs in Probability and Finance.
Professor Geman has been a scientific advisor to major financial institutions, energy and mining

companies for the last 16 years, covering the spectrum of interest rates, catastrophic risk, roude oil and energy, as well as metals and agriculturals. She was previously the Head of Research at Classe des Depots in Plars. Professor Geman was the first president of the Bachelier Finance Society and has published more than 105 papers in top international finance Journals france, Journal of Finance, Matternatural Finance, Journal of Finance, Country of Financial and Finance, Journals of Financial and Finance, Journal of Financial and Finance, Journal of Financial and Financial American Americ

became in 2010 the first Wilmar-International Invit Professor of Commodities Business at Singapore Management University.

- The different ways to get exposure to commodities: **Futures, Commodity** indexes, Structured Notes, ETFs/ ETCs,
- energy and mining equity

Advanced **Portfolio** Management

(9am - 4pm)



Led by: Attilio Meucci. KEPOS CAPITAL

KEPOS CAPITAL

Attio Meuco is the chief risk officer at Kepos Capital IV.

Attion Meuco is the chief risk officer at Kepos Capital IV.

For manufacture of the state of the chief of the ch Springer and numerous other publications in practitioners and academic journals. He holds a BA

PhD in Mathematics from the University of Milan and he is CFA chartholder. Attilio is fluent in six languages and loves physical activity in the outdoors



With quest lectures by Mark Broadie, Carson Family Professor of Business, GRADUATE SCHOOL OF BUSINESS,

COLUMBIA UNIVERSITY
Mark Broads is the Cason Family Professor of
Business at the Graduate School of Business at
Columbia University. He received a 85. from Concell
University and Ph.D. from Stanford University, His
research focuses on problems in the pricing of
derivative securities, risk management, and portfolio
optimization. Polessor Broads is Ifanacial
engineering area editor of Operations Research, and
associate editor of Financia and Stochastics, SLAM
Journal on Financial Mathematics and Computational **COLUMBIA UNIVERSITY**

Management Science and the former editor-in-chief of the Journal of Computational Finance. At Columbia he teaches the elective courses Options Markets, Security Pricing: Models and Computation Ennace and Computing for Business Research. He has given seminars and courses worldwide. Broadels has served as a consultant for a number of financial firms and previously he was a vice service for the Lebona Portuber Govern Berches. vice president at Lehman Brothers (now Barclays Capital) in their fixed-income research group.

- The Modular Steps Of Advanced Risk & Portfolio Management, A Technical
- Factor Modeling: Introduction, Myths & Pitfalls
 Cross-sectional, time-series, statistical

common principles, differences,

The "systematic + idiosyncratic" myth
The new "dominant + residual" paradigm
Models for estimation vs. models for attribution Relationship with financial theory (CAPM

Relationship with optimization theory New Generation Factor Modeling:

"Factors On Demand" Top-down attribution Linear models for non-linear securities On the fly factor modeling Dynamic best pool of factors No-Greek hedging Random matrix theory estimation / fundamental attribution

Tuesday 12 April 2011

16.30

CVA MASTERCLASS

Modeling Wrong Way Risk For Equity Trades

- Equity wrong way and right way trades Partial- and self-relatedness
- Value at default and retention schedule

- Modeling decline before default Cross-asset model Extension to other asset classes



Dmitry Pugachevsky, Managing Director, Global Head Of Counterparty Credit Modelling JP MORGAN

JP MORGAN
Dimty Pugachevsky is a Managing Director with JPMorgan and a global
head of Counterparty Credit Modelling. His responsibilities include
developing new models for calculating CVA across offerent asset
classes and supporting credit portfolio trading. Before starting with JPMorgan in 2008
Dmity was a global head of Credit Analytics of Bear Steams for seven years, being
responsible for modelling the whole spectrum of credit instruments. Prior to that, he
developing models for credit, fresh in among, and requiry derivatives. Dr. Pugachevsky
received his PhD in applied mathematics from Carnegie Mellon University. He is a
frequent speaker for credit conferences and published several papers and book chapters
on modelling counterparty credit risk and pricing derivatives instruments.

Session 2: 40 minutes

- **Practical Hedging Of CVA**
- The complexities of CVA
- CVA greeks
 The unintended consequences of hedging
- Business model for a CVA desk When (and when not) to hedge

 Jon Gregory, Partner



SOLUM FINANCIAL PARTNERS

SOLUM FINANCIAL PARTNERS

Jo Lon Gregory is a partner at Solum Financial and specialises in counterparty risk and CVA related consulting and advisory projects. Saw swrked on many spects of order links in his career, being previously credit files. The new challenge for global financial markets". Jon holds a PhD from Cambridge University.

Session 3: 40 minutes

Panel Discussion

Modelling & Managing CVA In Practice



Giovanni Cesari, Managing Director, UBS
He is the global head of the CVA-Quant team, a Front Office group
responsible for the development of models used to compute, price, and
hedge counterparty credit exposure for the Investment Earls. The test
is also responsible to build the strategic platform to compute exposure
which are used by Risk-Control. Gloverni graduated from the University
received in EPR D from ETH Zunch.



Yann Coatanlem, Managing Director, Head Of The Multi-Asset Quantitative Analysis Group

Head Of The Multi-Asset Quantitative Analysis Group CTT INSTITUTIONAL CLIENT GROUP

Tan Costariem is a Managing Director in Cli Institutional Client Group

Antirage Desk of Salomon Brothers in London in 1994. His current responsibilities include research, development and trading support for the Hybrid and Multi-Asset Dervatives desk, the Commodity desk Prime brokerage globally and Counterparty Credit risk for Global Capital Markets. MACNès key responsibility is to help these businesses at all stages of a new product development cycle: structuring and marketing, analysis of key risk factors and market inputs, modeling and pricing, integration in various front end technology platforms, risk management, market value adjustments, model validation, coefficial pricing and pricing, integration in various front endit approval. Valt. economic capitals, quantitative strategies, etc. Amongst various coefficial productions, such exceptions, and interval productions of the production of the productio

Josh is one of the founding Principals of Valere Capital Patters, a specialist consultancy focusing on fleed income devinetives and complex certific Before that, Josh was Head of consultancy that the second consultancy consultancy consultancy consultancy consultance and principal finance. He holds a PhD from Cambridge University, his thesis concerned the computer modelling of the chemical interactions between proteins and drugs at a molecular level.



Joe Holderness, Managing Director, Global Head Of

Investment Bank Credit Portfolio Group

JPMORGAN CHASE
Joseph Holdeness is currently Managing Director, Global Head of Investment Bank Credit Portfolio Group JP Morgan Chase, he was head of Financial Engineering for Earing Securities in London, and before that Held positions in quantitative analysis and arbitrage strategy at County NatWest and BARRA.

18.30 Audience Q&A & Industry Round Up

Champagne Roundtable Discussion Groups 18.40

Enhanced Volatility Modelling & Trading

The Variational Most-Likely-Path And Its Applications

- Local volatility in terms of implied volatility nplied volatility in terms of local volatility
- The BBF approximation
 The variational most-likely-path
- An efficient fixed-point algorithm

 Numerical tests with a realistic volatility surface
- Some applications



Jim Gatheral Professor, Department Of Mathematics

Professor, Department Of Mathematics
BARUCH COLLEGE, CUNY
Jim Gatheral is professor of mathematics at Baruch College, CUNY
teaching mostly courses in the Masters of Financial Engineering [MFE]
program. Prior to joining the faculty of Baruch College, Jim was a
adjunctprofessor at the Courant Institute of the Mathematical Sciences, New York,
where for many years he co-taught popular classes in the Masters Program of
Mathematics in Finance. Prior to 2005 he headed the Equity Quantitative Analytics
groups at Merrill Lynch. Over his long career in the financial markets, he has been
rinolved at one time or other in all of the major derivative product areas as bookrunner,
risk menager and quantitative analyst. Jim has a BSc in mathematics and nature
philosophy from Glasgov University and a Pfb in theoretical physics from Cambridge
University. His research focus is on volatility modelling and modelling equity market
microstructure for algorithmic trading. His best-selling book, if the Volatifix Surface: A
Practitioner's Guide (Wiley 2006) is one of the standard references on the subject of
volatility modelling.

Exploring A New Model Of Stochastic Volatility With Jumps

- Capturing stochastic volatility and gap risk
- Analytically tractable pricing of vanilla and forward starting options Efficient valuation of first generation exotics FX Calibration example

Martijn Pristorius Reader In Mathematics

IMPERIAL COLLEGE LONDON

Martin Patroius completed his Ph.D. in 2003 at the University of Utrecht. His research
expertise lies in applied probability, stochastic processes, and applications of stochastic
analysis in mathematical finance. He is Reader at the Department of Mathematics at
Imperial College London, and is Programme Director of the MSc. in Mathematics and
Finance at Imperial. Selege London, and is Programme Director of the MSc and PhD students that he has supervised have
gone on to forge successful careers in quantitative research in the financial industry.

Calibration Of Stochastic And Local Stochastic Volatility Models

- Fast and robust algorithms for Large Scale Purposes
- Techniques to speed up SV least squares minimizations LSV calibration methods and examples in Equities
- Jan H. Maruhn

Quantitative Researcher For Equities, Commodities & Funds

Commodities at Fulnas

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.

Audience Q&A & Industry Round Up 13.00 Lunch & Networking Break

13.10

An Efficient Implementation Of Stochastic Volatility By The Method Of Conditional Integration

- Uncorrelated stochastic volatility
- Accounting for non-zero correlation
- Application; fast and accurate SABR (process vs approximation) calculations
 The forward smile distribution and the expected forward smile
- Correlated stochastic volatility processes
 Application: cross FX options and correlation swaps
 William McGhee



Head Of Hybrid Quantitative Research

RISM
William McGhee is a Managing Director and Head of Hybrid Quantitative
Research at the Royal Bank of Scotland Group in London. William started
his career at JP Morgan as a member of the Derivatives Research Group focusing on
Foreign Exchange. He went on to run the FX Product Development teem at Deutsche
Bank and the FX Quantitative Strategy group at Cit.

