

CURRICULUM VITAE

Name: Fred M. Westfield

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Date and Place of Birth: November 7, 1926, in Essen, Germany

Nationality: U.S.A.

Marital Status: Married

Education:

M.I.T., Ph.D. (Industrial Economics), 1957
Vanderbilt University, B.A. (magna cum laude), 1950
West End High School, Nashville, Tennessee, 1940 1944

Military Service:

U.S. Army, Ordnance School (Student and Instructor), 1945 1946

Positions Held:

Professor of Economics Emeritus, Vanderbilt University, 1998-
Professor of Economics, Vanderbilt University, 1965 1998
Associate Professor, Northwestern University, 1960 1965
Assistant Professor, Northwestern University, 1957 1960
Lecturer, Northwestern University, 1953 1957
Teaching Assistant and Instructor, M.I.T., 1952 1953

Other Professional Appointments:

Consultant, Consumer Advocate Staff, Tennessee Attorney General, 1994.
Editorial Board, Utilities Policy (Butterworths Scientific Ltd.), 1990-
Fulbright Senior Lecturer, Universidad Nacional Del Sur (Argentina), May 1986.
Consultant and Expert Witness, City of Chattanooga (Cost of Capital: Water Supply), 1985, 1986, 1988.
Consultant and Expert Witness, Tennessee Public Service Commission (Pricing and Cost of Capital: Natural Gas and Telephone), 1982, 1983, 1984.
Consultant, UNESCO, 1982 83 (Energy Pricing: Brazil)
Expert Witness, Tennessee Public Service Commission (Telephone Pricing), 1980.
Consultant, Consumers Power Company (Electricity Load Management and Pricing), 1978.
Consultant, Electric Power Research Institute (European Electricity Pricing Practices), 1977 80.
Consultant, Federal Trade Commission (Vertical Integration), 1976 78.

Consultant, World Bank, United Nations Development Program, and Economic Planning Board of South Korea (Electricity Pricing), 1975 76.
Consultant, National Science Foundation (RANN Program), 1975.
Consultant, World Bank and East African Power and Light Company (Kenya) (Electricity Pricing), 1975.
Visiting Professor (American Economic Association, Economics Institute), University of Colorado, Summer 1973, Summer 1974.
Board of Editors, Southern Economic Journal, 1973 75.
Consultant, World Bank and the Water and Power Development Authority (Pakistan), (Electricity Pricing), 1970 72.
Consultant, Vanderbilt University AID Project in Brazil, July-August 1969.
Consultant, Council of Economic Advisers, Executive Office of the President, 1968.
Principal Investigator, National Science Foundation Research Grant (Theory of Public Regulation), 1967 71.
Consultant, Harvard University Development Advisory Service and Planning Commission, Government of West Pakistan (Electricity Pricing), June August 1967.
Consultant, Harvard University Development Advisory Service and Consejo Nacional de Desarrollo, Presidencia de la Nacion, Buenos Aires, Argentina (Electricity Costs and Prices), June August 1966.
Participant in Research, The Transportation Center, Northwestern University, 1965 1966.
Visiting Associate Professor, Vanderbilt University, 1962 1963.
Faculty, Economics Institute (American Economic Association -Ford Foundation), University of Colorado, Summer 1961; Summer 1963.
Lecturer, Transportation Center Courses for Executives, 1958 1964.
Consultant, Union Carbide Corporation, 1956 1957.

Honors:

Phi Beta Kappa, General Education Board (Rockefeller Foundation) Fellowship, M.I.T. Fellowships, Ford Foundation Faculty Research Fellowship (1958 1959). Seminars, lectures and conferences at various universities and research organizations. Chairman of Conference Sessions (Econometric Society, Southern Economic Association). Editorial Referee (American Economic Review, Journal of Political Economy, Econometrica, Southern Economic Journal, Economic Inquiry, Journal of Industrial Economics, Utilities Policy.) Program Committee, Econometric Society, 1967. Vice President, Southern Economic Association, 1976 1977. Fulbright Lectureship (Argentina), May 1986. Who's Who In America, 1996-.

