

PRELIMINARY PROGRAM FOR
6TH NBER CONFERENCE ON ECONOMICS
AND CONTROL

New Haven, Conn., May 25-27, 1977

Wednesday, May 25 10:30-12:00

Davies Hall *Macroeconomics I*

Chairman: David Kendrick

1. Michael Athans (MIT), E. Kuh & R. Pindyck "Some New Results on the Optimal Control of Macroeconometric Models"
2. Edison Tse (Stanford) "Macro-Modelling and Policy Assessment"
3. Gregory Chow (Princeton) "Comparison of Econometric Models by Optimal Control Techniques"

Mason Hall *Trade I*

Chairman: Masanao Aoki

1. J. Chipman (Minnesota) "Optimal Aggregation in International Trade Models: Application to West Germany, 1958-1975."
2. Masanao Aoki (UCLA) & M. Canzoneri (Illinois) "Macroeconomic Policy in a Dynamic Two Country Model"
3. Thorvaldur Gylfason (IMF) "Endogenous Inflation and the Phillips Curve"

2:00-3:30

Davies Hall *Computational Algorithms I*

Chairman: Fred Norman

1. Carl Palash (FRB) "An Analysis of the Application of Almon Constraints to Economic Control"
2. Pierre Nepomiaschchy & A. Ravelli (IRIA) "Comparison of Resolution and Optimization Techniques"
3. G. Chow "Chow's Linear-Quadratic Algorithm & the Michigan Model"
4. Ray Fair (Yale) "Some Results"

Mason Hall *Microeconomics I*
Chairman: Maurice Wilkinson

1. Stanley Gershwin & D. Castanon (MIT) "The Deterministic Dynamic Optimal Behavior of a Firm"
2. Richard Gilbert (Berkeley) "Production Flexibility and the Effects of Stabilization Policies"
3. D. Hanson (MIT) "Efficient Transitions from a Resource to a Substitute Technology in a Macroeconomic Growth Context"

Coffee 3:30-4:00
 4:00-5:30

Davies Hall *Macroeconomics II*
Chairman: Franklin Shupp

1. Ray Fair (Yale) "The Sensitivity of Fiscal Policy Effects to Assumptions about the Behavior of the Federal Reserve"
2. David Kendrick (Texas) "Adaptive Control of Macroeconomic Models with Measurement Error"
3. Kent Wall (SCI), Y. Bar-Shalom, & D. Kendrick "Adaptive Control of Macroeconomic Models with Correlated Measurement Errors"

Mason Hall *Estimation*
Chairman: Edison Tse

1. Cheng Hsiao (NBER, Cambridge) "Money and Income Causality Detection"
2. R. Engle (LaJolla) "Estimating Structural Models of Seasonality"
3. P. Caines (Harvard) & S. Sethi (U. of Toronto) "A Multivariate Econometric Analysis of Supermarket Sales"

Thursday, May 26 9-10:30

Davies Hall *Trade II*
Chairman: Carl Palash

1. Russell Boyer (U. of Western Ontario) "Dirty Floating and Partial Sterilization"

2. M. Aoki (UCLA) "How Robust Are the Impact Money Multipliers in A Small Open Economy"
3. Jay Levin (Wayne State) "Decentralization Versus Coordination Of Monetary Policies Between the U.S. and the Rest of the World Under Flexible Exchange Rates"

Mason Hall *Stochastic Control*
Chairman:

1. J. K. Sengupta (Santa Barbara) "Evaluation of Linearized Stabilization Policies under a Nonlinear and Stochastic Framework"
2. George Leitmann (Berkeley) & Henry Wan, Jr. (Cornell) "Stabilization Policy for an Economy with Certain Unknown and Unknowable Characteristics"
3. R. S. Holbrook & E. P. Howrey (Michigan) "A Comparison of the Chow and Theil Optimization Procedures in the Presence of Parameter Uncertainty"
4. Rick Ashley (La Jolla) "Postponed Linear Approximations in Stochastic Optimal Control"

Coffee **10:30-11:00**

Davies Hall **11:00-12:30**

Assessment & Critique of Control in Economics

Chairmen: D. Kendrick and Edison Tse

Roundtable discussion with M. Athans, R. Fair, D. Kendrick, D. Newlon and E. Tse.