Farkas Lemma & Spread Options

- Existence of a joint distribution that matches marginals and the
- distribution of the spread
 Connection to Farkas lemma
 Constructing joint distribution using various methods
- Impact on other (index, non-standard spread) options



Vladimir Piterbarg Global Head Of Quantitative Analytics Group

Valorim Petherary is a Managing Director and the Head of Quantitative Analytics at Bardsya Capital. Before joining Barcleys Capital in March 2005, he was a co-head of quantitative research for Bank of America, where he had worked for 8 years. Walderim Petherary's man areas of expertise are the modelling of exotic interest rate and hybrid derivatives.

Audience Q&A & Industry Round Up

Finite Difference Based Calibration & Simulation Of Stochastic Local Volatility Models

- Forward and backward PDEs
- Forward and backward finite difference schemes Application to calibration
 Finite difference schemes as Markov chains
- Application to simulation

Jesper Andreasen Global Head Of Quantitative Research

Global Head Of Ucularitative Research Department at DankSKE BANK
Jesper Andreasen heads the Quantitative Research Department at Danke Bank in Copenhagen. Prior to this, Jesper has held position the quantitative research departments of Bank of America, Nordea, and General Re Francial Products. Jesper's research interest include: term structure modeling, volatility smiles, and numerical methods. In 2001 Jesper received flisk Megazine's Quant of the Near aware of the Near American Jesper Research (Near Programme Programme).

1710

Market Update: Attractive Trading Opportunities & Current Investor Focus Areas In Equity Volatility



Pete Clarke European Head of Equity Derivatives Strategy

Citi

Pete Clarke is Citi's European Head of Equity Derivatives Strategy, based on the trading floor in London. He has been with Cit since 2006. Pete worked at Drescher Kleinwort Wässerstein in a similar strategy role, and at spent a number of years as a strategic consultant to the energy and utility

17.50

Panel Discussion

VOLATILITY TRADING PANEL

Examining The Latest Strategies For Successful Volatility Trading



Euan Sinclair

BLUEFIN TRADING

DECENTI HADING

DIFFERM THE STATE AND THE ST



Peter van Kleef

LAKEVIEW CAPITAL MARKET SERVICES

The VIEW OAT HAL INMARCE SERVICES

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



Peter Carr Global Head Of Market Modelling

Global Head Of Market Modelling MORGAN STANLEY & Director, Masters In MF Program, NYU is also the Executive Director in Masters In MF Program, Stanley in NewYork. He is also the Executive Director of the Masters in Mathematical Finance program at NYU's Courant Institute. Prior to his current positions, he headed quantitative research groups for 10 years at Bornel University, after obtaining his Prib in finance from Lucker positions of ref years at Comel University, after obtaining his Prib in finance from Lucker published extensively in both pasterine and industry-priented journals. He is currently the treasurer of the Bacheller Finance Society and an associate editor for 8 journals related to mathematical finance. He recently won the ISA Medial for Science for the CGMY model from the University of Bologna and has been named the 2010 IAFE/ SunGard Financial Engineer of the Viser. Previous awards are from Wilmott Megazine for Cutting Edge Research and from Risk Magazine for "Quant of the Year".

Audience Q&A & Industry Round Up

18.40 Champagne Roundtable Discussion Groups

New Innovations In Risk Management & Portfolio Optimisation

11.00

Model Risk Management

- Assessing model risk. Model losses in past crisis and prescriptions from regulators. A practical case study

- How to measure model risk. Construction of worst-case and best-case models. Families of models Model risk management. Hedging, illiquidity and arbitrage. Model reserves or model limits/lines?
- Stress-testing models and using models for stress-testing. Examples on correlations in pricing Massimo Morini

Head Of Credit Models & Coordinator Of Model Research, BANCA IMI

- Bespoke Model Validation
- Model validation philosophy Provisions as a way to reconcile front office and risk interests Examples of bespoke model validation: double-no-touch options,



Alberto Elices Senior Quantitative Analyst, Risk Department

Senior Quantitative Analyst, Hisk Department SANTANDER

A. Elices eamed a PhD in Power Systems engineering at Pontificia Comilise University (Madrid, Spani) 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 Sentander in Madrid after working in a hedge fund in New York.

12.20 Towards A Theory Of Calibration

- Sequential calibration

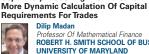
Parametrizing a matrix with a vector

 Payoff dependent dynamics vs dynamical consistency
 Peter Carr, Global Head Of Market Modelling MORGAN STANLEY

& Director, Masters In MF Program, NYU Bio available to view above

Lunch & Networking Break Separately Modelling The Bid & Ask Price For

Audience Q&A & Industry Round Up



Dilip Madan Professor Of Mathematical Finance

Professor Of Mathematical Finance
ROBERT H. SMITH SCHOOL OF BUSINESS,
UNIVERSITY OF MARYLAND
Dilp Madan specializes in Mathematical Finance. Currently he serves as
a consultant to Morgan Stainley, Caspina Capital LC, Citigroup and
Bloomberg and has also consulted for the FIDC and Wachov's Securities. He is a
founding member and immediate Rest President of the Bachelier Finance Scoiety,
respient of the 2006 with Humbolit award in applied mathematics, Warsiging Editor of
bournal of Coreff fields, and Quartitative Financial wave words and scale and control of the
quality of financial valuation models, enhancing the performance of investment
strategies, and adhancing the understanding and operation of efficient risk allocation in
modern economies.

Tuesday 12 April 2011 and Wednesday 13 April 2011

Implied Liquidity & The Hedging Of Liquidity Risk

- The world of two prices: bid and ask price calculation by coni
- Implied liquidity: isolating and quantifying liquidity risk

- Liquidity sensitivity of financial products
 Hedging liquidity risk
 Towards stochastic liquidity modeling and liquidity trading

Wim Schoutens

CATHOLIC UNIVERSITY OF LEUVEN

CATHOLIC UNIVERSITY OF LEUVEN

Win Schulten is a research professor in financial engineering in the Department of Mathematics at the Catholic University of Leuven,

Belgium. He has extensive practiced experience of model implementation and is well known for his consulting work to the banking industry and other institutions. He is an expert advisor to the European Commission (DG-Competition) or "State and assessment of valuation of impaired assets and of asset relief measures: Vim is author of the Wiley books." Lety Processes in Finance, Lety Processes in Credit Risk. Winn is the author of Lety Processes in Finance, Lety Processes in Credit Risk. Winn is the author of Lety Processes in Finance, Lety Processes in Credit Risk. Winn is the author of Lety Processes in Finance, Lety Processes in Credit Risk." Winn is the author of Lety Processes in Finance, Lety Processes in Credit Risk. Winn is the author of Lety Processes in Finance, and Sascoate Editor of Winning and Abaneced Lety Models all published by Willey. He is Managing Editor of the International Journal of Theoretical and Applied Finance and Associate Editor of Mathematical Finance, Quantitative Finance and Review of Derivatives Research.

15.50	Audience Q&A & Industry Round Up
16.00	Afternoon Tea

Real World vs. Risk Neutrality: Application To Risk, CVA & Capital

- Variance predictor: historic volatility vs. implied

- variance predictor: Institute volunity vs. Implied Expectation predictor: role of market forwards and alternatives Limitations of stochastic processes Dynamics of realised vs. forward asset values

Vladimir Chorniy, Head of Market & Counterparty Risk Analytics Group Risk Management, BNP PARIBAS

Lee Moran, Deputy Head of Market & Counterparty Risk Analytics Group Risk Management, **BNP PARIBAS**

Emergent Optimal Hedges

- Minimum-variance hedging
- The yield curve example Instrument hedging
- Underdetermined search
- Choice of calibration specification



Choice of calibration specification
 Tom Hyer, Head of Quantitative Analytics, UBS
 Tom Hyer is the head of Quantitative Analytics at UBS. He obtained a
 BA. from Rice and a Ph.D. from Stanford before beginning his analytics
 career at Bankers Trust; he subsequently worked at First Union before
 initrest rater models, and more recently of the book Derwitevs Algorithms. He has
 devised and implemented models for Libor, bond, equity, credit, RX, cross-currency and
 the section of the Stanford Company of t

1750

Tail-Risks & Dynamic Portfolio Allocation

- Fluctuations & clustering of risks, and persistent tail-risks Post-mortem of diversify-buy-hold strategy & "modern-portfolio-



theory"

Can portfolio allocation hasten the decay of the return fat tails?

Diversified target volatility exposures to global market trends

Vivek Kapoor, Multi-Asset & Hybrids Trader, CTIT

Vivek Kapoor, Multi-Asset & Hybrids Trader, CTIT

Vivek Kapoor, in Coreating systematic investment & hedging strategies spanning multiple asset classes. These strategies include rategies period, and equity & credit volatility & correlation risk-premiums. Vive has worked in capital markets trading its kin smangenment rices since2000. He received his PhD from MIT for research on dispersion & uncertainty of transport phenomena in random profus media.

Audience Q&A & Industry Round Up 18.30 18.40 Champagne Roundtable Discussion Groups

The Latest Developments In Derivatives Regulation & Capital Requirements

Understanding The Implications Of The Proposed Regulatory Initiatives On Central Clearing For Financial Services Firms

Stacy Coleman, Vice President, Financial Infrastructure Department, Bank Supervision Group

FEDERAL RESERVE BANK OF NEW YORK

Bio on pg. 5

The Three Cs Of OTC Derivatives: Collateral, Clearing & Counterparty Risk



Rama Cont, Director, Centre For Financial Engineering

Centre For Financial Engineering
COLUMBIA UNIVERSITY
Rama Cort is also the Senior Research Scientist in Mathematics at CNRS
based in Paris and 16 funding 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-falled 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 (FCR Poss., 2003) and
Frontiers in Quantitative Finance; volatility and credit risk modeling Wiley 2008. He is
the Editor-O-Model of the Encyclopeda of Quantitative Finance Wiley, 2018.

