

WILLIAM R. BLACK

Current Position

Emeritus Professor, Department of Geography (College of Arts and Sciences), Indiana University, Bloomington, Indiana

Current Mailing Address

Department of Geography
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Education

California State College, B.S. (Geography), 1964
University of Iowa, M.A. (Geography), 1966
University of Iowa, Ph.D. (Geography), 1969

Major Professional Interests

Transportation Analysis and Modeling
Geographic Information Systems
Economic and Environmental Impact Analysis
Quantitative Methods

Typical Courses Taught

Introduction to Transportation Analysis
Urban Transportation Planning
Sustainable Transportation
Human Impact on the Environment

Honors and Awards

Award for Contributions to Sustainable Transportation, Chinese Institute of Transportation, Taiwan, 2007.

Member of the Board of Editors, *Growth and Change: A Journal of Urban and Regional Policy*, 2005-

Designated as an Emeritus Member of the Transportation Research Board, National Research Council for significant contributions to the organization, January 2005.

Distinguished Service Award, Transportation Research Board, National Research Council, January 2002.

Scientific Member representing the United States, MoVe (Mobility Venice), sponsored by the FIA Foundation, 2002-

Presented the Fleming Lecture at the Annual Meeting of the Association of American Geographers, Pittsburgh, PA, April 7, 2000

Member of the Board of Editors, *International Journal of Environment and Pollution*, 2000 -

Member of the Board of Editors, *International Journal of Global Environmental Issues*, 2000-

Who's Who in the World, 2000

Member of the Board of Editors, *Journal of Transport Geography*, 1998 -

Guest speaker for a session on Sustainable Transportation at the first annual meeting of the newly merged Royal Geographical Society and the Institute of British Geographers, Glasgow, Scotland, January 1996

North American Corresponding Member of the Transport Geography Research Group - Royal Geographical Society-Institute of British Geographers, 1996-1998

Who's Who in America, 1995, for the 50th edition of the same (1996).

Chairman, Committee on Social and Economic Factors, Transportation Research Board, National Research Council, 1996 - 1999, 1999 - 2002

North American Chairman, National Science Foundation-European Science Foundation Committee on Transportation Research, 1996 - 1999

Association of American Geographers Edward L. Ullman Award for Contributions to Transportation Geography, Chicago, March 1995

Guest Scholar, The Brookings Institution, Washington, D.C., 1982

Meritorious Achievement Award from the Alumni Association of California State College, California, Pennsylvania, 1980

Sagamore of the Wabash, presented by the Office of the Governor for Public Service to the State of Indiana, 1980

Member of Activation Task Force, Consolidated Rail Corporation, 1975-76

National Science Foundation Dissertation Fellow, 1967-1969

Professional Organizations

Transportation Research Board/National Research Council (named emeritus member in July 2004)

Association of American Geographers (since 1964)

Employment Experience

Indiana University, Bloomington, Indiana

Chairman, Department of Geography, College of Arts and Sciences, 2003-2007

Professor, Department of Geography, College of Arts and Sciences and Professor of Public and Environmental Affairs, School of Public and Environmental Affairs, since 1977

Associate Professor, Department of Geography, College of Arts and Sciences and School of Public and Environmental Affairs, 1973-1977

Assistant Professor, Department of Geography, College of Arts and Sciences, 1969-1973

Chairman, Department of Geography, College of Arts and Sciences, 1985 - 1989

Acting Director, Transportation Research Center, School of Public and Environmental Affairs and School of Business, March - September, 1985

Adjunct Professor, Transportation, School of Business, 1979-1983

Chairman, Urban and Regional Analysis Faculty, School of Public and Environmental Affairs, 1976-1978

Director, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, 1973-1978

Purdue University, West Lafayette, Indiana

Adjunct Professor, Department of Urban and Transportation Engineering, School of Engineering, 1973

Miami University, Oxford, Ohio

Assistant Professor, Department of Geography, College of Arts and Sciences, 1968-1969

State of Indiana, Indianapolis, Indiana

Director of the Department of Transportation and Member of the Transportation Coordinating Board, 1980

Consolidated Rail Corporation, Philadelphia, Pennsylvania

Chief, Conrail-State Negotiations, Activation Task Force of the Consolidated Rail Corporation, 1975-1976

Research Experience

Principal Investigator, Project: Forecast of Commodity Flows by Rail and Truck, Indiana Department of Transportation, 2004-2006

Principal Investigator, Project: STAR/STELLA Transatlantic Thematic Network Grant, National Science Foundation, 2002-2006

Principal Investigator, Project: Thematic Network for Transatlantic Transportation Research Grant, National Science Foundation, 2000-2004.

