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Experience.

- 1994 / Pres President of Logistic Research & Trading Co.
Saint Joseph, MI, 49085
Logistic is a commodity trading firm.
- 2003 / 2004 Visiting Assistant Professor in the School of Public and Environmental
Affairs, Indiana University South Bend, South Bend, IN.
Course: Public Finance, Health Economics, Managerial Economics.
- 1998 Lecturer, Department of Mathematics,
University of Chicago, Chicago, IL, 60637
Lecturer in the graduate program in financial mathematics. I have
continued to give occasional full day workshops in this program.
- 1996 / 1998 Senior Lecturer, Stuart School of Business
Illinois Institute of Technology, Chicago, IL
I taught in the graduate professional program called Financial Markets &
Trading. Courses: Managerial Economics, Quantitative Trading,
Econometrics
- 1987 / 1994 Portfolio Manager and Principal, Harris Investment Management, Inc.
Harris Bank and Trust Co., Chicago, IL
I was the head of government trading, utilizing the Harris Interest Rate
Model that I developed. I also built the investment business focusing on
hospital funds, and lectured on the subject of hospital finance to
investment industry groups.
- 1982 / 1987 Securities Analyst,
American National Bank and Trust Co., Chicago, IL. Coverage:
Technology, Defense Industries, Health Care Industry and
Pharmaceuticals.
- 1976 / 1982 Assistant Professor of Economics, Stuart School of Business
Illinois Institute of Technology, Chicago, IL

1978 / 1979 Research Associate, Committee on Public Policy Studies
University of Chicago, Chicago, IL
I was a post-doctoral fellow doing research on energy economics with a research group, the Resource Economics Group, attached to what is now the Harris School of Public Policy.

Prior to 1976 Various collegiate teaching positions in mathematics.

Education.

University of Chicago, Graduate School of Business, Chicago, Ill.: M.B.A., December, 1974, and Ph.D. in business economics, December, 1979. Thesis advisor: Jack Gould.

Northwestern University, Evanston, Ill.; Ph.D. in mathematics, June, 1970. Thesis advisor: Robert F. Williams.

Georgetown University, Washington, DC; B.S. with Honors in physics, June, 1964.

University of Chicago Law School. Academic year 1964/65. I left to enter graduate studies in mathematics at Northwestern U.

Selected Research and Publications.

FINANCE

The S&P 500 Universe: Trend and Volatility Regimes. *Journal of Index Investing*, winter 2011.

The Wholesale Power Market; The SPARK Letter #59. Public Utility Reports. November, 2008. Reprinted from *Economics in the Present Tense: Dysfunctions of the Welfare State*.

Interest Rates: A Model with Application to Active Market Timing. with Luke D. Knecht. Harris Investment Management; *Fixed Income Research Book*. 1989. Reprinted in *Experiments in Quantitative Finance*, 2011.

Gold: Volatility and Options, a Reconciliation. Illinois Institute of Technology Working Papers. 1998. Reprinted in *Experiments in Quantitative Finance*, 2011.

A Parsimonious Model of the Treasury Contracts. Illinois Institute of Technology Working Papers. 1997. Reprinted in *Experiments in Quantitative Finance*, 2011.

“Footsteps Toward a Gold Standard,” Logistic Research & Trading Co, St. Joseph, Michigan, 2012. Submitted to the annual meeting of the European Finance Association, 2012 and to the 2013 annual meeting of the American Economic Association.

ECONOMICS

Money Supply: the Extra "S" is for Extra Supply. Proceedings of the Hawaii International Conference on Business, Honolulu, Hawaii, May 2005. pp.1148-1176. Reprinted in *Economics in the Present Tense: Dysfunctions of the Welfare State*.

The Optimal Durability of Fixed Capital When Demand is Uncertain. *The Journal of Business*, 57(3). July, 1984. pp.378-403. This paper comes from my doctoral dissertation in economics.

Energy Prices and Capital Obsolescence: Evidence from the Oil Embargo Period. *The Energy Journal*. 5(1). 1984. pp.29-43. This paper is comes from my work with the Resource Economics Group at the University of Chicago.

Approximate Aggregation and Error in Input-Output Models. with Alan M. Wolsky and George S. Tolley. *Resource and Energy Economics*. 4. 1982. pp.203-230.

On the Measurement of the Deterrent Effect of Capital Punishment and the Theory of Deterrence. With Isaac Ehrlich. *Journal of Legal Studies*. 6(1). January, 1977. pp. 35-50. This article has been incorporated into many collections of research on capital punishment.

Capital - Energy Substitution in the Long Run. *The Energy Journal*, 5(2). 1984. pp. 109-118.

Comments on Edward Sabella: 'An Empirical Procedure of Evaluating Local Assessment Compliance with State Assessment Law.' *Journal of Economics and Business*. 29. 1976. pp. 235-238

MATHEMATICS

Circle-preserving Functions of Spheres. with Cary Webb. *Transactions of the American Mathematical Society*. 248(1). February, 1979. pp.67-83.