12.20

Thinktank Session

CENTRAL CLEARING UNDER THE **MICROSCOPE**

What Does It Mean For Derivatives Modelling, Pricing & Business Strategies?

Jon Gregory, Partner SOLUM FINANCIAL PARTNERS Bio on pg. 4



Marco Avellaneda, Professor Of Mathematics COURANT INSTITUTE OF MATHEMATICAL

COURANT INSTITUTE OF MATHEMATICAL SCIENCES, INEW YORK UNIVERSITY Marco Availancia is currently Professor of Mathematics and Director of Division of Financial Mathematics at New York University's Courant Institute of Mathematical Sciences. He began his Well Street career as vice-president in the Morgan Strately Periarville Products Group. Subsequently, he was portfolio manager in equity volatility Strategies at Gargoyle Strategic Investments LLC, Head of Volatility Arbitrige at California Fund, and, more recently, Portfolio Manager in quantitative equity strategies at the Galleon Group in New York. He is known in academic firmence as the inventor of the Uncertain Volatility modern and for his work on the Weighted Mortle Cario algorithm and the theory of Dispersion has extensive experience in the fields of derivatives, quantitative strategies in equilies and volatility trading from the point of view of hedge funds and Wall Street firms. He is also in the editorial boards of Communications on Pure and Applied Mathematics, the International Journal for Theoretical and Applied Harberatics. From Theory to Practice, and edited several other books and conference proceedings.

Director, Centre For Financial Engineering **COLUMBIA UNIVERSITY**

Audience Q&A & Industry Round Up	13.00
Lunch & Networking Break	13.10
	14.30

Design & Analysis Of Contingent Capital

- Overview of alternative regulatory proposals for contingent capital and actual issuances to date
- Adulting debt that converts to equity in a crisis

 Comparing market-based triggers and regulatory capital triggers

 The impact of capital ratios and recovery rates on valuation

Paul Glasserman Jack R. Anderson Professo COLUMBIA BUSINESS SCHOOL

CULUMBIA BUSINESS SCHOOL

Paul Glasserman is the Jack P, Anderson Professor at Columbia Business School and a visiting scholar at the Federal Reserve Bank of New York, and the unrently chairs the Education Committee of PRIMIA, the Professional Risk Managers International Association. His publications include the book "Monte Calor Methods in Financial Engineering," which received the 2006 Lanchester Prize, and he is also a recipient of Risk's 2007 Quant of the Year Award.

Is Standardisation The Enemy Of Innovation?: Assessing The Impact Of Moves Towards Standardization On Financial Products, Incentives & Future Innovation

15.50 Audience Q&A & Industry Round Up 16.00 Afternoon Tea

BASEL III MASTERCLASS

Assessing The Impact Of The Comprehensive Risk Measure (CRM) On The Correlation Business Under Basel III

- Modelling the Dynamics of the Correlation Skew Relating Modelling Assumptions back to the Empirical Data Implementational Challenges
- Implications for Pricing and Risk Management

Director, Co-Head Of Credit Derivatives Research

EURISCIDI, CO-PIEBO UT Credit Derivatives Research
BANK OF AMERICA MERRILL LYNCH
Within Credit Research David's main interests are prioring and hedging of CDOs and
correlation products counterparty risk and dynamic models of credit risk. Since 1998
Bowld has worked as a quantitative analyst on PK, highd's fiventers trate and Credit
products. Before that David was a postdoctoral theoretical physicist in Canadia and
Oxford for 2 years, after receiving a DPhil in Theoretical Physics from the University of
Oxford.

Incremental Risk Charge & Comprehensive Risk Measure: Designing A New Market Risk Management Framework

- Methodological issues: numerical puzzle, backtesting of the model
- How to make the model validated?
 - Basel 2 culture in the market world: is market risk management going to change?

 Vivien Brunel



Head Of Economic & Regulatory Capital SOCIÉTÉ GÉNÉRALE

Vivie Brunel holds a PhD in theoretical physics. He joinded Société Générale in 2001 were he was working on the RAROC project. In 2006 he joined SGAM Alternative Investments as a credit structure. He is now head of Economic and Regulatory Capital at Société Générale; his team is in charge of developing pillar 1 regulatory capital andols (IRC and CRM, IAA approach for securitisation, operational risk), pillar 2 models (economic capital, stress testing) and risk appetite methodologies. Vivien is also assistant professor at Ecole des Ponts Paris Tech, a top French Grande Ecole.

The Theory Of Granularity Adjustments Revisited: How To Value & Risk Manage A Book Of Credit-Sensitive Instruments Without Simulations?

- Basics about granularity theory The mathematics behind the main idea
- Expansion to multi-factor models
 Application to risk measure calculations

 Jean-David Fermanian



Professor Of Finance & Statistics CREST/ENSAE

Provious/J. Jenn-Davi Mass Senior Credit Derivatives Quant at BNP-Paribas (London). Just prior to joining BNP-Paribas, he was the Head of risk methodologies at bis 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.

18.30 Audience Q&A & Industry Round Up

18.40 Champagne Roundtable Discussion Groups

Main Conference: Day 2 Wednesday 13 April 2011

08.30 Morning Coffee

The Latest Counterparty Risk, Collateral & **Correlation Modelling Techniques**

Understanding How Collateral Is Modelled, How It Interacts With The Trade & How It Is Included In Counterparty Risk

- Understanding and modelling collateral payments when calculating $\ensuremath{\text{CVA/DVA}}$
- The role of clearing houses
- Market changes to discounting using OIS curves for collateralised trades and the implications for CVA/DVA



Global Head Of Quantitative Risk & Valuation Group

HSBC

Sial's PhD, under the supervision of Professor Chris Rogers, examined Probability Theory applied to problems from the Financial Markets. Since 2001 he has held various positions at HSBC Investment Bank based in Canary Wharf Lordon and he took up his current position as Global Head, Quantitative Risk and Valuation Group in June 2009. Fisies labs had extensive exposure to modelling and pricing problems within FX, Fixed Income, Credit, Equity and Hybrid Derivatives. His current role spans issues across all of these asset classes.

09.40

Trading CSAs

- Aggregation of different CSAs in a trading book Pricing non-standard CSAs Gap risks and bad correlations Cost of initial margin in central clearing



Cost of Initial margin in Central clearing
 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 evotic rates trading book. In prior roles he held responsibilities for USD rates exotics and hybrids trading books.

A Unified Approach To Correlation CVA & Collateral Dynamics

- Introduction: SPV issuance for CDO tranches
- Liability CVA & FVO modelling Collateral depletion as a Stopping-Time problem
- Collateral Dynamics: a Jump-Diffusion process Correlation between the Collateral and the CDO: the Feedback effect

Youssef Elouerkhaoui, Managing Director, Global Head of Credit Derivatives Quantitative Research, CITI

Research, CITI

Usused Flourethaouis the Global Head of Credit Derivatives
Clustriative Research at Cit. His group supports all aspects of product
development and modelling acress cleeks, this overser credit trading, correlation trading,
CDOs, credit exotics and emerging markets. Prior to this, he was a Director in the Fixed
Income Derivatives Quantitative Research Group at ILBS, where he was in charge of
developing and implementing models for the Structured Credit Derivatives Desk, Before
poining USR, Oussed was a Quantitative Research Analyst at Credit Uprainals supporting
the Interest Rates Exotics business. He has also worked as a Senior Consultant in the
Risk Analysts and Research Group at Ernst & Young, He is a graduate of Ecoel Centrale
Paris, and he holds a PhD in Mathematics from Paris-Dauphine University.

Audience Q&A & Industry Round Up

11.10

EXTENDED SESSION

Morning Coffee & Networking Break

Correlations In Asynchronous Markets

- Deriving correlation estimators for asynchronous markets Historical behaviour of correlations: S&P500, Stoxx50, Nikkei
- Comparison with common heuristic estimators
- Pricing correlation swaps Materializing correlations larger than 100%



Matenalizing correlations larger than 100%
 Lorenzo Bergomi
 Head Of Quantitative Research, Global Markets,
 SOCIÉTÉ GÉNÉRALE
 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, Socialy, 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.

Wednesday 13 April 2011

13.00 Audience Q&A & Industry Round Up 13.10 Lunch & Networking Break 14.30

Extending Dupire-Local Volatility To Incorporate Non Trivial Behaviour Of Correlation

- We provide evidence that equity index option markets have encoded non-trivial correlation structures between its components known as "correlation skew"
- We show how this information can be extracted and built into a consistent modelling framework by making correlations dynamic variables of the portfolio
- variauries or the portrolio
 We propose a generalization of Dupire's local volatility model called
 'Local Correlation Model' (LCM) that is achieving consistency with
 both: the constituent as well as the index options markets
 We link the results to 'systemic' risk of a portfolio



Alex Langnau, Global Head Of Quantitative Analytics ALLIANZ INVESTMENT MANAGEMENT

ALLIANZ INVESTMENT MANAGEMENT

Alex Langnus is Global Head of Quantitive Analytics at Alianz
Investment Management. He is also Visiting Scientist at the Ludwig
Investment Management. He is also Visiting Scientist at the Ludwig
Clobal Head of Equity Munich Pior to this he held witance roles across
the industry including Global Head of Quants across asset classes at Dresdrier Bank
Clobal Head of Equity Dennetwes Modelling at Mentil Lundy and Global Head of Exotic
Equity Derivatives Modelling at Goldriam Sachs. He started his career as a member of
the Global Analytics team at Blakers insufficient Successful Services and Complete Physics from the Starford Linear Accelerator Center and completed his post-doc in the
area of Theoretical Particle Physics at Comell University. His current research interests
include dynamic modelling of correlations and high frequency trading strategies.