Principal Investigator, Project: "Social Change and Sustainable Transport Workshop and Conference," National Science Foundation,

1997-2000.

Principal Investigator, Project: “Indiana State Rail Plan,” for the Department of Transportation, State of Indiana, and the Federal Railroad Administration, U.S. Department of Transportation, 1994-1995.

Principal Investigator, Project: “Full Cost Analysis of Alternate Transport Modes,” for the Department of Transportation, State of Indiana, and the Federal Highway Administration, U.S. Department of Transportation, 1993-1995

Principal Investigator, Project: “Effects of Road Reconstruction on Adjacent Economic Activities,” for the Department of Transportation, State of Indiana, and the Federal Highway Administration, U.S. Department of Transportation, 1993-1995

Principal Investigator, Project: “Development of a Database and Traffic Assignment for Commodity and Vehicle Flows in the State of Indiana, Phase II,” for the Department of Transportation, State of Indiana, and the Federal Highway Administration of the U.S. Department of Transportation, 1993-1997

Principal Investigator, Project: “The Identification of Public Transit Needs in Indiana,” for the Department of Transportation, State of Indiana, 1991-1992

Co-Principal Investigator, Project: “The Development of a Database and Traffic Assignment for Commodity Flows in the State of Indiana, Phase I,” for the Department of Transportation, State of Indiana, and the Federal Highway Administration of the U.S. Department of Transportation, 1991-1993

Principal Investigator, Project: “Elements of the 1987 Indiana State Rail Plan,” for the Department of Transportation, State of Indiana and the Federal Railroad Administration of the U.S. Department of Transportation, 1986

Principal Investigator, Project: “Abandoned Railroad Land Study,” for the Transportation Planning Office, State of Indiana, 1985-1986

Principal Investigator, Project: “Elements of the 1985 Indiana State

Rail Plan,” for the Department of Transportation, State of Indiana and the Federal Railroad Administration of the U.S. Department of Transportation, 1984

Principal Investigator, Project: “Indiana State Rail Plan 1983,” for the Department of Transportation, State of Indiana, and the Federal Railroad Administration, U.S. Department of Transportation, 1982

Principal Investigator, Project: “Cost Benefit Analysis for Rail Projects: Methodology and Applications,” for the Public Service Commission of Indiana, 1979

Principal Investigator, Project: “Indiana State Rail Plan,” for the Public Service Commission of Indiana and the Federal Railroad Administration, U.S. Department of Transportation, 1975

Principal Investigator, Project: “Rail Line Abandonment - Curtailment and Rural Development,” for the Council of State Governments and the Economic Development Administration, U.S. Department of Commerce, 1974-1975

Principal Investigator, Project: “An Evaluation of the Economic and Transportation Impacts of the Rail Reorganization Act on the State of Indiana,” for the Office of the Governor, State of Indiana, 1974-1975

Technical Director, Project: “Urban Mass Transit Technical Study: Bloomington, Indiana,” for the City of Bloomington and the Urban Mass Transportation Administration, U.S. Department of Transportation, 1973

Research Associate, Project: “Mobility Indicators: A Pilot Study,” for the Indiana University Foundation, 1972

Technical Director, Project: “Indiana/National Transportation Needs Study,” for the Office of Planning, Indiana Department of Commerce, and the U.S. Department of Transportation, 1971

Research Associate, Project: “A Locationally Oriented Classification of American Industries,” for the National Science Foundation, University of Iowa, 1969

Major Administrative Experience at Indiana University

Chairman, Department of Geography, College of Arts and Sciences, 2003-2007

Chairman, Department of Geography, College of Arts and Sciences, 1985-1989

Acting Director, Transportation Research Center, School of Business and School of Public and Environmental Affairs, 1985

Program Coordinator, Regional Analysis and Planning Program, Department of Geography and School of Public and Environmental Affairs, 1979-1982

Chairman, Urban and Regional Analysis Faculty of the School of Public and Environmental Affairs, 1976-1978

Director, Center for Urban and Regional Analysis, 1973-1979

Chairman, University Committee for Urban Affairs, 1973-1979

Grants and Research Contracts

Forecasting Commodity Flows by Rail and Truck, Indiana Department of Transportation (\$154,000), 2004-2005.

