

TWENTY-THIRD ANNUAL SYMPOSIUM

OF

THE SOCIETY FOR NONLINEAR DYNAMICS AND ECONOMETRICS

MARCH 19 – MARCH 20, 2015

BI NORWEGIAN BUSINESS SCHOOL Oslo, Norway

SPONSORED BY: Society for Nonlinear Dynamics and Econometrics BI Norwegian Business School Norges Bank

ORGANIZED BY:

Hilde C. Bjørnland, BI Norwegian Business School Francesco Ravazzolo, Norges Bank Kevin J. Lansing, Society for Nonlinear Dynamics and Econometrics



THURSDAY, March 19, 2015

0800 - 0830 Registration BI Norwegian Business School (Executive Education Center, 2nd floor)

0830 - 1010 Session 1: Empirical Macro: Monetary Policy and Uncertainty (Room: A2-035) Chair: Tatevik Sekhposyan; Texas A&M University

Uncertainty and Monetary Policy near the Zero Lower Bound Giovanni Caggiano; University of Padua Efrem Castelnuovo; University of Melbourne Giovanni Pellegrino; University of Verona

Monetary Policy Propagation and Uncertainty Norbert Metiu; Deutsche Bundesbank Sandra Eickmeier; Deutsche Bundesbank Esteban Prieto; Deutsche Bundesbank

Delayed Overshooting Puzzle in Structural Vector Autoregression Models Klodiana Istrefi; Banque de France Balazs Vonnak; Magyar Nemzeti Bank

Macroeconomic Uncertainty Indices Based on Nowcast and Forecast Error Distributions Barbara Rossi; ICREA-Univ. Pompeu Fabra, Barcelona GSE Tatevik Sekhposyan; Texas A&M University

0830 - 1010 Session 2: Finance: Asset Pricing (Room: A2-060) Chair: Daniele Bianchi; University of Warwick

Equity Return Predictability, Time Varying Volatility and Learning About the Permanence of Shocks Daniel Tortorice; Brandeis University

Option Pricing via Risk-Neutral Density Forecasting Stanislav Khrapov; New Economic School

Optimal Asset Allocation for Commodity Sovereign Wealth Funds Alfonso Irarrazabal; Norges Bank Lin Ma; Norwegian University of Life Sciences

A Dynamic Test of Conditional Factor Models Daniele Bianchi; University of Warwick



0830 - 1010 Session 3: Forecasting: Short Term Forecasting in Central Banks (Room: A2-070) Chair: Aleksandra Hałka; Narodowy Bank Polski

The Effect of Non-linearity Between Credit Conditions and Economic Activity on Density Forecasts Michal Franta; Czech National Bank

Combining Nowcasts for Canadian GDP Growth Rodrigo Sekkel; Bank of Canada

Forecasting Recessions in Real Time Knut Are Aastveit; Norges Bank Anne Sofie Jore; Norges Bank Francesco Ravazzolo; Norges Bank

Forecasting Process in Polish Central Bank Aleksandra Hałka; Narodowy Bank Polski

830 - 1010 Session 4: Time Series: Bayesian (Room: A2-075) Chair: Clément Marsilli; Banque de France

Model Uncertainty in Panel Vector Autoregressive Models Gary Koop; University of Strathclyde Dimitris Korobilis; University of Glasgow

Identification and Estimation of Non-Gaussian Structural Vector Autoregressions Markku Lanne; University of Helsinki Mika Meitz; University of Helsinki Pentti Saikkonen; University of Helsinki

Large Bayesian VARMAs Joshua Chan; Australian National University Eric Eisenstat; University of Bucharest Gary Koop; University of Strathclyde

A Mixed-Frequency Model with Stochastic Volatility Laurent Ferrara; Banque de France Massimiliano Marcellino; Bocconi University Clément Marsilli; Banque de France

1010 – 1040 Refreshment Break



1040 - 1220 Session 5: CAMP Special Session on Commodities and Macroeconomics I (Room: A2-035) Chair: Hilde Bjørnland; BI Norwegian Business School

Spend, Baby, Spend: Windfalls, Specialization and Misallocation Radek Stefanski; University of St Andrews

Oil Exports and the Reallocation Effects of Terms of Trade Fluctuations Drago Bergholt; Norges Bank Martin Seneca; Norges Bank

Technological Change in Resource Extraction and Endogenous Growth Martin Stuermer; Federal Reserve Bank of Dallas

