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**Joined the Bank Staff**            1981

**Education**                            Ph.D. Economics, University of Missouri–Columbia, 1976  
M.S. Economics, Arizona State University, 1969  
B.A. Economics, Parsons College, 1967

**Areas of Interest**                Monetary Theory and Policy, Macroeconomics and Econometrics

### **Articles Published in Peer-Reviewed Journals**

“The Phillips Curve and US Monetary Policy: What the FOMC Transcripts Tell Us” with Ellen E. Meade, FORTHCOMING: *Oxford Economic Papers*.

“The Expectation Hypothesis of the Term Structure of Very Short-Term Rates: Statistical Tests and Economic Value” with Pasquale Della Corte and Lucio Sarno, *Journal of Financial Economics*, July 2008, 89(1), pp. 158-74.

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“The Effect of Unanticipated Money on the Money and Foreign Exchange Markets,” *Journal of International Money and Finance*, December 1989, 8(4), pp. 573-87.

“On the Informational Content of Spot and Forward Exchange Rates,” with K. Alec Chrystal, *Journal of International Money and Finance*, September 1988, 7(3), pp. 321-30.

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“Price Expectations and the Demand for Money: A Comment,” with R.W. Hafer, *The Review of Economics and Statistics*, August 1986, 68(3), pp. 539-42.

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“A Note on Almon’s Endpoint Constraints,” with Dallas S. Batten, *Communications in Statistics: Simulation and Computation*, 1985, pp. 683-90.

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“The Long-Run and Short-Run Demand for Money: Additional Evidence,” *Journal of Macroeconomics*, Summer 1982, 4(3), pp. 325-38.

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- “Tests of the Market’s Reaction to Federal Funds Rate Target Changes,” Federal Reserve Bank of St. Louis *Review*, November/December 1998, 80(6), pp. 25-36.
- “Using the Federal Funds Futures Market to Predict Federal Reserve Actions,” with John C. Robertson, Federal Reserve Bank of St. Louis *Review*, November/December 1997, 79(6), pp. 45-53.
- “Does the Fed’s New Policy of Immediate Decisions Affect the Market?” Federal Reserve Bank of St. Louis *Review*, November/December 1996, 78(6), pp. 77-88.
- “The Costs and Benefits of Price Stability: An Assessment of Howitt’s Rule,” Federal Reserve Bank of St. Louis *Review*, March/April 1996, 78(2), pp. 23-38.
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- “Financial Innovation and Deregulation and the ‘Credit View’ of Monetary Policy,” Federal Reserve Bank of St. Louis *Review*, January/February 1994, 76(1), pp. 31-49.
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- “Targeting M2: The Issue of Monetary Control,” Federal Reserve Bank of St. Louis *Review*, July/August 1992, 74(4), pp. 23-35.
- “Alternative Measures of the Monetary Base: What Are the Differences and Are They Important?” with Michelle R. Garfinkel, Federal Reserve Bank of St. Louis *Review*, November/December 1991, 73(6), pp. 19-35.
- “The Multiplier Approach to the Money Supply Process: A Precautionary Note,” with Michelle R. Garfinkel, Federal Reserve Bank of St. Louis *Review*, July/August 1991, 73(4), pp. 47-64.
- “A Primer on Cointegration with an Application to Money and Income,” with David A. Dickey and Dennis W. Jansen, Federal Reserve Bank of St. Louis *Review*, March/April 1991, 73(4), pp. 58-78. Reprinted in B. Bhaskara Rao, ed., *Cointegration for the Applied Economist*, St. Martin’s Press, 1994; and Omar F. Hamouda, ed., *Foundations of Probability, Econometrics and Economic Games*, Edward Elgar, 1996.