A Local Correlation Model: Motivation & Practical Implementation

- Pricing and risk management for multi asset derivatives
- Local correlation models: calibration and estimation
- Comparing the overhead to classical multi local volatility
 Calibration: using the fixed point algorithm as an effective tool in practice
 Usage: using a dimension extension to avoid time consuming path generation

Adil Reghai, Head Of Equity, Commodity & Arbitrage Research

NATIXIS

Adl Repla is an alumni of Ecole Polytechnique of Paris and Ecole des Mines of Paris.

Adl Repa is an alumni of Ecole Polytechnique of Paris and Ecole des Mines of Paris.

Adl has worked as a senior quant and head of research in several houses such as BMP.

Paribas, Merill Lynch, Dresdren Keinwurt Benson and Calyon, Now Adi is in orbarge of the Equity and Commodity and Arbitrage Research with Nativis based in Paris.

15.50 Audience Q&A & Industry Round Up 16.00 Afternoon Tea 16.30

Dispersion, Volatility & The Dynamics Of Correlation

- Signatures of market panics on multiple time-scales
- signatures of market partics of multiple time. The memory structure of correlation Interaction between volatility and correlation Implications for trading and hedging



Lisa Borland, Director Of Derivatives Strategies

EVNINE & ASSOCIATES

EVNINE & ASSOCIATES
Las Bordani is currently Director of Derivatives Strategies at Evnine & Associates, Inc., a San Francisco based hedge fund. She received her Associates, Inc., a San Francisco based hedge fund. She received her Kuttager, and a fitter some years of working in academia she moved in to the field of finance. She has many publications, and her most stratelle work has probably been the development of a theory for non-Gaussian option prioring. However, her main interest is more general; remely to try and understand the dynamics of financial markets, and more general; namely to try and understand the dynamics apply that knowledge to trading strategies and risk control.

A Comparative Analysis Of Correlation Approaches In Finance

- Analysis of the correlation models: Binomial, Correlating Brownian Allariss of the Contention Houses, information, Contenting Brownian motions, Copulae, Conditionally independent modeling (CID), Contagion modeling, Markov modeling and stochastic time change Should we model bottom-up or top-down? Can we blame the 2007/2008 crisis on the Copula? So what's the best correlation model?



Gunter Meissner, Director MFE Program, UNIVERSITY OF HAWAII

UNIVERSITY OF HAWAII
After a lectureship in mathematics and statistics at the Economic
Academy (kill, Clutter Messere PR) joined Deutsche Bank in 1990,
trading interest rate futures, sweps and options in Frankfurt and New
Nork. He became head of Product Development in 1990, responsible for originating
algorithms for new derivatives products, which at the time were Lookback Options, Multiasset Options, Quantor Options, Average Options, Index Amortizing Naves, and Bermuda
Sweptions. In 1995/1996 Gunter Meissner was Head of Options at Deutsche Bank Tokyo,
From 1997 to 20/07 Quanter was Professor of France at Hawaii Pacific University,
Currently, he is President of Derivatives Software, Adjunct Porfessor of Mathematical
Finance at NYU and Director of the Master in Financial Engineering program at the Shider
College of Business at the University of Hawaii. Gunter Meissner has published
murrerus papers on derivatives and as a frequent speaker on conferences and seminars.
He is author of 4 books, including his 2008 edition: "The Definitive Guide to CDOs –
Application, Pricing, and Risk Management"

17.50 Audience Q&A & Industry Round Up

18.00 Champagne Roundtable Discussion Groups

The Global Derivatives Trading & Risk Management Cocktail Party

Cutting-Edge Innovations In Interest Rate Modelling

09.00

Multiple Curve Construction For Interest Rate **Derivatives: Overcoming The Challenges Of** Forecasting & Discounting Off Different Curves

- From textbooks to reality the need for multiple related curves Distinguishing between instrument & curve dependence Pricing & risk consequences of interpolation choices in multi-curve systems
- Calibration: Speed and accuracy

Calioration: speed and accuracy
 Applications to funding modelling
 Igor Smimov, Global Head Of Flow Research Group, BNP PARIBAS
 Igor sepansels for quantitative research and modelling of flow products across Fixed
 local research and modelling of flow products across Fixed
 local including Interest Rates, Credit, Mortgages and other product areas) at BNP
 Paribas. He has tackled a number of research areas during lisc career, with a long
 standing focus on term structure modelling and risk dimensionality issues, and more
 recently liquidity, funding and counterparty risks.

On The Term Structure Of Interest Rates With Basis Spreads, Collateral & Multiple Currencies

- Construction of swap curves under the presence of collateral and various basis spreads
- No-arbitrage dynamics of the collateralized Libor forwards and basis
- spreads Choice of collateral currency

Akihiko Takahashi

Professor, Graduate School of Economics

Professor, Graduate School of Economics UNIVERSITY OF TOKYO Graduated from the Faculty of Economics, University of Tokyo, Received his Ph.D.from the Haas School of Business. University of California at Berkeley, After working for the Industrial Bank of Japan and Long Term Capital Management, started as Associate Professor at the Graduate School of Mathematical Sciences, University of Roby and later joined the Graduate School of Economics in 2003. Has been Professor in 2007.

Parsimonious HJM Models For Multiple Yield-**Curve Dynamics**

- Stylized facts on money market rates
- Volatility constraints for yield curve dynamics

- Multiple-curve HJM framework
 Calibration examples
 Implying swaption volatility surfaces for different Libor tenors
- Conclusion and further developments



Andrea Pallavicini Head Of Financial Engineering

Head UT Financial Engineering

Annica LeonoMand

Andrea Pallavioni is Head of Financial Engineering at Banca Leonardo in

Mill, 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.

11.00	Audience Q&A & Industry Round Up
11.10	Morning Coffee & Networking Break

11.40

Libor Market Models With Stochastic Basis

- Stylized facts of the interest rate market
- Using different LIBOR and discount (OIS) curves Extending the LMM to the multi-curve case
- Modeling stochastic basis
- Proteining Stochastic Dasis
 Deriving closed-form formulas for caps and swaptions
 Modeling correlation between OIS rates and basis spreads

 Fabio Mercurio



Senior Product Manager BLOOMBERG

BLOOMBERG

BOOMBERG

BOOMBERG

BOOMBERG

Previously, he was the head of the Financial Engineering at Banca IMI, Milan. He holds a BSc in Applied Mahematics from the University of Padua and a Ph.D. in Mathematical Finance from the Ensamus University of Rotterdam. His recent scientific interests include interest rate and inflation modelling for pricing and hedging exotics, the pricing of hybrids and the smile modelling for different asset classes. Fallo hes published extensively in books and international pumals, including outling-adog articles in Risk Magazine. He also jointly authored the book 'Interest rate rounder shows and insertion'. models: theory and practice'

Expansion Techniques In Interest Rate Modeling

Alexander Antonov

enior Vice President, Quantitative Research NUMERIX

NOVIVENIX
Alexander 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.

13.00 Audience Q&A & Industry Round Up Lunch & Networking Break 13.10

Looking (Again) At Caplets Versus Swaptions Using The LMM-SABR Model

- Establishing the relative value of swaptions versus caplets
 Using no-arbitrage conditions to find bounds for swaption prices
 A virtual model-replicating static super-replicating strategy
 Unlocking how the market prices swaptions in practice

 Riccardo Rebonato



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

RBS

No Arbitrage SABR

- The trouble with expansions
- Numerical solution by finite difference and comparison with Numerical solution by one-time-step finite difference
- Second order accuracy and complex time
 Comparison of accuracy, stability, and computational time with
 expansions and full finite difference solution



Jesper Andreasen Global Head Of Quantitative Research DANSKE BANK

Brian Huge Chief Quantitative Analyst DANSKE MARKETS

15.50 Audience Q&A & Industry Round Up 16.00 Afternoon Tea

Practical Application Of SABR Volatility Curves



Practical Application Of SABR Volatility Curves

Replication in the presence of pronounced SABR volatility smile

Joint dynamics of CMS underlyings

Co-dependency in CMS spread option models

Risk management of correlated derivative products

Risk management of correlated derivative products

Dong Qu. Slobal Head Of Quants, UNICREDIT

Dong Qu is the global head of quants at UniCredit. He previously vorted at banks including HSSC, Nikko and Santander. His main work has been on the quantitative pricing and hedging models for structured practical aspects of the derivative business, in particular sound and efficient management of derivative products within trading and risk infrastructures. He has a PhD in Statistical Optics from Imperial College London, and BSc in Physics from East China Institute of Technology.

17.10

Measuring Risk Premia In Rate Curves

- Modelling nominal interest rates Statistical estimation of the models: change of measure, Kalman filtering
- Incomporating inflation: a 4-factors model
 Measuring risk premia in nominal and real bonds
 What about credit risk?



Julien Turc, Head Of Quantitative Research, Cross-Asset, Research Group SOCIÉTÉ GÉNÉRALE CORPORATE & INVESTMENT

BANKING

Julien is head of Quantitative Research within the Cross-Asset

Research group at Societé Générale Corporate & Investment Banking. The quantitative research team is active in global macro and relative value strategies, derivatives and structurel productis, and provides research to investors worldwide. Over the past 13 years, Julien's research team is active in global macro and relative value credit derivatives and provides research has covered topics ranging from exotic credit derivatives pricing to statistical relative value and cross-seaset startegies. Julien is a garduate of the Ecole Polytechnique and ENSAE and teaches credit derivatives at Paris VI

17.50	Audience Q&A & Industry Round Up
18.00	Champagne Roundtable Discussion Groups

18.30 The Global Derivatives Trading & Risk Management Cocktail Party

New Advances In Commodities Trading & Risk Management

Generic Commodities Exotics: Is A Model For Crude Any Use For Coffee And Copper?