STAR/STELLA Transatlantic Thematic Transport Research Network, National Science Foundation, (\$275,690), 2002-2004.

Thematic Network for Transatlantic Transportation Research Grant, National Science Foundation (\$45,000), 2000 - 2003

Social Change and Sustainable Transport, Berkeley (California) Conference Grant, National Science Foundation (\$50, 441), 1998 - 2000.

Social Change and Sustainable Transport Lugano (Switzerland) Workshop Grant, National Science Foundation (\$30,040), 1997; supplement (\$3,000), 1998.

State Rail Plan for 1995, for the Railroad Division of the Department of Transportation, State of Indiana (\$36,000), 1994

Full Cost Analysis of Alternate Transport Modes, for the Department of Transportation, State of Indiana, and the Federal Highway Administration, U.S. Department of Transportation (\$99,550), 1993

Effects of Road Reconstruction on Adjacent Economic Activities for the Department of Transportation, State of Indiana, and the Federal Highway Administration, U.S. Department of Transportation (\$59,950), 1993

Development of a Database and Traffic Assignment for Commodity and Vehicle Flows in the State of Indiana, Phase II, for the Department of Geography from the Indiana Department of Transportation and the Federal Highway Administration, U.S. Department of Transportation (\$99,990), 1993

The Identification of Public Transit Needs in Indiana for the Department of Geography from the Indiana Department of Transportation (\$69,215), 1991

The Development of a Database and Traffic Assignment for Commodity Flows in the State of Indiana Project for the Transportation Research Center from the Indiana Department of Transportation and the Federal Highway Administration, U.S. Department of Transportation (\$50,005), 1991

Grant for Climatological Education, Westinghouse Foundation for the Department of Geography (\$35,000), 1989.

1987 Indiana State Rail Plan Elements for the Department of Geography from the Indiana Department of Transportation (\$42,552), 1986

Railroad Right-of-Way and Property in Indiana for the Department of Geography from the Transportation Planning Office (\$40,000), 1985

1985 Indiana State Rail Plan Elements for the Department of Geography from the Indiana Department of Transportation (\$42,000), 1984

1983 Indiana State Rail Plan for the Department of Geography from the Indiana Department of Transportation (\$48,000), 1982

Indiana Intercity Bus Study for the School of Business from the Indiana Department of Transportation (\$48,000), 1980

South Bend Rail Plan for the School of Public and Environmental Affairs and the Department of Geography from the Federal Railroad Administration of the U.S. Department of Transportation (\$100,000), 1980

Indiana State Rail Plan for the School of Public and Environmental Affairs from the Public Service Commission of Indiana and the Federal Railroad Administration, U.S. Department of Transportation (\$95,000), 1975

Rail Impact Evaluation Study for the School of Public and Environmental Affairs from the Office of the Governor, State of Indiana (\$25,000), 1975

Urban Mass Transit Technical Study Grant for the School of Business from the Urban Mass Transportation Administration, U.S. Department of Transportation (\$30,000), 1973

Professional Books and Monographs

Sustainable Transport: Problems and Solutions, New York: Guilford Press, January 2010.

Transportation: A Geographical Analysis, New York: Guilford Press, June 2003.

Social Change and Sustainable Transport, edited with Peter Nijkamp. Bloomington, IN: Indiana University Press, December 2002.

Railroads for Rent: The Local Rail Service Assistance Program. Bloomington, Indiana: Indiana University Press, 1986

The States and Rail Preservation, with James F. Runke. Lexington, Ky.: The Council of State Governments, 1975

A Locationally Oriented Classification of American Industries, with Harold H. McCarty. Department of Geography, Indiana University, Monograph Series, No. 4, 1973

Other Books

Dispatches from the World: The Life of Percival Phillips, War Correspondent. Currently under review.

