

January 2005

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PRESENT POSITIONS: William Brough Professor of Economics, Emeritus and Research Associate in Environmental Studies, Williams College

PERSONAL: Born 1938, Conewago Township, York County, Pennsylvania
Married to Julia Gooden Bolton
Two sons, Christopher (b. 1967) and Jonathan (b. 1968)

EDUCATION: A.B., Franklin and Marshall College, *summa cum laude*, 1959
Ph.D., Harvard University, 1964

OTHER TEACHING AND RESEARCH POSITIONS:

Williams College:

--Department of Economics: Assistant Professor, 1966-69; Associate Professor, 1969-74; Professor, 1974-2003. Named chairs held: Edward Dorr Griffin Professor (in honor of service to the College as a whole), 1986-91; William R. Kenan, Jr. Professor (for work to improve teaching in the College), 1991-94; William Brough Professor, 1994-2003. Department Chair, 1975-76 (three semesters) and 1979-81

--Oakley Center for the Humanities and Social Sciences, Director, 1985-87;
Herbert H. Lehman Fellow, 2001-2002

--Center for Environmental Studies: Member, 1970- ; Chair of Faculty Committee on Environmental Studies, 1970-72

--Telluride Association Summer Program, Instructor, Summer 1985

--Center for Development Economics: Director of Graduate Study, 1970-71

--Significant Faculty Committees: Appointments and Promotions (elected by faculty), 1978-81; Steering (elected by faculty), 1990-92, Chair (elected by

committee), 1991-92; Faculty Compensation, 1990-92; Faculty Interview Panel (interviews candidates in many different departments), 1999-2000; Advisory Group on Admissions and Financial Aid, 1994-96; special tenure review committees for faculty in anthropology, sociology, computer science and mathematics, and astronomy

Clark University: Visiting Professor, Graduate School of Geography, Fall 1993

University of Wisconsin, Madison: Distinguished Visiting Professor, La Follette Institute of Public Affairs, Fall 1989 (taught also in Department of Urban and Regional Planning)

University of Illinois, Urbana-Champaign: George A. Miller Visiting Professor of Geography and Urban Planning, Fall 1988

University of Pennsylvania: Visiting Professor of City Planning and Visiting Lecturer in Economics, 1981-82; Visiting Lecturer in Regional Science, Spring 1989

MIT-Harvard Joint Center for Urban Studies: Visiting Research Associate, Spring 1978, 1979-81 (regional outlook project)

Wellesley College: Visiting Professor of Economics, Fall 1977

Curran Associates, Northampton, MA: Senior Economist (part time), 1973-75 (engineering and planning research)

Foreign Service Institute: Lecturer in residence, summers 1968-69

Brookings Institution: Associated Staff Member, 1965-68 (Brookings econometric model project, research on financing of higher education)

Harvard University: Instructor in Economics, 1964-66

EDITORIAL POSITIONS:

Book Review Editor, *Journal of Regional Science*, 1987-

Co-Editor, *International Regional Science Review*, 1985-89

Editorial Boards: *Journal of Regional Science*, 1982-87; 1989- ; *International Regional Science Review*, 1990- ; *Resources and Conservation*, 1976-1996; *Journal of Planning Education and Research*, 1989-91; *Canadian Journal of Regional Science*, 1990- ; *Growth and Change*, 1993- ; *Annals of Regional Science*, 1993- ; *Journal of Appalachian Studies*, 1994-97

OTHER ACADEMIC and ACADEMIC-RELATED POSITIONS:

National Science Foundation, member of Social Networks Panel to review proposals in Human and Social Dynamics Competition, 2004

Western Regional Science Association, member of Board of Directors, 2003-

Regional Science Association International, member of Alonso Prize Committee, 2002-

National Research Council, member of Committee on Place Based Decisionmaking, 2000-2002

Lincoln Institute of Land Policy, Faculty Associate, 1994-1995

American Council of Learned Societies--Soviet Academy of Sciences Exchange Conferences, U. S. Delegate, Tallinn, USSR, January 1986 and Morgantown, West Virginia, 1988 (invited to be U. S. Delegate in 1990, but could not attend due to end-of-semester duties at Williams)

National Science Foundation, Geography and Regional Science Program, Member of Research Advisory Panel, 1988-89 (two full years), Member of *Ad Hoc* Review Panel, 1985

Regional Science Association, Member of Council, 1988-91 (elected by members of association)