Alan Stacey, Executive Director

NOMURA

And Stacey worked for ten years as an academic probabilist, mainly in the pure mathematics department at Cambridge University but also as a professor at UCLA and elsewhere. He joined the financial sector in 2003, receiving excellent early mentoring from Mark. Joshi and Riccardo Rebonato at RBS. He joined the front office interest rate quant team at Lehman Brothers in London in 2005 working for Zhengyun Hu and very closely with the highly quantitative trading desk, and was there until the end. Since 2008 he has worked for Normura and since early 2009 he has worked in the field of commodities excites modelling and on a good day will have an idea which attracts the interest of his Doss, Martin Batter.

Option Pricing & Hedging By Risk Minimization With Multiple Factors & Transaction Costs

- Option pricing as a risky business
- Hedged Monte Carlo approach in a multi-factor setting

Handling transaction costs
Market-implied risk premia
Examples of pricing and hedging of commodities options

Igor Halperin, Vice President In Quantitative Research, JP MORGAN |
Igor Halperin is Vice President In Quantitative Research, JP MORGAN |
Igor Halperin is Vice President in Quantitative Research at JP Morgan. He is responsible for model research in the areas of credit and department of Finance and flisk Engineering at NYU Poly Indica Phol. In Theoretical High Energy Physics, and has worked in physics before mowing to finance.

Developing Efficient Jump Models To Identify & Understand Volatility In The Commodities Market

- 2 and 3 factor models of commodity futures prices driven by jump
- diffusions developed
 Long term (permanent market) and short term (transitory trading)jumps modelled differently
 Efficient new extended Kalman filter calibrates the models
- Jumps in historical calibration data identified and analyzed to give market understanding Options on futures priced in closed form to incorporate convenience



yield volatility smiles and skews resulting from short term jumps

Professor Michael Dempster, Founder Of The Centre
For Financial Research, CAMBRIDGE JUDGE BUSINESS SCHOOL & Professor Of Management

BUSINESS SCHOOL & Professor Of Management Studies Emeritus Michael A H Dempster is Managing Director of Cambridge Systems Associates Limited and Professor Feneritus, Centre for Financial Research, Department of Pure Mathematics and Statistics, University of Cambridge, Michael Dempster has taught and researched in leading universities on both sides of the Atlantic, including Oxford, Cambridge, Stanford, California-Berkeley, Princeton, Toronto and Rome, and is currently founding Edition-Fichiel of Quantitative Finance and an Associate Editor of Stochastics, Computational Finance and the Journal of Risk Management in Financial Institutions. Michael is Edition-Fiol of the Oxford Handbooks in Finance and Co-Editor of the Chapman & Hall (TRC Mathematical Finance Series. He has been consultant to a number of global financel institutions, corporates and governments and is regularly involved in executive education in financial engineering and risk management around the books includes Stochastic Programming, Derivative Securities (with S R) Piskal, Risk Management: Value at Risk and Beyord and Quantitative Fund Management (with G Mittra and C Pflug). His work has won several awards and he is an Honorary Fellow of the UK Institute of Actuaries.

11.00	Audience Q&A & industry hound up
11.10	Morning Coffee & Networking Break

Wednesday 13 April 2011

New Classes Of Markovian Factor Models With Stochastic Volatility & Jumps for Commodity

- A broad class of diffusion mean-reverting and co-integrated Markovian factor commodity futures price models
- A new no-arbitrage model with bounded futures prices and the corresponding spot model

 Markovian factor futures curve models driven by jump processes
- Affine multifactor futures curve model with Heston stochastic
- volatility and mean-reversion
 Applications to crude oil and natural gas futures price curves



Alex Levin, Director & Head of Methodology, Market & Trading Credit Risk, ROYAL BANK OF CANADA

ROYAL BANK OF CANADA

Alex Levin holds a PhD in Numerical Mathematics from Dniepropetrovsk University, Ukraine. He was a Director of Risk Analytics in Bank of Nornteal and Toronto Dominion Bank, Managing Director of Risk Analytics (Counterparty Credit Risk, VaR and Stress Testing, Specific Risk and Model Risk) in Watchova Bank (2004-2007), and Primcpal Financia Engineer at Algorithmics Inc. Dr. Levin also taught various Risk Management and Numerical Quantitative Finance courses at the Master of Mathematical Finance Programs at University of Toronto, University of North Carolina at Charlotte and University of Lecester. His quantitative research overs storchastic volatility and jump process models in derivative pricing and Risk Management, Commodity and Counterparty Risk modelling, CVA, affine models for equity and volatility derivatives, and fet-tailed distributions for Market Risk.

The Impact Of Hedgers & Speculators On Long-Term Oil Prices

- Oil price spikes: fundamentals or speculation ? Keynes' theory of normal backwardation
- Investors as macro-economic hedgers

Storage operators as risk absorbers
 Modern theory of normal contango

Ilia Bouchouev, Managing Director, Global Head Of Energy

Ilia Bouchouev, Managing Director, Global Head Of Energy Derivatives, ROCH SUPPLY & TRADING
For the last twelve years lia Bouchouev has been managing the global energy denvertees business for Koch Industries, the world second largest privately held company, Koch's energy derivatives group is one of the leading quantitative traders and liquidity providers for corporate end-users, and hedge funds. The group operates globally with trading desks in New York, Houston, Winthia Klarssel, Geneva, and Singapore. This team has ponemed a number of unique energy demanties instruments and been destinated to the provider of the providers of

Audience Q&A & Industry Round Up

13.10 Lunch & Networking Break

14.30

Strategies For Overcoming Challenges In Energy Risk Management

- Commodity market price of risk and market price of volatility risk Modelling spot energy prices: from mean-reverting jump-diffusion to regime-switching models
 Pricing derivatives in incomplete/ low-liquidity markets: e.g.
- interruptible contracts, load-following services
 Using the richness of energy markets' derivative structures
 The challenge of extrapolation
 Ehud I. Ronn, Practice Area Manager, Commodity



Ehud I. Ronn, Practice Area Manager, Commodity Market Modelling, MORGAN STANLEY
Brust I. Ronn is the Practice Area Manager, Commodity Market Modelling at Morgan Stanley & Co. He pined the Firm Jan. 1, 2010
the University of Tobas at Austin and from 1957, director of 1s Center for Energy Finance at Behavior of 195 and 195 and

Shipping Markets & Global Commodities Helyette Geman, Director Commodity Finance Centre UNIVERSITY OF LONDON & ESCP EUROPE

15.50 Audience Q&A & Industry Round Up 16.00

A New Approach For Efficient Modelling Of Forward Curves For Agriculturals

Speaker tbc

Measuring Correlation Risk For Energy Derivatives

- Correlation in commodities markets Correlation risk
- Perturbation methods of correlation matrices
- Numerical examples

• Numerical examples Roza Galeeva, Executive Director, MORGAN STANLEY Roza Galeeva is an Executive Director at Morgan Stanley. She started her career at MS in 2006 in the Financial Control Group, working on models review and model control process. In 2010 she joined the Commodities Markett Modelling Group. Roza Galeeva holds PhD in Mathematical Physics from Moscow State University. She has numerous papers on dynamical systems and applications in financial engineering and broad teaching practice in different universities over the world. She has extensive experience in modelling energy derivatives and risk management. Prior to MS she worked at Northeast Utilities and Williams.

17.50	Audience U&A & Industry Hound Up
18.00	Champagne Roundtable Discussion Groups

18.30 The Global Derivatives Trading & Risk Management Cocktail Party

New Techniques For Pricing & **Hedging Hybrid Products**

New Techniques For Modelling Hybrid Capital Securities

- Hybrid capital: an overview of the market, instruments, etc.
- Market developments, regulation impact, some examples
- Potential risk factors



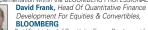
Models: from simple to complex
Empirical evidence

Andrei Serjantov, Head, Flow Credit Research Group

Andrei Serjamov, Tleau, Florr Color BNP PARIBAS Andrei Serjamov is currently heading up the flow credit research group at BNP Paribas. Prior to this, he was a quantitative analyst in the fixed income research team of BNP Paribas and Advanced Research Centre at lobal Advisors. Andrei holds a PhD and MA in Computer State Street Global Advisors. Andrei holds Science from the University of Cambridge.

Fast Calibration & Pricing Of Convertibles Using A Jump Diffusion Model With Stochastic Credit

- Stochastic Credit: the Equity-to-Credit Link (E2C)
- Modeling the main value drivers
- How the model treats features such as Dividend Protection, Cross Currency, Contingent Interest, etc.; Non-economic Behaviour Fast calibration to listed options and CDS in the presence of E2C Implementation within the BLOOMBERG PROFESSIONAL® service



Development For Equives a ComBLOOMBERG
BUND Hank is head of Quantitative Finance Development for Equities and
Convertibles at Bloomberg. His group is responsible for design and
implementation of the derivatives pricing models delivered on the BLOOMBERG
PROFESSIONAL® service. David has been involved in derivatives pricing since the early
1090's when he headed research and development for the pioneering derivatives

Assessing The Pricing & Convergence Of Discretely Monitored Variance Derivatives & Volatility-Equity Hybrid Derivatives

- Pricing discretely monitored generalised variance swaps Pricing discretely monitored proportional variance swaps Pricing discretely monitored skewness swaps



Prioring discreties / monitored securioses swaps
Convergence to continuously monitored counterparts
Implications for trading and hedging
John Crosby, Visiting Professor,
UNIVERSITY OF GLASGOW & Executive Director

USS

John began his career by trading PX options. He then moved to Monis them the promotion business School Financial Softwarel where he wrote their princip libraries for a very vide range of exotic derivatives as well as co-writing their effects Convertible bond model, which captured stochastic equity prices, interest-rates and default risk. He then headed quart teams at Barciays Capital and Lloyds where he developed derivatives models across all asset disasses. He is best known for publishing several papers in the area of commodity and hybrid derivatives. John is a visiting Professor at Glasgowy University and an invited lecture on the M.Sc. ocures in Mathematical Finance at Oxford University as well as being an Executive Director in the front-office Fixed Income, Foreign Exchange and Commodity derivatives research and quantitative analytics team at UBS.