Mitigating Circumstances: The United States of America vs. Robert Black. E-book on Amazon Kindle, June 22, 2010.

Greenhouse Effects, A Novel. E-book on Amazon Kindle, May 22, 2010.

Journal Editing (complete issues)

Journal of Transport Geography, Vol. 5, No. 3, 1998.

Regional Science Perspectives, Vol. 4, 1974.

Regional Science Perspectives, Vol. 3, 1973.

Journal Articles, Proceedings, and Book Chapters

“Transportation Law,” in Kenneth Button and Peter Nijkamp (eds.), *Dictionary of Transportation*. London: Edward Elgar Publishers, 2011 (forthcoming).

“A New Approach to Distributing Urban Trips,” *International Journal of Environment and Sustainable Development*, Vol. 8, No. 3/4, 2008, pp. 215-228.

“Flexibility in Legacy Systems, Behavior, and Sustainability of Transport: Comments on ‘Increasing the Flexibility of Legacy Systems,’” in Barry Wellar (ed.), *Proceedings of the 2007 Anderson Distinguished Lecture in Applied Geography*, Washington, D.C.: Applied Geography Specialty Group, Association of American Geographers, 2007, pp. 21-23.

“La Investigacion Sobre Transporte A Ambos Lados Del Atlantico: estrategia Y Alcance,” with Peter Nijkamp and Aura Reggiani, in

Juan Carlos Martin, Aura Reggiani and Piet Rietveld (eds.), *Las Redes De Transporte Desde Un Enfoque Multidisciplinar*, in Pamplona: Thomson, Civitas, 2007, pp. 127-149.

“From Global Warming to Sustainable Transport, 1989-2006,” with Noriyuki Sato. *International Journal of Sustainable Transport*, Vol. 1, No. 2, 2007, pp. 73-89.

“Sustainable Solutions for Freight Transport,” to appear in *Globalized Freight Transport: Intermodality, E-Commerce, Logistics and Sustainability*, Thomas R Leinbach and Cristina Capineri (eds.) , Edward Elgar Publishers, 2006, pp. 189-216.

“ICT, Innovation and Sustainability of the Transport Sector,” with Marina van Geenhuizen (University of Delft), *European Journal of Transport and Infrastructure Research (EJTIR)*, Vol. 6, No. 1, 2006, pp. 39-60.

“Towards New Transatlantic Transport Research: The STELLA-STAR Project on the Move,” with Peter Nijkamp and Aura Reggiani. *European Journal of Transport and Infrastructure Research (EJTIR)*, Vol. 6, No. 1, 2006, pp. 1-6.

“Transatlantic Transport Research: Strategy and Scope,” with Peter Nijkamp and Aura Reggiani. *European Journal of Transport and Infrastructure Research (EJTIR)*, Vol. 6, No. 1, 2006, pp. 7-22.

“The Scope of Transatlantic Transport Research,” with Peter Nijkamp and Martin Lee-Gosselin. *IAATS Research: Journal of International Association of Traffic and Safety Sciences*, Tokyo, Japan, Vol. 29, No. 2, 2005, pp. 9-12

“Transportation, Communication and Sustainability,” with Peter Nijkamp, to appear in *New Advances in Transport Modeling: A Cross-Atlantic Perspective*, Aura Reggiani and Laurie Schintler (eds) (New York and Berlin Springer-Verlag 2005). The paper also appeared as *Research Memorandum No. 2004-24*, Vrije Universiteit, Amsterdam, 2004.

“Sustainable Transport: Meanings and Responses,” *Conference on Integrating Sustainability into the Transportation Planning Process*,

Conference Proceedings 37, Transportation Research Board, National Research Council (2005), pp. 15-31.

“Recent Developments in Transport Geography,” in K. Button and D. Hensher (eds.), **Handbook in Transport Geography**, New York: Pergamon/Elsevier, 2004, 13-26.

“Sustainable Transport and Its Implications for Tourism,” in L.M. Lumsdon and S.J. Page (eds.), **Tourism and Transport: Issues and Agenda for the New Millennium**, Amsterdam: Elsevier, 2004, 57-68.