Boom or Gloom? Examining the Dutch Disease in Two-Speed Economies Hilde Bjørnland; BI Norwegian Business School Leif Anders Thorsrud; BI Norwegian Business School

1040 - 1220Session 6: Empirical Macro: Labor Markets (Room: A2-060)Chair: Francesco Furlanetto; Norges Bank

- The Macroeconomic Effects of Goods and Labor Markets Deregulation Matteo Cacciatore; HEC Montreal Giuseppe Fiori; North Carolina State University
- Can Beveridge-Nelson Trend Cycle Decompositions be Useful for Policy Analysis? Gunes Kamber; Reserve Bank of New Zealand James Morley; University of New South Wales Benjamin Wong; Reserve Bank of New Zealand
- Beveridge Curve Shifts and Time-Varying Parameter VARs Thomas Lubik; Federal Reserve Bank of Richmond Christian Matthes; Federal Reserve Bank of Richmond Andrew Owens; Federal Reserve Bank of Richmond

Labor Supply Factors and Economic Fluctuations Claudia Foroni; Norges Bank Francesco Furlanetto; Norges Bank Antoine Lepetit; Paris 1 - Paris School of Economics

1040 - 1220 Session 7: Forecasting: Forecasting Exchange Rates and Commodity Prices (Room: A2-070) Chair: Pinho Ribeiro; University of Glasgow

Forecasting Commodity Prices with Noncausal Autoregressions Matthijs Lof; Aalto University School of Business Henri Nyberg; University of Helsinki



Commodity Futures Markets and Forecasting Commodity Currencies Francesco Ravazzolo; Norges Bank Tommy Sveen; BI Norwegian Business School Sepideh Zahiri; BI Norwegian Business School

Assessing the Predictive Ability of Sovereign Default Risk on Exchange Rates Claudia Foroni; Norges Bank Francesco Ravazzolo; Norges Bank Barbara Sadaba; Erasmus University - Tinbergen Institute

Exchange Rate Predictability in the Presence of Instabilities Pinho Ribeiro; University of Glasgow

1040 - 1220Session 8: Time Series: Testing (Room: A2-075)Chair: Seonhwi Lee; University of Exeter

- Likelihood Ratio Based Tests for Markov Regime Switching Zhongjun Qu; Boston University Fan Zhuo; Boston University
- Testing for Spurious Multivariate Long Memory Marie Holzhausen; Leibniz University of Hannover Christian Leschinski; Leibniz Universität Hannover Philipp Sibbertsen; Leibniz Universitaet Hannover

Testing for Flexible Nonlinear Trends with an Integrated or Stationary Noise Component Pierre Perron; Boston University Mototsugu Shintani; University of Tokyo Tomoyoshi Yabu; Keio University

Misspecification Tests for Realised GARCH models Seonhwi Lee; University of Exeter Andreea Halunga; University of Exeter

1220 – 1330 Lunch

1330 - 1440Plenary Session: Core Inflation (B1-030)James Stock, Harvard University
Chair: Francesco Ravazzolo; Norges Bank

1440 – 1510 Refreshment Break



1510 - 1650Session 10: Empirical Macro: Monetary Policy and Financial Stability
(Room: A2-035)
Chair: Fabio Milani; University of California, Irvine

Monetary Policy during Financial Crises: Is the Transmission Mechanism Impaired? Nils Jannsen; Institute for the World Economy Galina Potjagailo; University of Kiel Maik Wolters; Kiel Institute for the World Economy

Monetary Policy with Ambiguity Averse Agents Riccardo Maria Masolo; Bank of England Francesca Monti; Bank of England

Signals from the Government: Policy Uncertainty and the Transmission of Fiscal Shocks Giovanni Callegari: ECB

Learning, Unlearning, and Relearning Keynes Fabio Milani; University of California, Irvine

1510 - 1650 Session 11: Finance: Empirical Asset Pricing (Room: A2-060) Chair: Bruce Mizrach; Rutgers University

Have Investors Been Looking for Exposure to Specific Countries since the Global Financial Crisis? Insights from the Swiss Franc Bond Market Thomas Nitschka; Swiss National Bank

Higher-order Effects in the Standard Portfolio Choice Model Trino Niguez; University of Westminster Ivan Paya; Lancaster University Management School David Peel; Lancaster University Management School

Which Macronews Do Euro-Area Bond Markets React To? Michiel De Pooter; Federal Reserve Board of Governors