11.00 Audience Q&A & Industry Round Up 11.10 Morning Coffee & Networking Break

QUADRATIC VARIANCE SWAPTERM STRUCTURE MODELS:

How Can We Efficiently Capture Extreme Movements & Spikes Of Stochastic Volatility In Multi-Factor Diffusion Models

- Introducing a quadratic term structure model for the variance swap rates Capturing nonlinear phenomena such as rare events and volatility
- clustering
 Model identification and specification analysis
- Testing the model with a cross section of variance swap rates and returns of the S&P 500 Index
- Examining the statistical flexibility of quadratic models and their superiority over the affine class



try over the amine class
Damir Filippović, Swissquote Chair Of Quantitative
Finance & Swiss Finance Institute Professor, EPFL
Damir Filipović is the Swisspute Chair of Quantitative Finance and Swiss
Finance Institute Professor at the Ecole Polytechnique Fédérial et
Lusanne (EPFL) Formerly, he was on the faculty of the University of
Vienna, the University of Munich, and Princeton University, He also
worked for the Swiss Federal Office of Phiete Insurance as co-developer

of the Swiss Solvency Test. Professor Filipović's research focus is in quantitative finance and risk management. He holds a Ph.D. in mathematics from ETH Zurich.

12 20

The Cross-Asset Skew Modelling Challenge

- Issues with cross-asset derivatives
- Cross-asset skew Bringing the cross-asset skew solution to the desk

Youssef Randjiou, Managing Director, Global Head

Of Multi-Asset Derivatives Quantitative Research CITIGROUP

CITIGROUP

Youseh holds a Ph.D. in Probability from Marc Yor's department at Paris VI University. He is also member of the French Institute of Agricole Indexuers. He has worked in quantitative research since 1997 at Crédit Agricole Indosuez. ABN AMRO in the exotic interest rate derivatives business. He joined Deutsche Bank's Globel Equities quantitative research group in London in June 2010. Since October 2003, he has been working at Chigroup where he is currently Global Head of the Multi-Asset Derivatives Quantitative Research team focussing on Multi-Asset derivatives, Equity Inlined structures, Fund derivatives and CVA.

Audience Q&A & Industry Round Up

The Price Of An Equity Variance Swap In A Model With Stochastic Interest Rates

- Deriving a model independent bound on the price of an equity
 - variance swap when interest rates are stochastic Observing the bound is attained in the special case of flat vol

Per Horfelt, Equity Quantitative Analyst

BARCLAYS CAPITAL PhD in mathematics, presently working at Barclays Capital as an Equity Quantitative Analyst. Previously worked at the FCC Research Center and

Mixed Volatility Dynamics (MVD): Pricing & Calibration Of Long Dated Multi-Asset Products

- Market requirements for cross asset models

- Model choices and calibration approach
 MVD formulation and parameters
 Effects and usage of rates and credit dynamics, local and stochastic vol mixtures, correlated SV processes in multi-underlying products

 Examples of pricing and risk sensitivities

 Han Lee, Global Head Of Quantitative Research, RBS



Han Lee, Global Head Of Quantitative Research at RBS Global Bank Lee is currently Global Head Quantitative Research at RBS Global Banking and Markets, responsible for front office quant analytics and development across all asset classes. This covers derivative products, adjorithmic solutions, and CVA analytics. Previously at derivatives and was also global head of quantitative research. Prior to that he was head of quant research at Tokyo Mitsubah International (TMI) he headed the quant desk for the Soutics Derivatives Group. While at TMI he also managed an excitic strating book. He started as a quantitative analyset at Natives Markets in interest and enhances I. Alan received his Ph. D. in Theoretical Physics from the University of Cambridge.

5.50	Audience Q&A & Industry Round Up
6.00	Afternoon Tea
6.30	

VARIABLE ANNUITIES MASTERCLASS

Variable Annuities: Insurance Pricing vs. Market-**Consistent Pricing**

- An optional view of VAs
- Biometric and behaviour risks Arbitrage opportunities Systemic risk: is there a VA bubble?

Systemic risk: is there a VA bubble?
 Yves Lehman Managing Director
 UBS INVESTMENT BANK
 Yves Lehman Managing Director. UBS Investment Bank Yves oversees the global development of UBS is solutions for Variable Annuties, from remained and existing UBS is 2010, Yves Live Segn for retirement and the solution of the control of the control



Camilla Du Boulay, Executive Director

Camilla Du Boulay, Executive Director UBS INVESTMENT BANK
Camils as a sense structure in the Global Equity Derivatives Group at UBS where she has responsibility for developing structured solutions for person funds and the varieble annuises insidistry. She say our 13 years of experience in investment banking, 10 of which have been spent with specific expertises in delivery in UCITS format and advanced CPPI techniquesI and global portfolio trading. Camilla has a first in Mathematics from Oxford University and is a CFA charterholder.

Session 2: 40 minutes

Pricing Inflation-Linked Annuities

- Obtaining a joint calibration for year on year swaps and inflation
- The auto-correlation of inflation rates Structuring inflation-linked variable annuities



Alexander van Haastrecht, Co-Head Of Financial

Australiuer van naastrecht, co-Head Of Financial Engineering, DELTA LLOYD
Van Haastrecht holds a PhD in Financial Mathematics from the University of Amsterdam. He has worked both in the risk management and proing of long dated hybrid deriverbes, and published in several international pumals such as Quantitative Finance and International congruencia and Applied Finance. Currently Mexander is the co-head of financial engineering at Delta Lloyd and he holds position as assistant professor at the VU University Amsterdam.

Audience Q&A & Industry Round Up 18.00 Champagne Roundtable Discussion Groups

The Global Derivatives Trading & Risk Management Cocktail Party

Main Conference: Day 3 Thursday 14 April 2011

08.20

18.30

Chairman's Opening Address

GUEST QUANT ADDRESS The Role Of Mathematics In Finance:



Paul Wilmott, Author, Researcher

Paul Wilmott, Author, Researcher, Eucator and Founder of Wilmott.com
Paul Wilmott as financial consultant, specializing in delivative, risk
management and quantitable finance in the bas worked with many leadin
US and European financial institutions, the is the author of Paul Wilmott
includes Quantitable Finance (Welly 2007), Paul Wilmott
includes Quantitable Finance (Welly 2007), Paul Wilmott
finance and mathematics, Paul Wilmott was a founding patiner of the volatility arbitrage
Miley 2009) and other financial textolosis. He has written over 100 research articles on
finance and mathematics, Paul Wilmott was a founding patiner of the volatility arbitrage
finance and mathematics, Paul Wilmott was a founding patiner of the volatility arbitrage
www.wilmott.com, the popular quantitative finance community website, the quant
magazine Wilmott and is the Course Director for the Certificate in Quantitative Finance

Thursday 14 April 2011

GUEST ACADEMIC ADDRESS

The Neuroscience Of Risk & Reaction Times



John Coates, Senior Research Fellow In Neuroscience & Finance

Neuroscience & Finance
UNIVERSITY OF CAMPRIDGE
After completing his PhD at the University of Cambridge, John Coates
Deutsche Bank. During the years of the Dot come that the rand a rading desk for
Deutsche Bank. During the years of the Dot come bubble he split his time between the
daring desk on Well Street and a reuroscience blat af bodserieller University. He there
developed the hypothesis that naturally produced steroid hormones shift riskpreferences systematically across the market cycle, exagerating the peaks and
troughs. Returning to Cambridge, he joined the Department of Physiology.
Development and Neuroscience and est about testing his hypothesis in a series of
studies set on a trading for it the Chy The results were published in the Proceedings
of the National Academy of Sciences.

09.45

5 Minute Transfer Break

09.50

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

09.50 - 10.20

Innovations In Equity Derivatives

Nicolas Grandchamp des Raux, Managing Director, Global Head of Quantitative Research, Equity Derivatives, HSBC Jean-Jacques Rabeyrin, Head Of Equity Derivatives Quants

Innovations In Fixed Income Derivatives

Piotr Karasinski, Senior Advisor, EUROPEAN BANK FOR RECONSTRUCTION AND

DEVELOPMENT Fabio Mercurio, Senior Product Manager, BLOOMBERG

09.50 - 10.20

Innovations In Credit Derivatives

Ziggy Jonsson, Partner, ARAM GLOBAL Massimo Morini, Head Of Credit Models & Coordinator Of Model Research, BANCA IMI

Morning Coffee & Networking Break

Stream A:

New Techniques For Pricing & **Hedging Equity Derivatives**

10.50

Stochastic Dividend Modelling For Derivatives Pricing

- Basics of modelling dividends Historic view on implied dividends A reference model: stochastic proportional dividends
- Advanced topics

Hans Buehler, Head Of EMEA Equities Quantitative Research

Jr WIUNGAN

Since 2008 Hars has been Head of EMEA Equities OR at JP Morgan in London.

Before this he was Head of Asia Equities OR for JP Morgan in Hong Kong. From 2001 to 2006 he was Head of Kolobal Equity Dervatives OR for Deutsche Bank in London.

He holds a Plb in Financial Mathematics from TU Berlin and was co-author of "Equity Hybrid Derivatives" in 2006.

11.30

Panel Discussion

TRADING EXOTIC EQUITY **DERIVATIVES**

How Has The Market For Exotic Equity Derivatives Changed & Where Are The New Opportunities?