“Sustainable Transport and Potential Mobility,” **European Journal of Transport and Infrastructure Research (EJTIR)**, 2, 3/4 (2002), pp. 179-196.

“Social Change and Sustainable Transport: A Manifesto of Transatlantic Research Opportunities,” in Marina van Geenhuizen and Peter Nijkamp, in W.R. Black and P. Nijkamp (eds.), **Social Change and Sustainable Transport**. Bloomington: Indiana University Press.

“An Unpopular Essay on Transportation,” **Journal of Transport Geography**, Vol 9, No. 1 (2001), pp. 1-11.

“Socio-Economic Barriers to Sustainable Transport,” **Journal of Transport Geography**, Vol. 8, No. 2 (2000), pp. 141-147.

“ALTERNAT: A Tool for Evaluating the Costs of Alternative Transportation Projects,” **Rivista Geografica Italiana**, Annata CVI, Fasc. 2-3, Giugno-Settembre, 1999 (published 2000).

“Toward a Measure of Transport Sustainability,” **Transportation Research Board Meeting, 2000, Conference Preprints**, Transportation Research Board, Washington, D.C., 2000, CD ROM.

“Social and Economic Factors in Transportation for the New Millennium,” **Transportation in the New Millennium**, Transportation Research Board, Washington, D.C., 2000, CD ROM.

“Commodity Flow Modeling,” in **Statewide Travel Demand Forecasting Conference Proceedings**, Transportation Research Circular No. E-C011, September 1999, Transportation Research Board, National Research Council, pp. 118-136.

“Sustainable Transportation,” Chapter 15 in R. D. Knowles and B. S. Hoyle (eds.) *Modern Transport Geography*, 2nd edition, 1998, New York: John Wiley and Sons, pp. 337-351.

“Inter-Urban Transport,” with B. Turton, Chapter 8 in R. D. Knowles and B. S. Hoyle (eds.) *Modern Transport Geography*, 2nd edition, 1998, New York: John Wiley and Sons, pp. 159-183.

“Accidents on the Belgium Motorway System: A Network Autocorrelation Analysis,” with I. Thomas, *Journal of Transport Geography*, Vol. 6, No. 1, 1998, pp. 23-31.

“The NSF-ESF Research Program on Social Change and Sustainable Transport: the Strasbourg Papers,” *Journal of Transport Geography*, Vol. 5, No. 3, 1997, p. 163.

“Full Costing,” “New Approaches to Travel Modeling,” “Virtual Reality and Three Dimensional Visualization,” *Journal of Transport Geography*, Vol. 5, No. 1, 1997, pp. 36, 46-47.

“North American Transportation: Perspectives on Research Needs and Sustainable Transportation,” *Journal of Transport Geography*, Vol. 5, No. 1, 1997, pp. 12-19.

“Sustainable Transportation: A US Perspective,” *Journal of Transport Geography*, Vol. 4, No. 3, 151-159.

“Modeling Saudi Arabia-Bahrain Corridor Mode Choice,” with Saad Aljarad. *Journal of Transport Geography*, Vol. 3, No. 4, 1995, pp. 257-268.

“Spatial Interaction Modeling Using Artificial Neural Networks,” *Journal of Transport Geography*, Vol. 3, No. 3, 1995, pp. 159-166.

“Comprehensive Transportation Costing,” with Dean L. Munn, *SEFTalk*, a newsletter of the Transportation Research Board's Social and Economic Factors Committee, Fall 1994.

“Development of An Ideal Model for the Identification of Rural Public Transit Needs,” *Transportation Research Record 1402* (1994), pp. 107-109.

“Transport Route Location: A Theoretical Framework,” *Journal of Transport Geography*, Vol. 1, No. 2 (1993), pp. 86-94.

“Network Autocorrelation in Transport Network and Flow Systems,” *Geographical Analysis*, Vol. 24, No. 3, (July 1992), pp. 207-222.

“Highway Accidents: A Spatial and Temporal Analysis,” *Transportation Research Record 1318*, (1992), pp. 75-82.

“A Note on the Use of Correlation Coefficients for Assessing Goodness-of-Fit in Spatial Interaction Models,” *Transportation: An International Planning Journal*, 17 (1991), pp. 25-31.