Quote Stuffing and Market Quality Cheng Gao; Rutgers University Bruce Mizrach; Rutgers University

1510 - 1650 Session 12: Macro Theory: Housing Credit and the Business Cycle I (Room: A2-070) Chair: Margarita Rubio; University of Nottingham

The Macro-Financial Implications of House Price-Indexed Mortgage Contracts Isaiah Hull; Sveriges Riksbank



Leaning Against the Credit Cycle

Paolo Gelain; Norges Bank Kevin Lansing; Federal Reserve Bank of San Francisco Gisle James Natvik; BI Norwegian Business School

Addressing Household Indebtedness: Monetary, Fiscal or Macroprudential Policy? Sami Alpanda; Bank of Canada Sarah Zubairy; Texas A&M University

Rented vs. Owner-Occupied Housing and Monetary Policy Margarita Rubio; University of Nottingham

1510 - 1650Session 13: CAMP Special Session on Commodities and Macroeconomics II
(Room: A2-075)
Chair: Hilde Bjørnland; BI Norwegian Business School

What Drives Commodity Returns? Market, Sector or Idiosyncratic Factors? Jun Ma; The University of Alabama Andrew Vivian; Loughborough University Mark Wohar; University of Nebraska-Omaha

- Oil News Shocks, OPEC Response and the Macroeconomy Knut Are Aastveit; Norges Bank Rabah Arezki; International Monetary Fund Akito Matsumoto; International Monetary Fund
- Regional Gas Price Dynamics Michael Owyang; Federal Reserve Bank of St Louis Elizabeth Vermann; Federal Reserve Bank of St. Louis
- Oil Price Shocks and the UK Economy, 1990-2005 Marco Lorusso; University of Glasgow Charles Nolan; University of Glasgow

1700 - 1840Session 14: Empirical Macro: Spending, Saving and Asset Prices (Room: A2-035)
Chair: Dennis Jansen; Texas A&M University

Did US Consumers Save for a Rainy Day Before the Great Recession? Andre Anundsen; Norges Bank Ragnar Nymoen; University of Oslo

- *Government Spending in a Volatile Economy at the Zero Lower Bound Harri Turunen; University of Cambridge*
- Asset Price Bubbles and Monetary Policy Michael Bradley; George Washington University Dennis Jansen; Texas A&M University



1700 - 1840 Session 15: Macro Theory: Housing, Credit and the Business Cycle II (Room: A2-060) Chair: Paolo Gelain; Norges Bank

Explaining the Boom-Bust Cycle in the U.S. Housing Market: A Reverse-Engineering Approach Paolo Gelain; Norges Bank Kevin Lansing; Federal Reserve Bank of San Francisco Gisle Natvik; BI Norwegian Business School

Changing Credit Limits, Changing Business Cycles Emiliano Santoro; University of Copenhagen Søren Ravn; University of Copenhagen Henrik Jensen; University of Copenhagen

Buying First or Selling First in Housing Markets Espen Moen; University of Oslo Plamen Nenov; Norwegian Business School (BI) Florian Sniekers; University of Amsterdam

- Monetary and Macroprudential Policy with Multi-Period Loans Michał Brzoza-Brzezina; National Bank of Poland Paolo Gelain; Norges Bank Marcin Kolasa; Narodowy Bank Polski and Warsaw School of Economics
- **1700 1840** Session 16: Time Series: Losses in Structural Models (Room: A2-070) Chair: Tatjana Dahlhaus; Bank of Canada
- Nonlinearities, Smoothing and Countercyclical Monetary Policy Laura Jackson; Bentley University Michael Owyang; Federal Reserve Bank of St Louis Daniel Soques; University of North Carolina at Chapel Hill
- Understanding the Deviations of the Taylor Rule: A New Methodology with an Application to Australia Joaquin Vespignani; University of Tasmania

Stationarity of Econometric Learning with Bounded Memory Sarunas Girdenas; University of Exeter Keqing Liu; University of Exeter

- Inflation Regimes and Monetary Policy Surprises in the EU Tatjana Dahlhaus; Bank of Canada
- **1900 Conference Reception** BI Norwegian Business School (Rooftop Terrace)



FRIDAY, March 20, 2015

0830 - 0900 Registration BI Norwegian Business School (Executive Education Center, 2nd floor)