Sloan Fellow in Civil Engineering, Princeton University, summers 1987-1989

American Economic Association, Representative to the American Association for the Advancement of Science, 1980-6; Member of Committee to Advise Representative, 1988-91

New England Congressional Institute, Board of Advisers, 1980-83

National Academy of Sciences, Evaluation Panel for National Bureau of Standards Resource Recovery Program, 1979-82

New England Council of Water Center Directors, Member of Advisory Committee, 1979-80

New England River Basins Commission, member of Citizens' Review Committee for study of peaking electric power, 1972-73

Independent Study Board, appointed by Secretary of Commerce to study

regional effects of Federal procurement, Member, 1967

External review and advisory committees for University of Pennsylvania, Franklin and Marshall College, Bryn Mawr and Haverford Colleges, Carleton College, Oberlin College, Bucknell University, and New England Association of Colleges and Universities, various dates

LOCAL AND REGIONAL PLANNING POSITIONS AND NONPROFIT ORGANIZATIONS:

Northern Berkshire Industrial Park and Development Corporation, Member of Board of Directors, 1986-8 (gubernatorial appointment); Chair, 1986 (elected by Board)

Governor's Task Force on Northern Berkshire, 1985-86 (gubernatorial appointment)

Berkshire County Regional Planning Commission, 1979-81, 1982-8 (Clerk, 1983-85, Vice-Chairman, 1985-7), award for "Outstanding Contribution to Planning," 1988

Town of Williamstown Planning Board, 1983-6 (Vice-Chairman, 1984-5, Chair, 1985-86)

Williamstown Rural Lands Foundation, Member of Board of Directors, 1986-2003 (Founding Member of Foundation, 1986; Secretary, 1990-2, Treasurer, 1992-3)

Hoosic River Watershed Association, Member of Board of Directors, 2002- ; Treasurer, 2003-

SELECTED CONSULTING EXPERIENCE:

Nuclear Control Institute, 1990

Urban Institute, 1990

Boston College Social Welfare Research Institute, MRPIIS Multiregional Model Project, 1985-86

University of Massachusetts Infrastructure Project, 1985

U. S. Department of Health and Human Services, 1981

Brookhaven National Laboratory, 1979-81

Abt Associates, 1978-80

Coalition of Northeast Governors, 1978

U.S. Environmental Protection Agency, 1975-81

Rand Corporation, 1975-78

Governor's Citizens Commission on Education, State of Florida, 1972-73

President's Task Force on Communications Policy, 1967
Antitrust Division of Department of Justice, 1966
Various Publishers (reviews of textbook proposals and manuscripts),
various dates

PUBLICATIONS:

BOOKS:

Community and Quality of Life: Data Needs for Informed Decision Making, National Academy Press for the National Research Council, National Academy of Sciences, 2002 (I was a member of the National Research Council committee that authored the book and I drafted a significant portion of it)

Regional Diversity: Growth in the United States, 1960-90, with Gregory Jackson, George Masnick, Susan Bartlett, and John Pitkin, Auburn House for MIT-Harvard Joint Center for Urban Studies, Cambridge, Massachusetts, 1981

Defense Purchases and Regional Growth, Brookings, Washington, 1966

Defense and Disarmament, editor and major contributor, Prentice-Hall, Englewood Cliffs, New Jersey, 1966 (Spanish edition published as *Defensa y Desarme*, Mexico City, Editorial Grijalbo, 1968)

SPECIAL ISSUES OF JOURNALS EDITED:

International Regional Science Review, 13:1,2 (1990), special double issue on regional input-output analysis, edited with Randall Jackson and Guy West; co-author of "Editors' Introduction," pp. 1-7

Socio-Economic Planning Sciences, 23:5 (1989), special issue on input-output analysis, edited with Randall Jackson and Guy West; co-author of "Editors' Introduction," pp. 237-40

International Regional Science Review, 11:1 (1987), special issue on Regional Aspects of the Chinese Economic Reforms; author of "Editor's Introduction to the Special Issue," pp. 1-3

PUBLISHED PAPERS:

"Computer Simulation of the Alonso Household Location Model in the Microeconomics Course," *Journal of Economic Education*, 36:1, 2005, pp. 59-76

"Theory and Policy in Regional Science," *Annals of Regional Science*, 38:3, 2004, pp. 357-60 (invited response to Koichi Mera's Presidential Address at meeting of Western Regional Science Association, 2003)

