MATHEMATICS and FINANCE – RIO 2007

Tentative Program and Topics

(for actual titles and abstracts please see:
http://www.impa.br/opencms/pt/eventos/extra/2007_financas/abstracts.html)

TBC := To be confirmed

Time	**Monday** 22/10	**Tuesday** 23/10	**Wednesday** 24/10	**Thursday** 25/10
08:30 10:00	B. Dupire (Bloomberg) *Local Volatility Models*	B. Dupire (Bloomberg) *Minicourse on Volatility Estimation*	M. Grasselli (McMaster) *Minicourse on Real Options*	J-P. Fouque (UCSB) *Minicourse on Stochastic Volatility Models*
10:00 10:15	**B R E A K**			
10:15 11:15	M. Avellaneda (NYU) *Large Deviations Applied to Financial Markets*	J-P. Fouque (UCSB) *Default Probabilities, Credit Derivatives, and Computational Issues*	P. Labordére (SGF) *Implied Volatility Asymptotic Behavior*	R. Lee (Chicago) *Hedging Variance Options*
11:15 11:30	**C O F F E E B R E A K**			
11:30 12:30	S. Jaimungal (Toronto) *Stochastic Volatility Models for Commodities*	G. Varga (FCE) *A Panel Study for the Brazilian (local) Term Structure Fitting*	T. R. Hurd (McMaster) *Portfolio Selection and Hedging*	B. Hofmann (Chemnitz) *Inverse Problems in Option Pricing*
12:30 14:00	**L U N C H**			
14:00 15:00	M. Grasselli (McMaster) *Real Options*	M. Grasselli (McMaster) *Minicourse on Real Options*	T. Pennanen (Helsinki) *Illiquid Market Pricing and Hedging*	C. Sagastizábal (IMPA and CEPEL) *Risk Measures*
15:00 15:30	**C O F F E E B R E A K**			
15:30 19:00	Special Session PETROBRAS and Financial Issues Invited and Contributed Presentations	Special Session Portfolio Optimization and Derivatives Invited and Contributed Presentations	Open Schedule for Discussion and Interaction	Special Session Risk Analysis Invited and Contributed Presentations
19:00 20:30	Poster Session Wine and Cheese	Poster Session Wine and Cheese	Open Schedule for Discussion and Interaction	Poster Session Wine and Cheese
20:30 22:00	Dinner		Conference Dinner	Dinner

Special Sessions (Partial List)

Special Session Financial Issues in Brazil and PETROBRAS: Monday 3:30PM – 7:00PM

Invited Lecturers and panelists:

Fernando Aiube (Petrobras) – Commodity-Price Models: *A Non-Gaussian Approach*

Fabio Iwabe (Bloomberg, São Paulo) – *Opções Exóticas e Notas Estruturadas*

José Siqueira (Banco Maxima) - *Brazilian Financial Stylized Facts*

Contributed Lectures:

Waldery Rodrigues Junior (IPEA and Min. da Fazenda) - *Multidimensional Robust Control, Uncertainty and Finance.*

Portfolio Optimization and Derivatives: Tuesday 3:30PM – 7:00 PM

Invited Lecturers and panelists:

Max O. de Souza (UFF) & Marcelo Nazareth (Netquant) – *Pricing with Random Transaction Costs.*

Rogerio Rosenfeld (IFT, São Paulo) - *Stochastic Volatility for the Hull-White model.*

Elsa Cortina (IAM, Buenos Aires) - *Modeling bonds with credit risk.*

Contributed Lectures:

Alberto Ohashi (UNICAMP) - *No-arbitrage and consistency in fractional HJM models.*

Special Session Risk Analysis: Thursday 3:30PM – 7:00 PM

Invited Lecturers and panelists:

Beatriz Mendes (UFRJ) - *Dynamic Copula Estimation in Risk.*

Fernanda Chaves (IAPUC) - *Underwriting Risk and Insurance.*

Andreas Hamel (Princeton) - *From scalar to set-valued risk measures.*

Contributed Lectures:

Gregory Emiel (IMPA and EDF) – *Modeling dependency for credit risk.*