0900 - 1040 Session 17: Empirical Macro: Macroeconomics, Volatility and Structural Change (Room: A2-075) Chair: Leif Anders Thorsrud; BI Norwegian Business School

Structural Change in an Empirical Macroeconomic Model for the U.S. Economy Tino Berger; University of Goettingen Gerdie Everaert; Ghent University Hauke Vierke; Ghent University

- Inference on Self-Exciting Jumps in Prices and Volatility using High Frequency Measures Worapree Maneesoonthorn; University of Melbourne Catherine Forbes; Monash University Gael Martin; Monash University
- The Asymmetric Effects of Oil Price Shocks on the Canadian Economy Luiggi Donayre; University of Minnesota - Duluth Neil Wilmot; University of Minnesota Duluth
- Commodity Prices, Fiscal Policy Design and Economic Activity Leif Anders Thorsrud; BI Norwegian Business School Hilde Bjørnland; BI Norwegian Business School
- **0900 1040** Session 18: Finance: Contagion (Room: A2-035) Chair: Francesco Ravazzolo; Norges Bank
- Debt and Financial Market Contagion Cody Yu-Ling Hsiao; The University of New South Wales James Morley; University of New South Wales
- Modeling Contagion and Systemic Risk Daniele Bianchi; University of Warwick Monica Billio; Università di Venezia Roberto Casarin; University Ca' Foscari of Venice
- Nonparametric Analysis of Connectedness and Systemic Risk: Worldwide History of the Last Decade Enrico Foscolo; Free University of Bozen-Bolzano

Spillover Effect to Bailout Expectation: An Empirical Study of Denmark Massimiliano Caporin; University of Padova
Gisle James Natvik; BI Norwegian Business School Francesco Ravazzolo; Norges Bank
Paolo Santucci de Magistris; Aarhus University and CREATES



0900 - 1040 Session 19: Forecasting: Topics in Forecasting (Room: A2-060) Chair: Eleonora Granziera; Bank of Canada

Using Low Frequency Information for Predicting High Frequency Variables Claudia Foroni; Norges Bank Pierre Guerin; Bank of Canada Massimiliano Marcellino; Bocconi University

Improving Real-Time Employment Estimates: A State-Space Signal Extraction Approach Tara Sinclair; George Washington University Matthew Zahn; The George Washington University

Evaluating the Efficiency of the FOMC's New Economic Projections Natsuki Arai; Johns Hopkins University

The Conditional Predictive Ability of Economic Variables Eleonora Granziera; Bank of Canada Tatevik Sekhposyan; Texas A&M University

0900 - 1040 Session 20: Macro Theory: Labour and Monetary Policy (Room: A2-070) Chair: Serdar Kabaca; Bank of Canada

Persistence and Volatility of Beveridge Cycles Florian Sniekers; University of Amsterdam

On GDP-Employment Decoupling in Germany: A Contribution to Explaining the Productivity Puzzle Sabine Klinger; Institute for Employment Research Enzo Weber; Institute for Employment Research

Fiscal Activism and the Zero Nominal Interest Rate Bound Sebastian Schmidt; European Central Bank

Labor Share Fluctuations in Emerging Markets: The Cost of Borrowing Serdar Kabaca; Bank of Canada

900 - 1040 Session 21: Time Series: Econometrics I (Room: A2-075) Chair: Hanno Reuvers; Maastricht University

Are the Shocks Obtained from SVAR Fundamental? Mehdi Hamidi Sahneh; Carlos III University

Serial Correlation Common Noncausal Features Alain Hecq; Maastricht University Lenard Lieb; Maastricht University Sean Telg; Maastricht University



- On Smooth Statistics of ARMAX-Residuals Steffen Grønneberg; BI norwegian business school Benjamin Holcblat; BI norwegian business school
- A Focused Information Criterion for Locally Misspecified Autoregressive Models Hanno Reuvers; Maastricht University Jan Lohmeyer; Maastricht University
- 1040 1110 Refreshment Break
- 1110 1250Session 22: Empirical Macro: RAstaNEWS Special Session on the Great
Moderation and the Great Recession (Room: A2-035)
Chair: Mark Bognanni; Federal Reserve Bank of Cleveland
- Great Moderation and Great Recession: From Plain Sailing to Stormy Seas? Lola Gadea; Applied Economics Ana Gómez-Loscos; Banco de España Gabriel Perez-Quiros; Banco de España
- Oil and Macroeconomic (In)stability Hilde Bjørnland; BI Norwegian Business School Vegard Larsen; BI Norwegian Business School
- It Ain't Over Till It's Over: Great 4 in The Way it All Began Fabio Bagliano; University of Turin Claudio Morana; Università di Milano Bicocca
- A Regime Switching Model for Nonlinear Policy Environments Mark Bognanni; Federal Reserve Bank of Cleveland Edward Herbst; Federal Reserve Board
- 1110 1250Session 23: Forecasting: Short Term Forecasting in Central Banks
(Room: A2-060)
Chair: Anthony Garratt; University of Warwick
- Do Central Bank Forecasts Matter for Professional Forecasters? Jacek Kotłowski; National Bank of Poland