Professional Memberships:

American Economic Association

Doctoral Dissertation:

Static and Dynamic Optimization Problems in the Multi-Plant Firm with Particular Reference to the Electric Power Industry (M.I.T. under P.A. Samuelson).

Publications and Conference Papers:

"Electric Power: Competition or Centralization?" Energy Policy, August 1988, pp. 378-83.

- "Vertical Industry Structure: An Analytical Scheme," Ronald A. Grieson, editor, Regulation and Antitrust, Lexington Books, D. C. Heath and Company, 1986, pp. 253-66.
- "Deadweight Losses and Vertical Integration," presented at Econometric Society Meetings, New York City, December 1982.
- "Vertical Integration: Does Product Price Rise or Fall?" American Economic Review, June 1981, pp. 334-346.
- "Regulation of Telecommunications and Vertical Industry Structure," (Conference on Telecommunications, Montreal), March 1981.
- The Economic Theory of Marginal Cost Pricing and its Application by Electric Utilities in France and Great Britain, Report #53, Electric Utility Rate Design Study, Electric Power Research Institute, August 1980, vii + 84 p.
- "Some Pure Theory of Forward Vertical Integration by Monopoly" (presented at Eastern Economic Association Meetings, Washington, D.C., 1978).
- Evolution, Welfare and Time in Economics: Essays in Honor of Nicholas Georgescu-Roegen, edited jointly with A. M. Tang and J. S. Worley, Lexington Books, D. C. Heath and Company, 1976, 182 p.
- "Integrated Firm under Regulatory Constraint" (discussion), New Dimensions in Public Utility Pricing, Harry M. Trebing, editor, Michigan State University, 1976, pp. 604-7.
- Contributor, Regulatory Reform and the Federal Aviation Act of 1975, Report of the Fifth Workshop on National Transportation Problems, 1976. (U.S. Department of Transportation, Office of the Secretary, Washington, D.C.), pp. 17-18.
- "The Operating Ratio as Regulatory Constraint" (presented at Econometric Society Meetings, San Francisco, December 28, 1974).
- "The Multi-Product Firm and Price Control" (presented at Western Economics Association Meetings, Las Vegas), June 1974.
- "Monopoly Responses to Regulation" (prepared for seminar on Economics of Public Utilities, South Central Bell), April 1972.
- Power Load Control Study, West Pakistan (with J. G. Boggis), Washington: International Bank for Reconstruction and Development, Public Utilities Projects Department, Report No. C 57a, December 3, 1971, pp. vii + 90 + 15 Annexes.
- "Methodology of Evaluating Economic Regulation," American Economic Review (Papers and Proceedings), May 1971, pp. 211-217.
- "Innovation and Monopoly Regulation," Chapter 2 of Technological Change in Regulated Industries (W. Capron, ed.), Washington, Brookings Institution, 1971, pp. 13-43.

- "Some Theory on Innovations Under Alternative Methods of Monopoly Regulation," Brookings Institution Conference on Regulation and Technological Change, February 1969.
- "A Linear Programming Approach to Costs and Prices in the Energy Sector," Studies in Economics of Regulation: No. 2, Vanderbilt University, 28 pages (offset) (Southern Economic Association Meetings, 1967).
- Electricity Tariffs in West Pakistan: A Critical Appraisal. Studies in Economics of Regulation: No. 1, Vanderbilt University, 63 pages (offset), 1967.
- "Technical Progress and Returns to Scale," Review of Economics and Statistics, November 1966, pp. 432-441.
- "Practicing Marginal Cost Pricing," The Journal of Business of the University of Chicago, January 1966, pp. 67-73.
- "Regulation and Conspiracy," American Economic Review, June 1965, pp. 424-443. Reprinted in The Journal of Reprints for Antitrust Law and Economics, Winter 1970, pp. 1059-1078.
- "Economic Consequences of Alternative Regulatory Policies" (prepared for Conference on The Economics of Regulated Public Utilities, University of Chicago, June 1964).
- "Theory of Regulation and the Electrical Conspiracies" (Midwest Economic Association Meetings, 1964).
- "Time-Preference and Economic Growth: Comment," American Economic Review, December 1959, pp. 1037-1041.
- "Mathematical Note on Optimum Longevity," American Economic Review, June 1958, pp. 329-332.
- "Marginal Analysis, Multi-Plant Firms and Business Practice: An Example," Quarterly Journal of Economics, May 1955, pp. 253-268. Reprinted in Bowman, E. H. and R. B. Fetter, eds., Analyses of Industrial Operations, Homewood: Richard D. Irwin, 1959.
- "How Can National Economics Contribute to Engineering Economics," Proceedings, Summer School and Conference, American Society for Engineering Education, 1954, pp. 26-40.
- "Economical Operation of a Hydrothermal Electric System -A Discussion of a Paper by R. J. Cypser," Power Apparatus and Systems, October 1954, pp. 1266-67. (Reprinted in Proceedings, American Institute of Electrical Engineers, 1954.)
- "Capital Coefficients for the Horizontal Retort Process of the Zinc Smelting and Refining Industry," published as Inter-industry Analysis Item No. 38, U.S. Department of Interior, Bureau of Mines, Office of the Chief Economist, 1953.