Finite Partitions of Spheres. *Journal of Combinatorial Theory, Series A*. 33(2). September, 1982. pp.220-222.

One-dimensional Basic Sets in the Three-sphere. *Transactions of the American Mathematical Society*. 164(1). February, 1972. pp.163-177. This paper comes from my doctoral dissertation in mathematics.

A Note on One-dimensional Attracting sets in the Three-sphere. *Proceedings of the American Mathematical Society*. 31(2). February, 1972. pp.620-622.

Colorings of the n-sphere and Inversive Geometry, with Yusheng Luo, submitted to *Discrete and Computational Geometry*, July 2013.

Weakly Circle-preserving Maps in Inversive Geometry, with Yusheng Luo, submitted to the *Proceedings of the American Mathematical Society*, July 2013.

PHILOSOPHY and LAW

Work, Labor, and Social Justice. *Catholic Social Science Review* XVI, 2011.

The Natural Need for Public Standards: the Case of Marriage Law. *Catholic Social Science Review* XVIII, 2013.

On the Organization of Life, *Proceedings of the Association for the Scientific Study of Religion*, Dallas Texas, 2012.

For God so loved the World. Submitted to the *Catholic Social Science Review* XVIII, 2013.

BOOKS

Editor and principal author of *The Harris Investment Management Co.: Fixed Income Research Book*. Harris Investment Management Co., Inc.; Chicago, Ill. 1989.

Rethinking the Headlines: Studies in Law, Justice, and Society. New York: Vantage Press, 2006. __ 2nd ed. Bloomington, Indiana: Xlibris Press, 2009.

Economics in the Present Tense: Dysfunctions of the Welfare State. New York: Vantage Press, 2008. __ 2nd ed. Bloomington, Indiana: Xlibris Press, 2009. Current edition: *Dysfunctions of the Welfare State*. Piscataway, NJ: Transaction Publishers, the Rutgers University Press, 2010.

Man and God in the World: a Treatise on Human Nature. Bloomington, In.: Xlibris Press, 2009. 2nd edition, Xlibris Press, 2011. Reviewed by Professor Lloyd Sandelands in the *Catholic Social Science Review*, 2009. Reviewed by Fr. Robert Araujo in the *Social Justice Review*, No. 9-10, Autumn. 2009.

The Empire Strikes a Match in a World Full of Oil. Bloomington, In.: Xlibris Press, 2010. __ 2nd edition Xlibris Press, 2011. Reviewed by Professor Tassos Malliaris, Loyola University of Chicago.

Experiments in Quantitative Finance. Bloomington, In.: Xlibris Press, 2010. Current edition: *Experiments in Quantitative Finance*. Piscataway, NJ; Transaction Publishers, the Rutgers University Press, 2011.

Punishment and Capital Punishment in Principle. Manuscript available from Logistic Research and Trading Co., November, 2012.

Footsteps toward a Gold Standard. Manuscript available from Logistic Research & Trading Co., August, 2013.

SHORT ESSAYS

2013 Sea Change on China's Coast," *Speaking Freely, Asia Times Online*, April 25,

"Language Arts: in Defense of Free Speech," Logistic Research & Trading Co., St. Joseph, Michigan, 2011.

"One Nation under God," Logistic Research & Trading Co., St. Joseph, Michigan, 2008.

"Trust, Risk, and Regulation," Logistic Research & Trading Co., St. Joseph, Michigan, 2008.

"Welcome to the Ghetto," Logistic Research & Trading Co., St. Joseph, Michigan, 2009.

"Love Thyself," Logistic Research & Trading Co., St. Joseph, Michigan, 2009.

"The Value of Truth," Logistic Research & Trading Co., St. Joseph, Michigan, 2009.

"On the Image of God," Logistic Research & Trading Co., St. Joseph, Michigan, 2009.

BOOKS REVIEWED

Charles E. Rice and Alfred Freddoso. *What Happened to Notre Dame?* South Bend, In; St. Augustine Press, 2009. Reviewed for the *Social Justice Review*, No. 9-10, p. 156.

Saleem Ali. *Treasures of the Earth: Need, Greed, and a Sustainable Future*. New Haven; Yale University Press, 2009. Reviewed for the *Journal of Markets and Morality* 13(1), 2010, pp. 233-35.

Other Professional Activities.

I have addressed seminars and workshops at many universities, including the University of Chicago, the University of Michigan, Purdue University, the University of Toronto, the University of Notre Dame Law School, and Case Western Reserve University. I have also addressed the Investment Management Institute and various other professional groups numerous times in the finance field.

As an energy economist, I served as the president of the Chicago chapter of the International Association of Energy Economists and subsequently served for many years on their board.

I am a member of the Knights of Columbus, 4th degree and serve as the Financial Secretary of Council 13942 (Saint Joseph, Michigan).

I am listed in Worldwide Who's Who, at www.worldwideregistry.com.

Professional Affiliations.

Beta Gamma Sigma
Society of Catholic Social Scientists
American Economic Association
Society of Financial Econometricians