Forecasting Inflation in Europe with Mixed Causal-Noncausal Models Alain Hecq; Maastricht University Lenard Lieb; Maastricht University Sean Telg; Maastricht University



A Financial Conditions Index Using Targeted Data Reduction Simon Price; Bank of England George Kapetanios; Queen Mary, University of London Garry Young; Bank of England

Comparing Computational Methods for Predictive Scores Anthony Garratt; University of Warwick Craig Thamotheram; Warwick University Leif Anders Thorsrud; BI Norwegian Business School Shaun Vahey; Warwick University

1110 - 1250Session 24: Macro Theory: Financial Integration, Taxes and Pensions
(Room: A2-070)
Chair: Chris Perks; Australian National University

Impact of Pension System Structure on International Financial Capital Allocation Olena Mykhaylova; University of Richmond James Staveley-O'Carroll; College of William and Mary

How Important are Insurance Markets for Common Shocks? Alfred Duncan; University of Glasgow Charles Nolan; University of Glasgow

Optimal Capital Controls and Real Exchange Rate Policies: A Pecuniary Externality Perspective Gianluca Benigno; London School of Economics Huigang Chen; MarketShare Partners Christopher Otrok; University of Missouri Alessandro Rebucci; The Johns Hopkins Carey Business School Eric Young; University of Virginia

Kinked Demand and Durable Goods: Can Time Varying Markups Solve the Durabe Good Co-movement Puzzle?

Chris Perks; Australian National University

1110 - 1250Session 25: RAstaNEWS Special Session on Multivariate Time Series Modeling
(Room: A2-075)
Chair: Christian Conrad; University of Heidelberg

Models of Financial Return with Time-Varying Zero-Probability Genaro Sucarrat; BI Norwegian Business School Geir Bjønnes; Norwegian School of Management



Fitting Vast Dimensional Time-Varying Covariance Models Robert Engle; New York University Cavit Pakel; Bilkent University Neil Shephard; Harvard University Kevin Sheppard; University of Oxford

Long Memory through Cross-section Dependence and Marginalization Guillaume Chevillon; ESSEC Business School Alain Hecq; Maastricht University Sebastien Laurent; Aix-Marseille University

Impulse Response Inference From Multivariate Fractionally Integrated Processes with Application to the Fisher Effect Richard Baillie; QMUL and Michigan State University George Kapetanios; Queen Mary, University of London

Fotis Papailias; Queen's University Belfast

Misspecification Testing in GARCH-MIDAS Models Christian Conrad; University of Heidelberg Melanie Schienle; Leibniz University Hannover

- 1250 1400 Lunch
- 1400 1510Plenary Session: Unemployment and the Businss Cycle (Room B1-030)Martin Eichenbaum, Northwestern University
Chair: Hilde Bjørnland; BI Norwegian Business School
- 1510 1530 Refreshment Break
- **1530 1710** Session 27: Empirical Macro: Business Cycles and the Labour Market (Room: A2-035) Chair: Joris Wauters; Ghent University

Business Cycle Asymmetries and Slow Recoveries in Labor Markets Irina Panovska; Lehigh University

- The Unemployment Policies during the Great Recession and over the Business Cycle Ji Zhang; Tsinghua University
- The European Union and Economic Growth: The Average Treatment Effect of Adopting the Euro Huseyin Aytug; Central Bank of Turkey



Wage Indexation and the Monetary Policy Regime Selien De Schryder; Ghent University Gert Peersman; Ghent University Joris Wauters; Ghent University

1530 - 1710Session 28: Empirical Macro: Macroeconomic Dynamics (Room: A2-060)Chair: Menelaos Karanasos; Brunel University

Trilemma, not Dilemma: Financial Globalisation and Monetary Policy Effectiveness Georgios Georgiadis; ECB