Book Reviews:

Persistent Inflation, Phillip Cagan, Monthly Labor Review, Jan. 1981, pp. 62 3.

Analysis of Inflation: 1965 1974, Joel Popkin, ed., Monthly Labor Review, Vol. 102, No. 5, May 1979, pp. 60 1.

The Citizen and the State: Essays on Regulation, George J. Stigler, in Southern Economic Journal, April 1977, pp. 1620 22.

The British Prices and Incomes Board, Allen Fels, in Monthly Labor Review, Vol. 96, No. 4, April 1973, p. 82.

Optimal Pricing and Investment in Electricity Supply: An Essay in Applied Welfare Economics, Ralph Turvey, in The Journal of Business of the University of Chicago, Vol. 45, No. 1, January 1972, pp. 105 107.

Unemployment, Idle Capacity, and the Evaluation of Public Expenditures: National and Regional Analyses, Robert H. Haveman and John V. Krutilla, and Cost-Effectiveness in Traffic Safety, Arthur D. Little, Inc., in Journal of Economic Literature, Vol. 7, No. 4, December 1969, pp. 1192 1196.

Essays in Mathematical Economics in Honor of Oscar Morgenstern, Martin Shubik, ed., in The Quarterly Review of Economics and Business, Vol. 8, No. 1, Spring 1968, pp. 95 96.

Profits in the Modern Economy, Harold W. Stevenson, and J. Russell Nelson, eds., in Journal of Finance, Vol. 23, No. 3, June 1968, pp. 560 61.

Economies of Scale in the Steam-Electric Power Generating Industry, Suilin Ling, in Journal of the American Statistical Association, Vol. 62, No. 318, June 1967, pp. 713 715.

Introduction to Modern Statistics, Werner Hirsch, in Journal of the American Statistical Association, 1958.

Experimental Design, Federer, in Jet Propulsion (Journal of the American Rocket Society), 1958.

Introduction to Operations Research, Churchman, Ackoff and Arnoff, in Jet Propulsion, 1957.

Price Discrimination in Selling Gas and Electricity, R. K. Davidson, in Current Economic Comment, 1956.

University Service:

Vanderbilt University, College of Arts and Science, Faculty Council, Elected Member, 1974 75, 1975 76.

Vanderbilt University, Accreditation by SACS (1975), Financial Resources of the University Committee, Chairman, 1974 75.

Vanderbilt University, membership of more than a dozen departmental, college and university committees, 1965 .

Vanderbilt University Faculty Senate, 1979-82, 1994-95.
Vanderbilt University, Department of Economics and Business Administration, Director of Undergraduate Studies, 1984-1987.
Graduate Faculty Council, 1991--92.
Graduate School Committee on Student Affairs, 1991--92.
College of Arts & Science Committee for Truman Scholarships, 1991--.
Various Departmental Committees, including Committee on Undergraduate Studies (continuing).
Phi Beta Kappa, Tennessee Alpha Chapter, Audit Committee, Chair, 1992.
A&S Truman Scholarship Committee, 199?--.
University Benefits Committee, 1996--.
Graduate Faculty Assembly
Department, Assistant Professor Research