- “Do Government Deficits Matter?” Federal Reserve Bank of St. Louis *Review*, September/October 1990, 72(5), pp. 25-39.
- “The Link Between M1 and the Monetary Base in the 1980s,” with Michelle R. Garfinkel, Federal Reserve Bank of St. Louis *Review*, September/October 1989, 71(5), pp. 35-52.
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- “The Macroeconomic Effects of Deficit Spending: A Review,” with K. Alec Chrystal, Federal Reserve Bank of St. Louis *Review*, November/December 1988, 70(6), pp. 48-60.
- “The Effect of Monetary Policy on Short-Term Interest Rates,” Federal Reserve Bank of St. Louis *Review*, May/June 1988, 70(4), pp. 53-72.
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- “Solving the 1980’s Velocity Puzzle: A Progress Report,” with Courtenay C. Stone, Federal Reserve Bank of St. Louis *Review*, August/September 1987, 69(7), pp. 5-23.
- “The Monetary-Fiscal Policy Debate and the Andersen-Jordan Equation,” with Dallas S. Batten, Federal Reserve Bank of St. Louis *Review*, October 1986, 68(8), pp. 9-17.
- “The Discount Rate and Market Interest Rates: Theory and Evidence,” Federal Reserve Bank of St. Louis *Review*, August/September 1986, 68(7), pp. 5-21.
- “The Cost of Checkable Deposits in the United States,” with Kenneth C. Carraro, Federal Reserve Bank of St. Louis *Review*, April 1986, 68(4), pp. 19-27.
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- “Money Demand Dynamics: Some New Evidence,” Federal Reserve Bank of St. Louis *Review*, March 1985, 67(3), pp. 14-23.
- “The Discount Rate, Interest Rates and Foreign Exchange Rates: An Analysis with Daily Data,” with Dallas S. Batten, Federal Reserve Bank of St. Louis *Review*, February 1985, 67(2), pp. 22-30.
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“An Early Look at the Volatility of Money and Interest Rates Under CRR,” Federal Reserve Bank of St. Louis *Review*, October 1984, 66(8), pp. 26-32.

“How Robust Are the Policy Conclusions of the St. Louis Equation: Some Further Evidence,” with Dallas S. Batten, Federal Reserve Bank of St. Louis *Review*, June/July 1984, 66(6), pp. 26-32.

“Why Does Velocity Matter?” Federal Reserve Bank of St. Louis *Review*, December 1983, 65(10), pp. 5-13.

“Lagged and Contemporaneous Reserve Accounting: An Alternative View,” Federal Reserve Bank of St. Louis *Review*, November 1983, 65(9), pp. 26-33.

“M1 or M2: Which is the Better Monetary Target,” with Dallas S. Batten, Federal Reserve Bank of St. Louis *Review*, June/July 1983, 65(6), pp. 36-42.

“The FOMC in 1982: De-emphasizing M1,” Federal Reserve Bank of St. Louis *Review*, June/July 1983, 65(6), pp. 26-35.

“Polynomial Distributed Lags and the Estimation of the St. Louis Equation,” with Dallas S. Batten, Federal Reserve Bank of St. Louis *Review*, April 1983, 65(4), pp. 13-25.

“Simple Analytics of the Money Supply Process and Monetary Control,” Federal Reserve Bank of St. Louis *Review*, October 1982, 64(8), pp. 23-39.

“The Discount Rate and Market Interest Rates: What’s the Connection?” Federal Reserve Bank of St. Louis *Review*, June/July 1982, 64(6), pp. 3-14.

“The FOMC in 1981: Monetary Control in a Changing Financial Environment,” Federal Reserve Bank of St. Louis *Review*, April 1982, 64(4), pp. 3-22.

## **Working Papers**

“The Effectiveness of Unconventional Monetary Policy: The Term Auction Facility,” Federal Reserve Bank of St. Louis Working Paper 2010-044A, October 2010.

“Out-of-sample Predictions of Bond Excess Returns and Forward Rates: An Asset-Allocation Perspective” with Giorgio Valente, Federal Reserve Bank of St. Louis Working Paper 2010-034A, October 2010.