"Place' As 'Network': Applications of Network Theory to Local Communities," in Åke E. Andersson, William P. Anderson, and Börje Johansson, eds., *The Economics of Disappearing Distance* (essays in honor of T. R. Lakshmanan), Ashgate, Burlington, Vermont, 2003, pp.115-31

"Local Social Capital and Entrepreneurship," with Hans Westlund (Swedish Institute for Growth Policy Studies), *Small Business Economics*, 21:2, 2003, pp. 77-113 (earlier, shorter version published in: University of Trollhättan/Uddevalla, "*Entrepreneurship, Firm Growth and Regional Development in the New Economic Geography*, Research Reports 01:1, Trollhättan, Sweden, 2001, pp. 127-64)

"Place Surplus, Exit, Voice, and Loyalty," in Börje Johansson, Charlie Karlsson, and Roger Stough, eds., *Regional Policies and Comparative Advantage*, Edward Elgar, Cheltenham, UK, 2002, pp. 469-488

Discussion of paper by Donald Shoup ("Curb Parking: The Ideal Source of Public Revenue) and paper by Richard Feiock and Antonio Taveras ("County Government Institutions and Local Land Use Regulation"), at conference, "Analysis of Land Markets and the Impact of Land Market Regulation," Lincoln Institute of Land Policy, Cambridge, Massachusetts, July 2002 (published on Lincoln Institute's web site:
<http://www.lincolninst.edu/education/education-coursedetail.asp?id=38>)

"Hexagonal Economic Regions Solve the Location Problem," with Frank Morgan (Dept. of Mathematics, Williams College), *The American Mathematical Monthly*, 109:2, 2002, pp.165-72

"Regional Science and Regional Practice," with Rodney C. Jensen (University of Queensland), *International Regional Science Review*, 18:2, 1995, pp. 133-45

"New Regional Science and New Economics," *Australasian Journal of Regional Studies*, 1:1, 1995, pp. 31-8

"Thoughts from Two Decades and for the Future," *A Journal* (annual of the Williams College Center for Environmental Studies), 10, 1993, pp. 28-9

"'Place Prosperity' vs. 'People Prosperity' Revisited," *Urban Studies*, 29:2, 1992, pp. 185-203; shortened version reprinted in R.D. Norton, ed., *Structuring Direct Aid: People versus Places*, vol. 9 of *Research in Urban Economics* series, JAI Press, Greenwich, Connecticut, 1993, pp. 79-98

"On the Teaching of Regional Economics," *Review of Regional Studies*, 22:2,

1992, pp. 123-7

"Strategic Regional Planning, A Portfolio Model of Regional Diversification, and Regional Benefit-Cost Analysis," in William Berentsen, Darrick Danta, and Eta Daroczi, eds., *Regional Development Processes and Policies*, Centre for Regional Studies, Hungarian Academy of Sciences, Pecs, Hungary, 1989, pp. 294-307

"Integrating Regional Economic and Environmental Models," *Socio-Economic Planning Sciences*, 23:1/2, 1989, pp. 25-37

"Regional Energy and Environmental Analysis," with T. R. Lakshmanan (Boston University), in Peter Nijkamp, editor, *Handbook of Regional and Urban Economics*, Vol. 1, *Regional Economics*, North-Holland, Amsterdam, 1986, pp. 581-628

"Strategic Planning by Regions vs. Strategic Planning by Firms and Households," in A. Straszak and J. W. Owsinski, eds., *Strategic Regional Policy*, Systems Research Institute, Polish Academy of Science, Warsaw, 1985, pp. 21-71

"Regional Econometric Models," *Journal of Regional Science*, 25:4, 1985, pp. 495-520, reprinted in Ronald Bodkin, Lawrence Klein, and Kanta Marwah, eds., *A History of Macroeconometric Model-Building*, Edward Elgar, Aldershot, U.K., 1991, pp. 451-81

"The Swedish Case Study," in T. R. Lakshmanan and Borje Johansson, eds., *Large-Scale Energy Projects: Assessment of Regional Consequences*, North-Holland, Amsterdam, 1985, pp. 163-173

"Three Mysteries About Henry George," in Stephen R. Lewis, Jr., ed., *Henry George and Contemporary Economic Development*, Williams College, Williamstown, MA, 1985, pp. 7-24

"Equity in Financing Local Services: The Case of Residential Refuse," *Resources and Conservation*, 11, 1984, pp. 45-62

"Regional Policy in the United States," *Canadian Journal of Regional Science*, 2, 1982, pp. 237-50