Mike de Vegvar, Managing Director, Equity Derivatives Trading

UBS

Mike de Vegvar is a Managing Director at UBS responsible for trading exotic equity derivatives and structured products in London. Prior to joining UBS in 1997, Mike traded interest rate derivatives at Bankers Tixst and Frist Chicago. He holds ES and N degrees in Electrical Engineering from MIT and an MBA from the Wharton School of Business.

Arie Boleslawski, MD & Head Of Structured Equity, Trading Europe, SOCIÉTÉ GÉNÉRALE

Europe, SUCIE I & GENERALE

Arie s a Maraging Director at Societe Generale Corporate and Investment Benking and nurs 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 Benk, London and was before Global Head of Structured Credit Tading at SGCIB, New York having started his career on the Equity Index Arbitrage desk. In his current position, Arie is responsible of Cross Sease Solutions Tedning platform on Equity derivatives, Hybrids, Mutual Funds and Alternative Investment.

Optimal No-Arbitrage Bounds Under Calibration: A Stochastic Control Approach

- Link with optimal transport Optimal Skorokhod embedding problem
 Lookback options
 Options on variance

Pierre Henry- Labordère, Quantitative Analyst, SOCIÉTÉ GÉNÉRALE

SOCIETE GENERALE

Dr. Pierre Henry-Labordier works in the Global Markets Quantitative research team at Societic Genérale 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.

Audience Q&A & Industry Round Up 13.00 Lunch & Networking Breal



Exploring The Latest Techniques In Pricing Hedging & Trading Credit Derivatives

- Liquidity Modelling For Credit Default Swaps & Bonds
 Trading liquidity and CDS markets
 CDS and bond liquidity as an additional spread in reduced form CDS and bond liquidity as an adultionial spread in reaction models
 CDS liquidity in the context of the CAPM
 CDS liquidity ranking: bid offer, inactivity and dispersion
 Dependence between credit and liquidity
 Damiano Brigo, Gilbart Professor Of Mathematical Finance
 KINGS COLLEGE LONDON

14.40

Interactions As Sources Of Correlations & Risk In **Financial Networks**

- We expand models of credit contagion to include dependencies created through CDS contracts
 We show that hedging through CDS will not eliminate the tail-risk of very large losses in financial networks
 Higher losses must be expected with significant probabilities, if banks use hedging via CDS to expand their loan books

 Reimer Kühn, Reader In Mathematics



Reimer Kühn, Reader In Mathematics
KING'S COLLEGE LONDON
Riemer Kühn obtained a PhD in Theoretical Physics from Kiel University
in 1897. He held post-doctoral and lecturer postions at Heidelberg
University, and visiting professorships at Leuven, Bordeaux and
Göttingen. In 1993 was awarded the prestiguous Heisenberg fellowship, he is presently
Reader in Mathematics at King's College London. He has worked on a broad range of
problems in Statistical Medvanics of complex systems in physics, nandorm matrix
theory, biology, and economics, including recently the role of interactions in financial
risk. Details about his research, including recently appears and talks are available for
download from his web site http://www.mth.kcl.ac.uk/~kuehn

Forecasting & Trading Future Correlations

- Overview of dynamic correlation models
- Market DCC model: specification and empirical properties
 Applications to correlation/dispersion trading

 Arthur Berd, Head Of Macro Volatility Strategies



Arthur Berd, Head Of Macro Volatility Strategies

APTIAL FUND MANAGEMENT

Dr. Arthur Berd is responsible for directoral volatility strategies across

strategies at Bluedouratin Capital Space Capital

Strategies at Bluedouratin Capital Management, a credit heade fund in Pais. Previously he was the Head of Quantitative Martel

Strategies at Bluedouratin Capital Management, a credit heade fund in New York.

Earlier, Arthur was a Senior Vice President at Lehrana Brothers, and a Vice President at Golfarna Sachs Asser Management, a track In physics from Stratford

University, He is a member of the editoral board of the Journal of Credit Risk, and the

coordinator of the advisory committee for arXiv.org(n-fin, a global electronic research

repository for quantitative finance.

Artem Voronov, Indepent Research Scientist NEW YORK UNIVERSITY

16.00	Audience Q&A & Industry Round U
16.10	Afternoon Te
16.30	

Recent Developments In Pricing CDOs With Stochastic Recovery Rates

- Stochastic recovery rates in CDO market Forward recovery modelling
- JTD risk in stochastic recovery models
- Market calibration Sensitivity analysis

Martin Krekel, Senior Quantitative Analyst, UNICREDIT

Martin Kredes Type and Audentitative Analyst, UNICKEDIT What in Kredes Is senior quantitative analyst at UniCredit. Since 2005 he held various positions as quantitative analyst and built amongst others the credit pricing analysis of front and back office. Prof. thir sole, he was the head of the financial mathematics department at the Fraunthoff ITWM research institute. He holds a diplome and a Ph.D. in financial mathematics.

Exploring A New Methodology For Pricing CDO Options: Can Accuracy Best Be Served By Modelling A Range Of Prices?

- Practical examples of embedded CDO tranche options Derivation of valuation bounds from available market information Pricing range (instead of exact price) as an effective way to deal with incomplete market



with incomplete market

Comparison of valuation bounds from different filtrations

Numerical examples, hedging implications etc

Adong Li, Head Of Correlation &

FM Cradit Modelling BARCLAYS CAPITAL

Yadong Li, the bast of correlation and EM cradit modeling in Barclays
Capital. He earned a Ph.D. degree in Physics and a MS degree in

Capital. He earned a Ph.D. degree in Physics and a MS degree in

He has been a cardit derivative modeller since 2005. His recent research interests
include dynamic correlation modelling, stochastic recovery, cash CLO modelling, risk
management and regulatory requirements etc.

Audience Q&A & Industry Round Up

17.50

New Practical Methods For Improving Computational Efficiency

10.50

Auto-Differentiation In Practice

- Introduction: what is auto-differentiation? An illustrative example
- Application of auto-differentiation to calibration
- Application of auto-differentiation to sensitivities for Monte Carlo simulation
- Jürgen Hakala, Executive Director FG FINANCIAL PRODUCTS

 Jürgen works for EFG Financial Products, the derivatives house of EFG, where he is involved in modelling and financial engineering for all asset classes. His initial interest was foreign exchange, where he is co-editor of a textbook about FX derivatives. He is a regular speaker at a variety

Making The Calculation Of Risk Through Monte Carlo Methods More Efficient By Using Adjoint Algorithmic Differentiation

- Risk management with Monte Carlo
- A general paradigm for the fast calculation of risk: adjoint algorithmic differentiation (AAD)

 Real time risk management: examples, results and discussion



Luca Capriotti Director, Quantitative Strategies

Diffector, Quantitative Strategies

CREDIT SUSSE GROUP

Luca works in Quantitative Strategies (OS) in the New York city office.

It is currently focusing on modelling in the areas of Credit,

Control Risk Management of a Bank's own credit, Quanterparty

multissest control of the Control of Contro

12.10

Advances In GPU Computing For Derivative **Pricing Models**



Thomas Weber, SCICOMP
Thomas Weber is a founder of Weber & Pertners a financial services consultancy. Together with CANdiensten, Dr. Weber and his team provide technical support for Schriance in continental Europe. Previously, Dr. Weber was a member of the interest rate research team of Professor Bolinter that earned several international prizes for their

work on the valuation of interest rate options. He has worked at Deutsche Bank AG, where he was responsible for the development of risk methodology and the approval of pricing models

12 50 Audience Q&A & Industry Round Up 13.00 Lunch & Networking Break 14.00

Effective & Accurate Data Mining & Density **Estimation**

- Density estimation through normalizing flows in feature space Conditional density estimation
- Time series analysis, principal dynamical components
- Estimation of martingales

Esteban Tabak, Professor Of Mathematics

COurant Institute, where I'm a professor of mathematics

COURANT INSTITUTE, NV

I was born in Buenos Aires in 1963, earned an Engineering degree in hydraulics from the University of Buenos Aires and a Ph. D. in mathematics from MIT. Held a post-doctoral position in applied mathematics in Princitori, and have been for the last 17 years a NYU's data mining and fluid dynamics.

Efficient & Accurate Portfolio Risk Distributions Using Selective Re-

- Motivation
 - Generating portfolio risk distributions using re-valuation Examples: historic simulation, VaR, stress VaR
- When sensitivity approximations may not work

- When sensituity approximations may not work
- Approximations with error corrections
- Implementing a robust operative process
- Example: VaR
- Christian Fries, Head Of Model Development, Group Risk
Control, DZ BANK
Bio on pg. 5

Counterparty Credit Risk For Portfolios Of **Netting Sets**

- Coherent global market simulations Loss distributions and 3d risk visualization
- Credit correlation risk
 Achieving real time performance with single node technology Claudio Albanese Professor



16.00

Claudio Albanese, Professor
KINGS COLLEGE LONDON
Claudio Albanese holds 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 Toronia and Impenial College and
currently lectures at King's College London. Claudio's primaries
management and high performance computing.

Audience Q&A & Industry Round Up

16.10 Afternoon Tea Efficient Numerical PDF Methods To Solve

- Calibration & Pricing Problems In Local Stochastic Volatility Models Parametric and non-parametric local volatility specification,
- calibration methods



Examining The Latest Techniques For Hardware Acceleration

- Solid state disks
- Infiniband GPUs FPGAs
- Peter van Kleef, Partner

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Thursday 14 April 2011

The Latest Advances In FX & Interest Rate Derivatives Pricing, Hedging & Trading

10.50

What Drives Volatility Of Rates? Empirical Explorations In Developed & Emerging Markets

- The basic facts and definitions
- Description of historical data
- Historical basis point volatility and its regimes through last several decades Historical volatility in crisis periods
- Exploring implied volatility with the particular emphasis on the data



Conclusions

Piotr Karasinski, Senior Advisor, EUROPEAN BANK

POTENTIAL DEVELOPMENT FOR RECONSTRUCTION AND DEVELOPMENT

Plotr's career spans more then 25 years and covers all areas or quantitative finance. Educated in physics at Warsaw and Yale universities, he landed on Wall Street by shear accident. He has worked for a number of leading firms in New York and London and currently is the European Bank for Reconstruction and Development in London.