“Predictions of Short-Term Rates and the Expectations Hypothesis” with Massimo Guidolin, Federal Reserve Bank of St. Louis Working Paper 2010-013B, May 2010, Revised January 2011.

“The Identification of the Response of Interest Rates to Monetary Policy Actions Using Market-Based Measures of Monetary Policy Shocks,” Federal Reserve Bank of St. Louis Working Paper 2009-037A, August 2009.

“Revisiting the Predictability of Bond Risk Premia” with Giorgio Valente, Federal Reserve Bank of St. Louis Working Paper 2009-009A, March 2009.

“Resolving the Unbiasedness Puzzle in the Foreign Exchange Market,” Federal Reserve Bank of St. Louis Working Paper 2009-002A, January 2009.

“Monetary Policy: Why Money Matters and Interest Rates Don’t,” Federal Reserve Bank of St. Louis Working Paper 2008-011A, May 2008.

“The Unusual Behavior of the Federal Funds Rate and Treasury Yields: A Conundrum or an Instance of Goodhart’s Law?” Federal Reserve Bank of St. Louis Working Paper 2007-039D, September 2007, Revised August 2010.

“Resolving the Unbiasedness and Forward Premium Puzzle,” Federal Reserve Bank of St. Louis Working Paper 2007-014A, March 2007.

“The Daily and Policy-Relevant Liquidity Effects,” Federal Reserve Bank of St. Louis Working Paper 2007-001B, January 2007, Revised November 2007.

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“A New Federal Funds Rate Target Series: September 27, 1982 – December 31, 1993,” Federal Reserve Bank of St. Louis Working Paper 2005-032A, May 2005.

“A Dynamic Factor Analysis of the Response of U. S. Interest Rates to News,” with Marco Lippi, Federal Reserve Bank of St. Louis Working Paper 2004-013A, July 2004.

“Predictions of Short-Term Rates and the Expectations Hypothesis of the Term Structure of Interest Rates,” Federal Reserve Bank of St. Louis Working Paper 2004-010A, June 2004.

“Do Bank Loan Rates Exhibit a Countercyclical Mark-up?” with Michael J. Dueker, Federal Reserve Bank of St. Louis Working Paper 1997-004A.

“Identifying the Liquidity Effect: The Case of Nonborrowed Reserves,” Federal Reserve Bank of St. Louis Working Paper 1996-002A.

“Discount Rate Policies of Five Federal Reserve Chairmen,” Federal Reserve Bank of St. Louis Working Paper 1996-001A.

“Asymmetry in the Prime Rate and Firms’ Preference for Internal Finance,” with Michael J. Dueker, Federal Reserve Bank of St. Louis Working Paper 1994-017A.

### **Other Publications and Edited Volumes**

“How Did We Get to Inflation Targeting and Where Do We Go Now? A Perspective From the U.S. Experience,” in David Cobham, Øyvind Eitrheim, Stefan Gerlach and Jan Qvigstad, eds., *Twenty Years of Inflation Targeting: Lessons Learned and Future Prospects*, Cambridge University Press, 2010, pp. 90-110.

“Comments on Federal Reserve Operating Procedures and Institutional Change,” in Marvin S. Goodfriend and David H. Small, eds., *Operating Procedures and the Conduct of Monetary Policy Conference Proceedings*, Financial and Economics Discussion Series, Working Studies No.1 Part 2, March 1993.

“Financial Innovation Causes and Consequences,” with Courtenay C. Stone, in Kevin Dowd and Mervyn K. Lewis, eds., *Current Issues in Monetary Analysis and Policy*, MacMillan Publishers, 1991.

### **Editorial Positions in Journals**

Associate Editor, *Journal of Banking and Finance*

Associate Editor, *Journal of International Financial Markets, Institutions and Money*

Associate Editor, *Applied Economics Letters*

Associate Editor, *Applied Financial Economics*