Longevity 5:
Fifth International Longevity Risk and Capital Markets Solutions Conference

Program

- **Friday September 25, 2009**
  JP Morgan Chase Auditorium, 270 Park Avenue, New York  (intersection with 47th St)
- **Saturday September 26, 2009**
  St John's University, Manhattan Campus, 101 Murray Street
  (http://www.stjohns.edu/campuses/manhattan)

The presentations will shortly be available here:
http://www.longevity-risk.org/presentations.html

**Friday September 25, 2009**
JPMorgan Chase Auditorium

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<td>09:00 – 10:45</td>
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<td>09:00 - 09:15</td>
<td>Opening by Professor David Blake (chair)</td>
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<td>09:15 – 10:00</td>
<td>Longevity Risk and Capital Market Solutions: An Update</td>
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<td>09:15 – 10:00</td>
<td>Professor James Poterba, MIT and President of the National Bureau of Economic Research</td>
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<td>10:00 - 10:45</td>
<td>Why Governments Should Issue Longevity Bonds</td>
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<td>Longevity Extension: Dissecting Mortality Improvements over the Last Century</td>
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<td>Population Basis Risk and Hedge Effectiveness</td>
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16:30 – 17:00  |  Plenary Session 3

16:30-16:35  |  Opening by Professor Richard MacMinn (chair)

16:35 – 17:15  |  Professor Joe Coughlin, Age Lab, MIT
Retiring Retirement: Implications of Longer Worklife on Work, Pensions & Capital Markets

17:15 - 18:20  |  Panel debate
Propositions
1) The case for governments issuing longevity bonds is overwhelming
   a. Is it appropriate for the government to get involved in the longevity risk market?
   b. If the government did get involved, would it earn an adequate risk premium?
   c. Would a government longevity bond market ever develop sufficient liquidity to provide comprehensive mark-to-market pricing?

2) There will never be sufficient investors willing to assume longevity risk
   a. If this is not true, who do we expect investors to be?
   b. What would be their motivation for investing?
   c. How can we cope with the maturity mismatch between investor preference for short-maturity assets and the long-term nature of longevity risk?

3) The importance of longevity risk does not appear to be as widely recognized in the US as it should be
   a. Is this true? If so, what are the reasons?
   b. For how much longer can US pension plans, insurers and regulators ignore longevity risk?
   c. Do the IRS pension funding rules and IRS standard mortality tables inhibit the management of longevity risk?
   d. How will the US encourage more consumers to manage their own longevity risk?

   Tom Boardman Director, Director of Retirement Strategy and Innovation, Prudential (UK) plc (Chair)
   Guy Coughlan, Managing Director and Global Head of LifeMetrics and Pension Solutions, JPMorgan
   David Blake, Professor of Pension Economics and Director, Pensions Institute at Cass Business School London
   John Fitzpatrick, Pension Corporation
   Ari Jacobs, Principal, Retirement Solutions Leader, Hewitt Associates
   Martin Bird, Principal & Strategic Risk Consultant, Hewitt Associates

18:20 - 18:30  |  Closing by Professor Richard MacMinn

18:30 - 20:00  |  Reception
Saturday September 26, 2009
St John's University, Manhattan Campus

08:30 - 9:15  Registration
09:15 - 09:55  Workshops – Parallel Session 4

Workshop 4A
Frederik Weber
Mortality Indexed Annuities: Avoiding Unwanted Risk
(Discussant: Jack Yue)

Workshop 4B
Katja Hanewald
Stochastic Mortality, Macroeconomic Risks, and Life Insurer Solvency
(Discussant: Daniel Bauer)

Workshop 4C
Johnny Li
Measuring Basis Risk Involved in Longevity Hedges
(Discussant: Valeria D'Amato)

Workshop 4D
Ralph Stevens
Longevity Risk and Hedge Effects in Portfolios of Pension Products with Investment Risk
(Discussant: Matthias Boerger)

10:00 - 10:40  Workshops – Parallel Session 5

Workshop 5A
Jack Yue
Mortality Compression and Longevity Risk
(Discussant: Yijia Lin)

Workshop 5B
Ya-Wen Hwang
Modifying the Logistic Model for Mortality Forecasting the Application of Mortality-Linked Securities
(Discussant: Colin O'Hare)

Workshop 5C
Katja Hanewald
Mortality Modeling: Lee-Carter and the Macroeconomy
(Discussant: David Smith)

Workshop 5D
Daniel Bauer
Risk and Valuation of Mortality Contingent Catastrophe Bonds
(Discussant: Pat Brockett)

10:40 - 11:00  Break
Workshops – Parallel Session 6

Workshop 6A
Daniel Bauer
Modeling the Forward Surface of Mortality
(Discussant: Jack Yue)

Workshop 6B
Matthias Boerger
Deterministic Shock vs Stochastic Value-at-Risk – An analysis of the Solvency II Standard Model Approach to Longevity Risk
(Discussant: Katja Hanewald)

Workshop 6C
Raimond Maurer
(Discussant: Johnny Li)

Workshop 6D
Hua Chen
Pricing Mortality-Linked Securities with Dependent Lives under the Multivariate Threshold Life Table
(Discussant: Ralph Stevens)

Workshops – Parallel Session 7

Workshop 7A
David Blake
A Gravity Model of Mortality Rates for Two Populations
(Discussant: Jennifer Wang)

Workshop 7B
Valeria D’Amato
The Poisson Log-Bilinear Lee Carter Model: Efficient Bootstrap in Life Annuity Actuarial Analysis
(Discussant: Frederik Weber)

Workshop 7C
Yijia Lin
Mortality Regimes and Pricing
(Discussant: Daniel Bauer)
Workshop 8A
Jack Yue
Modeling Coherent Mortality Forecasts in Lee-Carter Framework
(Discussant: Raimond Maurer)

Workshop 8B
Jennifer Wang
A Comparison of Hedging Strategies against Longevity Risk under Alternative Risk Measures
(Discussant: Hua Chen)

Workshop 8C
Tzuling Lin
Consumption, Population and the Cross-Section of Stock Returns
(Discussant: Jingjing Chai)