The Credibility of Hong Kong's Currency Board System: Looking Through the Prism of MS-VAR Models with Time-Varying Transition Probabilities Boris Blagov; University of Hamburg Michael Funke; University of Hamburg

Computing Markov-Perfect Optimal Policies in Business-Cycle Models Richard Dennis; University of Glasgow Tatiana Kirsanova; University of Glasgow

Modelling Time Varying Volatility Spillovers and Conditional Correlations Across Commodity Metal Future

Menelaos Karanasos; Brunel University

1530 - 1710Session 29: Finance: Asset Pricing (Room: A2-070)Chair:Sigurd Mølster Galaasen; Norges Bank

Adverse Selection on Re-sale Markets for Securitized Assets Martin Kuncl; Bank of Canada

Periodic and Stochastically Deflating Rational Bubbles in Stock Markets: Evidence Using Sequential Monte Carlo Methods Benedikt Rotermann; University of Münster Bernd Wilfling; Westfälische Wilhelms-Universität Münster

Learning in International Markets and a Rational Expectation Approach to the Contagion Puzzle Steven Ho; Kenan-Flagler Business School UNC

Stress Testing in a Structural Model of Bank Behavior Dean Corbae; University of Wisconsin Pablo D'Erasmo; University of Maryland / FRB Philadelphia Sigurd Mølster Galaasen; Norges Bank Alfonso Irarrazabal; Norges Bank Thomas Siemsen; Ludwig-Maximilians-University Munich



1530 - 1710Session 30: Time Series: Nonlinear Models (Room: A2-075)
Chair: Sunoong Hwang; KIET (Korea Institute for Industrial Economics and Trade)

Heads I Win, Tails You Lose: Asymmetry in Aggregate Exchange Rate Pass-Through Raphael Brun; Birkbeck College Ana-Maria Fuertes; Cass Business School, City University London Matthew Greenwood-Nimmo; University of Melbourne

Nonlinear Dynamic Interrelationships Between Real Activity and Stock Returns Markku Lanne; University of Helsinki Henri Nyberg; University of Helsinki

Time-Varying Excess Sensitivity Gerdie Everaert; Ghent University Lorenzo Pozzi; Erasmus University Rotterdam Ruben Schoonackers; National Bank of Begium

Are Troughs Sharper than Peaks in Industry Cycles? Sunoong Hwang; KIET (Korea Institute for Industrial Economics and Trade)

1530 - 1710 Session 31: Forecasting: DSGE Estimation and Evaluation (Room: A2-059)

Chair: Ana Beatriz Galvao; University of Warwick

Forecasting in a DSGE Model with Banking Intermediation: Evidence from the US Roberta Cardani; Università degli Studi Milano-Bicocca Alessia Paccagnini; Università degli Studi di Milano-Bicocca Stefania Villa; University of Foggia and KU Leuven

Estimating DSGE Models with Forward Guidance Mariano Kulish; University of New South Wales James Morley; University of New South Wales Tim Robinson; University of Melbourne

Consistent Variance of the Laplace Type Estimators: Application to DSGE Models Anna Kormilitsina; Southern Methodist University Denis Nekipelov; University of Virginia

Data Revisions and DSGE models Ana Beatriz Galvao; University of Warwick

1710 - 1730 Concluding Remarks



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THURSDAY, MARCH 19

- 0800 0830 Registration Executive Education Center, 2nd Floor
- 0830 1010 Sessions 1 4
- 1010 1040 Refreshment Break
- 1040 1220 Sessions 5 8
- 1220 1330 Lunch
- 1330 1440 Plenary Session, "Core Inflation" James Stock, Harvard University Room: B1-030
- 1440 1510 Refreshment Break
- 1510 1650 Sessions 10 13
- 1700 1840 Sessions 14 16
- 1900 Conference Reception BI Norwegian Business School Terrace

FRIDAY, MARCH 20

- 0830 0900 Registration Executive Education Center, 2nd Floor
- 0900 1040 Sessions 17 21
- 1040 1110 Refreshment Break
- 1110 1250 Sessions 22 25
- 1250 1400 Lunch
- 1400 1510 Plenary Session, "Unemployment and the Business Cycle" Martin Eichenbaum, Northwestern University Room B1-030
- 1510 1530 Refreshment Break
- 1530 1710 Sessions 27 31
- 1710 1730 Concluding Remarks