Pricing & Modelling CMS Spread Options

- CMS spreads
- CMS spread smiles Dependence modelling Copula based modelling
- SABR and multi SABR



Joerg Kienitz, Head Of Quantitative Analysis

DEUTSCHE POSTBANK AG

Joerg Keintz is the Head of Quantitative Analysis at Deutsche Posttank

AG. He is primarily involved in the development and implementation of
models for pricing structured products, derivatives and asset allocation.

He authored a number of quantitative finance papers and his book on Monte Carlo
frameworks has been published in 2009 with Wiley. He is member of the editorial
board of International Review of Aglinder Financial Issues and Economics. Joerg holds a
Ph.D. in stochastic analysis and probability theory.

12.10

Innovations In multi-FX Models



Peter Austing, Quantitative Analytics

BARCI AVS CAPITAL

wed from mathematical physics to finance in 2004. He has visic current role in the quantitative analytics team at Barclays or four years, and is particularly interested in correlation and modelling for foreign exchange derivatives.

12.50 Audience Q&A & Industry Round Up 13.00 Lunch & Networking Break 14.00

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 Enhancing the calibration with pricing data from exotics
- Issues surrounding computation of greeks
- Implementation within the BLOOMBERG PROFESSIONAL® service

e Tataru, Quantitative Finance Development BLOOMBERG

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

Successfully Implementing Stochastic Intrinsic **Currency Volatility Models**

- Using maximum entropy to parameterise the correlation matrix
- Techniques for obtaining stable solutions Extension to multiple less liquid currencies
- Using intrinsic currency volatility to trade FX correlation and covariance swaps ul Doust, Head Of Client Quantitative Analysis

Paul Doust has been working in the financial markets since 1987 in a variety of trading, structuring and quantitative roles. As a complex demathe 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 is now co-head of the Quantitative Client Research team at the Rayal Bank of Scotland, where the focus is the application of quantitative techniques to help clients generate alpha.

Double No-Touches: Market Consistent Pricing With LSV Models

- First generation exotics: continuous barriers

- Sensitivity to skew and smile
 Candidate models: LV, SV, LSV
 Tuning between local and stochastic volatility

lain Clark, Head Of FX & Commodities Quantitative Analysis

STANDARD BANK

Iain Clark is Head of FX and Commodities Quantitative Analysis at Standard Bank, London. He holds a Ph.D in applied mathematics a has been a front office quant for 12 years, having previously worked at JP Morgan, DID Boulon Head of the Commodities of the Commoditi

Exchange Option Pricing: A Practitioner's G 16.00	Audience Q&A & Industry Round
10.00	Addience CoxA & industry hound

16.10

Cash-Settled Swaptions: A Multi-Model Analysis

- Cash-settled swaption: liquid product in EUR/GBP
- The market formula
- Arbitrage with physical settled swaptions Price variation over models

• rivice Variation over models
Marc Henard, Head Of Interest Rate Modelling, DEXIA
Marc Henard coxes interest rate and inflation model development and
implementation for the front-office. Its main areas of expertise are term structure
modelling, derivatives priorig and hedging and risk management. He publishes on
those subjects in international journation on a regular basis. He previously held the
position of Head of Quartitative Research and Deputy Head of Treasury Risk at the DIS.
He worked as ja elucture and research scennist at Louent University, SISSA and Scuole

A Class Of Lévy Interest Rate Models Based On The Zeta Process



The Zeta Process

Lane Hughston, Chair In Mathematical Finance, IMPERIAL COLLEGE LONDON

Podesor Lane Phughston, MA, D Phil, is Chair in Mathematical Finance, Imperial College, Professor Hughston, His doctorate in mathematics was awarded by the University of Oxford, where he was a Rhodes Scholer. When the Professor Hughston His doctorate in mathematics was awarded by the University of Oxford, where he was a Rhodes Scholer, which was a Rhodes Scholer. When the Professor Hughston Held the Chair in Finance at Indiana, and the Chair in Finance and Indiana, which was a Rhodes Scholer, which was a Rhodes Scholer. However, I was a result of the Professor Hughston London, where he was responsible for managing the development of princip and hedging models for interest rate and foreign exchange deriventses. His research interests include a wide range of topics in mathematical france and its applications to financial for interest rates and foreign exchange, commodify, credit, equity, energy, and infaltand enterlies, the mathematical Scholer, the Earlies of the Professor Hughston belongs to the London Mathematical Scoler, the Earlies Professor Hughston belongs to the London Mathematical Scoler, the Sachelier Finance Scoler, the Hearlies of Hughston Hearlies and Professor Hughston and Hearlies of the Professor Hughston and Control of Homeston and Professor Hughston and Control of Homeston and Hearlies of Hughston and Hearlies of Hughston and Hearlies of Hughston Professor Hughston is Editories Chief of International Journal of Theoretical and Applied Finance, and acts as an associate editor for Mathematical Finance, Cambridge Finance, Proceedings of the Royal Scotety A, and the Hughston Mathematical Finance, Cambridge Finance, Proceedings of the Royal Scotety A, and the Hughston Mathematical Finance, Cambridge Finance, Cambridge Mathematical Finance, Cambridge Mathem

Audience Q&A & Industry Round Up

Enhanced Volatility Modelling & Trading

10.50

EXTENDED SESSION

Exploiting Discrepancies between Historical and Implied Values

- Playing historical against implied moments Trading the strategy or structuring a product Hedge efficacy: a review of popular structures

Ill conceived volatility, correlation and skew trades
 Common fallacies: leverage, jumps, calibration, hedgeability
Bruno Dupire, Head Of Quantitative Research, BLOOMBERG

Three Sources & Three Component Parts of the Universal Volatility Model

- The universal volatility model (UVM) and its applications to pricing of financial derivatives
- Three sources of UVM: the local volatility model, the stochastic volatility model and the jump-diffusion model. Three component parts of UVM: pricing of vanilla and first-
- generation exotic options, calibration of the model to the market and pricing of second-generation exotics The main analytical, semi-analytical, and numerical techniques needed for efficient implementation of UVM from a practical standpoint with a particular emphasis on the Lewis-Lipton formula and its applications

Alex Lipton, Co-Head Of Global Quantitative Group BANK OF AMERICA MERRILL LYNCH

BANK OF AMERICA MERRILL LYNCH & Visiting Professor, IMPERIAL COLLEGE. Prior to his current roles, Alex was Gobal Head of Credit Parkins and worked at Credit Assets and the washeringing Doron Chicago, he had showed at Credit Assets and the Assets and the College of the Assets and Enders and E

Audience Q&A & Industry Round Up

13.00 Lunch & Networking Break 14.00

Variance Swaps On Multivariate Time-Change



Afternoon Tea

Andrey Itkin, Director Of Financial Engineering HAP CAPITAL

HAP CAPITAL

Andrey Ithis is Director of Financial Engineering at HAP Capital. He is also an adjunct professor at NVU Poly and Rutgers University. He is molecular physics, and published a book and numerous papers in physics before he moved to finance. Prior to his current job Andrey cougled senior quantitative and managerial positions at CTC, Volant Trading, Amaranth, Bloomberg and Thomson Financial.

14.40

Asymptotics For Basket Options

- Review several methods for pricing spread options Review Avellaneda-Busca-Friz method to price basket options Discuss new approach combining heat kernel method with Dupire-
- like formulas to determine asymptotic expansions for prices and implied volatility of basket

 Relate implied volatility of basket to that of its components

 Peter Laurence, Professor Of Mathematics

Peter Laurence, Professor Of Mathematics UNIVERSITY OF ROME.

Peter Laurence is a Professor of Mathematics at the University of Rome, "La Sapienza" and a visiting scholar at the Current Institute. He completed he PHD in 1981 in applied mathematics at the University of Wisconsin. He has published widely in leading international Journals in a wide spectrum of areas in applied mathematics and of partial differential equations. In 1997 he became interested in mathematical finance and in 1999 on-euthrone with Matroz Aveliance a book on option princing. He has taught mathematical finance at the graduate level at NYU's Courant Institute, Columbia University and at Universities of Rome I and II. In 2007 2002 he was as Director in Standard and Poor's Risk Solutions group where he specialized in Portfolio Credit Risk.

Hedging Risks In Complex Markets

- Proliferation of derivatives and market stability
- Stabilizing risk measures for large portfolios Portfolio optimization in illiquid markets



THE ABDUS SALAM ICTP

Matteo Marsilli is currently a research scientist at the Abdus Salam ICTP,
more than 100 scientification in Ph.D. in Physics at SISSA. He has authored
important contributions to non-equilibrium statistical physics and to interdisciplinary
applications of statistical mechanics to complex systems, and to economics and
finance in particular. Coordinator of the programme on Environmental and Ecological
Economics (EEE) at ICTP and of several research grants. Scientific Director of Journal of Statistical Mechanics and editor of Journal of Cooromic Interaction and Coordination,
European Journal of Physics B and Physical Review E.

15.50 Audience Q&A & Industry Round Up

Latest Innovations In Portfolio Optimisation

16.30

Optimization for Optimisation

- Incorporating options into mean-variance frontiers
- Specifying investor views
- Handling nonlinearities, skewness and kurtosis Backtesting results

Mark Broadie, Carson Family Professor Of Business GRADUATE SCHOOL OF BUSINESS, COLUMBIA UNIVERSITY Bio on pg. 4

Strategies For Managing Diversification

- Consistency of definitions of diversification
- Principal components and the fine structure of diversification Entropy and the effective number of bets in arbitrary portfolios
- istics for diversification optimiza

Attilio Meucci, Chief Risk Officer, KEPOS CAPITAL Bio on pg. 4

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Exhibitors



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