"Multiregional Modeling in Transition for Economies in Transition," in Peter Nijkamp *et al.*, eds., *Practice and Prospects in Multiregional Economic Modeling*, North-Holland, Amsterdam, 1982, pp. 157-70

"Industrial and Regional Policy in Multiregional Modeling," in Michael Bell and Paul Lande, eds., *Regional Dimensions of Industrial Policy*, Lexington Books, Lexington, Massachusetts, 1982, pp. 169-94

"Equity Considerations in User Charges for Residential Refuse Collection and Disposal," in Robert J. Anderson, ed., *Proceedings of a Symposium on Economic Approaches to Solid Waste Management*, U.S. Environmental Protection Agency, Cincinnati, Ohio, 1980, pp. 93-113

"Multiregional Models: Introduction to a Symposium," *Journal of Regional Science*, 20:2, 1980, pp. 131-42

"Multiregional Models in Policy Analysis: A Survey," in F. Gerard Adams and Norman Glickman, eds., *Modeling the Multiregional System*, Lexington Books, Lexington, Massachusetts, 1980, pp. 255-83

"The Impact of National Defense Spending in Urban Areas," in Norman Glickman, ed., *The Impact of Federal Policies on Urban Areas*, Johns Hopkins University Press, Baltimore, Maryland, 1980, pp. 151-74

"The Economic Analysis of Paper Recycling," in *Proceedings of Fifth Annual Research Symposium: Municipal Solid Waste: Resource Recovery*, U.S. Environmental Protection Agency, Cincinnati, Ohio, 1979, n.p.

"New England," in Benjamin Chinitz, ed., *The Decline of the Northeast*, Praeger, New York, 1978, pp. 164-74

An Assessment of Wet Systems for Residential Refuse Collection: Summary Report and Wet Systems for Residential Refuse Collection: A Case Study for Springfield, Massachusetts, both coauthored with Peter Meier and Jochen Kuhner, National Technical Information Service for the U.S. Environmental Protection Agency, 1974

"Impact on the Social and Economic Environment," with Edwin H. Clark, in Berkshire County (Massachusetts) Regional Planning Commission, *Evaluation of Power Facilities*, Pittsfield, Massachusetts, 1974, pp. 164-216

"The Financing of Post-Secondary Education," in Governor's Citizens Commission on Education in Florida, *Improving Education in Florida*, Tallahassee, Florida, 1973, pp. 283-312

"Defense Spending and Policies for Labor-Surplus Areas," in John Kain and John Meyer, eds., *Essays in Regional Economics*, Harvard University Press, Cambridge, Massachusetts, 1971, pp. 137-60

"Higher Education for Everybody: Who Pays?" in W. Todd Furniss, ed., *Higher Education for Everybody*, American Council on Education, Washington, 1971, pp. 185-201

"National Defense and Regional Development," in J. Copps, ed., *The Cost of Conflict*, Bureau of Business Research, University of Michigan, Ann Arbor, Michigan, 1969, pp. 67-78

"The Economics and Public Financing of Higher Education: An Overview," in U.S. Congress, Joint Economic Committee, *The Economics and Financing of Higher Education in the United States*, U.S. Government Printing Office, Washington, 1969, pp. 11-104

"Predictive Models for State and Local Government Purchases," in James S. Duesenberry *et al.*, *The Brookings Econometric Model: Some Further Results*, Rand McNally, New York, 1969, pp. 221-67

The Corporation and the Environment, Center for Environmental Studies, Williams College, Williamstown, Massachusetts, 1969

"Statistics on Industrial and Regional Defense Impact," *1967 Proceedings of Business and Economic Statistics Section*, American Statistical Association, 1968, pp. 200-7

"The Public Financing of Higher Education," in U.S. Congress, Joint Economic Committee, *Federal Programs for the Development of Human Resources*, U.S. Government Printing Office, Washington, 1968, pp. 239-49

"Burdens and Bargains in Higher Education," *The Public Interest*, Spring 1968, pp. 123-6

"National Defense Spending in the Boston Area," in Metropolitan Planning Council, *Economic Development in the Boston Metropolitan Area*, Harvard-MIT Joint Center for Urban Studies, Cambridge, Massachusetts, 1965, pp. 9-20

The Market for Type 41 Tobacco in Lancaster County, Pennsylvania, with Albert Bell and Winthrop Everett, Franklin and Marshall College, Lancaster, Pennsylvania, short book published for the U.S. Department of Agriculture, 1960