2-3:30

Davies Hall *Adaptive Control*
Chairman: Gregory Chow

1. M. Athans, R. Ku, S. Gershwin & D. Castanon (MIT) "Implications of the Uncertainty Threshold Principle for Economic Systems"
2. Yaakov Bar-Shalom (U. of Connecticut) "Effect of Parameter Uncertainty vs. Additive Disturbances in the Control of Macroeconomic Models"

3. C. R. Johnson, Jr. & E. Tse (Standord) "Adaptive Control without Identification"

Mason Hall *Macroeconomics III*
Chairman: Götz Uebe

1. Franklin Shupp (Illinois, Urbana) "Monetary and Fiscal Policy and the Government Budget Constraints"
2. Tom Cooley (Santa Barbara) and Carol Corrado (FRB) "The Costs of Controlling Cyclical Instability in Housing"
3. Roger Craine & A. Havenner (FRB) "The Optimal Monetary Instrument: An Empirical Assessment"
4. Ken Davis "Crowding Out: Its Importance and the Federal Reserve's Optimal Response to Large Budget Deficits"

Coffee 3:30-4:00
 4-5:30

Davies Hall *Microeconomics II*

1. E. Arzac & M. Wilkinson (Columbia) "Optimal Stabilization of a Quarterly Econometric Model of the U.S. Livestock and Feed Grain Markets"
2. James Sweeney (Standord) "The Demand for Gasoline: A Vintage Capital Model"
3. D. Yaron (Chicago) "A Model for the Analysis of the Seasonal Aspects of Water Quality Control in an Urban Setting"

Mason Hall *Computational Algorithms II*
Chairman: Fred Norman

1. Arne Drud (Technical University of Denmark) "Computational Experience with an Optimization Code Based on Sparse-Matrix Techniques and Reduced Gradients"
2. Leon Lasdon & J. Mantell (Case Western Reserve) "Optimal Control of Large Econometric Models"
3. Richard Bird (Queen's University) "CRUNCHER I: A Preliminary Report"
4. Round table discussion

Friday, May 27 9-10:30

Davies Hall *Controllability, Large Scale & Microproblems*
Chairman: Bob Brito

1. A. Norman (Texas) & W. Jung "The Dependent Target Test for Controllability"
2. H. Myoken (Nagoya City U., Japan) "Stabilization Policies of Large Scale Econometric Models under Hierarchical Decentralized Control and Information Structures"
3. Götz Uebe (Technical University of München, Germany) "An Impossibility Theorem of Stabilization"
4. Edward Stohr (Northwestern) "Optimal State Estimation Procedures and the Design of Management Information Systems"

Mason Hall *Macroeconomics IV*
Chairman: Dan Newlon

1. Don Schlagenhauf (Arizona) & F. Shupp "Wage and Price Controls in a Flexprice-Fixprice Model"
2. Sheldon Chang & H. O. Stekler (S.U.N.Y., Stony Brook) "Optimal Control: When Not to Control"
3. Carl-Louis Sandblom (Concordia University) "Simulation Results on the Evaluation of Economic Policies"
4. Nicolas Mathieu (Economic Council of Canada) "Trade-offs Between Target Achievements in an Open Economy: AN Application to the Canadian System"

Coffee **10:30-11:00**
 11:00-12:30

Davies Hall *Equilibrium & Stability*
Chairman: Rick Ashley

1. D. Brito (Ohio State) & J. D. Richardson (Wisconsin at Madison) "Some Disequilibrium Dynamics of Exchange-Rate Change: A German Application"
2. William Brock & M. Magill (Chicago) "Stability Methods in Dynamic Economics"

Mason Hall *Expectations & Criterion Functions*
Chairman: Roger Craine

1. Lucas Papademos (Columbia) "Welfare Criteria, Uncertain Supply Shocks and Optimal Employment-Inflation Policies"
2. Malcolm Galatin (C.U.N.Y.) "The Effects of Forecasting on Economic Behavior"
3. Peter Pauly & Günther Bock v. Wülfingen (Univer. of Hamburg) "An Optimization Approach in Multiple Target Problems Using Inequality Restrictions - The Case Against Quadratic Criterion Functions"