**SEMINARS, CONFERENCE PAPERS, AND PUBLIC LECTURES
(excluding presentations that eventually resulted directly in
publications already listed):**

"Investment in Social Capital, Networks, and Household Production," read at North American meeting of Regional Science Association International, San Juan, Puerto Rico, 2002, and at meeting of Western Regional Science Association, Rio Rico, Arizona, 2003

"A Regional Economist Reads Habermas," read at North American meeting of

Regional Science Association International, Montreal, 1999, and at meeting of Western Regional Science Association, Monterey, California, 2002

"A Sound Economic Basis for the Intangible Sense of Place," seminar in Department of Geography, Queen's University (Canada), February 2001

"What Power on Earth? Arthur Latham Perry's Reaction to Henry George," read at International Conference on Henry George In Commemoration of the 100th Anniversary of His Death, New York City, November 1997 (also Williams College Economics Department Research Paper No. 162, June 1993)

"'Place' as Network and as Community: Some Thoughts on the 'Sense of Place'," Charles M. Tiebout Memorial Lecture, Pacific Northwest Regional Economic Conference, Portland, Oregon, May 1996 (similar papers read in seminars at Department of Applied Economics and Statistics, University of Nevada-Reno and Department of Geography, University of Washington--Seattle, April 1996, and Economics Department, Franklin and Marshall College, May 1997)

"An Economist's Interpretation of a 'Sense of Place'," 30th Anniversary Lecture, Regional Research Institute, West Virginia University, October 1995

"'Symptoms' in the Work of Henry George and Arthur Latham Perry," Seminar Paper at Center for the Humanities and Social Sciences, Williams College, October 1995

"Regional Economics," read at Seminar on World Coal Regions, Truskaverts, Ukraine (sponsored by Ukraine Academy of Sciences and West Virginia University), August 1992

"The Economic Interpretation of a 'Sense of Place': Local Public Goods Aspects," read at North American meeting of Regional Science Association International, Toronto, November 1988

"Regional Effects of Some National Government Policies in the United States," read at American Council of Learned Societies--Soviet Academy of Sciences Exchange Conference, Morgantown, West Virginia, May 1988

"An Economic Interpretation of a 'Sense of Place': Speculations and Questions," paper read at meeting of Association of American Geographers, Portland, Oregon, April 1987, at North American meeting of Regional Science Association International, Baltimore, November 1987, and in seminar at Department of Geography, University of Wisconsin-Madison, and Department of Geography, University of Minnesota-Twin Cities, Fall 1987

"Portfolio Analysis of Regional Diversification: Some Empirical Results," paper

read at North American meeting of Regional Science Association International, Columbus, Ohio, November 1986

"Recent Multiregional Modeling Efforts in the USA," paper read at American Council of Learned Societies--Soviet Academy of Sciences Exchange Conference, Tallinn, USSR, January 1986

"A Portfolio Analysis of Diversification of a State Economy," paper read at meeting of American Economic Association, San Francisco, December 1983, and Second International Congress of Arts and Sciences, Rotterdam, June 1984

"The Public Sector in Regional Models," paper read at NSF Conference on the State of the Art in Regional Modeling, MIT-Harvard Joint Center for Urban Studies, Cambridge, Massachusetts, March 1980

OTHER UNPUBLISHED PAPERS:

"Infrastructure in Massachusetts: An Economist's Perspective," prepared for Massachusetts Infrastructure Project, University of Massachusetts, June 1985, and distributed by the Project in mimeographed form

"Regional Projections," prepared for Regional Outlook Project, MIT-Harvard Joint Center for Urban Studies, February 1981 (parts incorporated in book authored by Jackson, Masnick, Bolton, Bartlett, and Pitkin, 1981, listed above)

"Regional Business Cycles and Regional Econometric Models, study for Rand Corporation, 1978

"The Political Economy of Defense Manpower Policy No. 4," study for Rand Corporation, 1978

RESEARCH IN PROGRESS:

Continued work on the economic interpretation of the "sense of place," the relevance of "sense of place" for local economic development and for regional policy, sense of place as a form of social capital, and on the theory of networks applied to social interactions that build a "sense of place"

Continued work on Arthur Latham Perry, Williams College faculty member and prominent writer in political economy in the 19th century, especially his reactions to Henry George

The Relevance of Jürgen Habermas for Contemporary Regional Economics, Planning, and Social Capital