“Global Warming: Impacts on the Transportation Infrastructure,” *TR (Transportation Research) NEWS*, Transportation Research Board, National Research Council, 150 (1991), pp. 2-8, 34.

Economic Development in the Midwest: Research Needs and Priorities. Bloomington, IN: Regional Economic Development Institute (1990), contributor.

“Transportation Geography,” in Gary Gaile and Cort J. Willmot (eds.), *Geography in America*. Columbus, Ohio: Merrill (1989), pp. 316-332.

“An Investigation of the Ownership of Railroad Right-of-Way: The Case of Indiana,” *Transportation Research Record 1154*, (1988), pp. 4-10.

“An Assessment of the Geographical Accuracy of the Carload Waybill Sample for State Rail Planning,” with John C. Robbins, *Transportation Research Record 1038*, (1986), pp. 85-89.

“An Evaluation of Nine Methods of Projecting Rail Branch Line Traffic,” *The Logistics and Transportation Review*, Vol. 20, No. 1 (1984), pp. 67-76.

“Local Rail Service Assistance: Objectives and Initial Trends,” *Transportation Research 13A* (1979) pp. 351-360.

“On the Development of Management Fees for Subsidized Rail Service,” *Transportation Journal*, 18, No. 4 (1979) pp. 20-27.

“Current State Rail Planning and Research Needs, *Transportation Research Record* 656 (1978), pp. 5-8.

“Geographic Research and Regional Rail Transport Policy,” in R.N. Taaffe and J. Odland (eds.), *Geographic Horizons*. Dubuque, Iowa: Kendall Hunt Publishing Company (1977), pp. 40-44.

“Negotiations for Local Rail Service Continuation: The Major Issues,” *Traffic Quarterly*, 31, No. 3 (1977), pp. 455-469.

“The Indiana Rail Plan: A Case Study.” *Proceedings of the 1976 Regional Rail Planning Seminars*, Federal Railroad Administration, U.S. Department of Transportation (1977), pp. 35-46.

“The Regional Rail Reorganization Act of 1973: The Impacts of Abandonment.” *Proceedings of the National Tax Association* (1975), pp. 234-239.

“The States and Railroad Reorganization,” *State Government*, 47, No. 1 (1975), pp. 37-42.

“The Impact of Transit Subsidy on the Taxicab Industry,” *Traffic Quarterly*, 28, No. 4 (1974), pp. 619-633.

“Intermodal Impacts: Interstate Highways and Airport Viability,” *Journal of Transport Economics and Policy*, 8 (1974), pp. 1-12.

“An Analysis of Gravity Model Distance Exponents,” *Transportation: An International Planning Journal*, 2 (1973), pp. 299-312.

“Toward a Factorial Ecology of Flows,” *Economic Geography*, 48, No. 1 (1973), pp. 59-67.

“The 1972 National Transportation Needs Study in Indiana: Methodology and Findings,” *The Engineering Bulletin*, 139 (1972), pp. 119-134.

“A Comparative Evaluation of Alternate Friction Factors in the Gravity Model,” with Robert C. Larson, *The Professional Geographer*, 24, No. 4 (1972), pp. 335-337.

“Interregional Commodity Flows: Some Experiments with the Gravity Model,” *Journal of Regional Science*, 12, No. 1, 107-118.

“Trip Distribution and Urban Spatial Behavior,” *The East Lakes Geographer*, 7 (1971), pp. 13-21.

“An Iterative Model for Generating Transportation Networks,” *Geographical Analysis*, 3, No. 3 (1971), pp. 282-288.

“The Utility of the Gravity Model and Estimates of Its Parameters in Commodity Flow Studies,” *Proceedings of the Association of American Geographers*, 3 (1971), pp. 28-32.

“A Note on the Geometry of Minimal Trees,” *Geographical Analysis*, 2, No. 4 (1970), pp. 410-414.

Research Reports

Transatlantic Transport Research Activities of the STAR Thematic Network: National Science Foundation Project BCS-211499, Final Report. Bloomington, IN: Department of Geography, Indiana University, August 1, 2006, ii + 48 pages.

Freight Flows of Indiana. Prepared for the Indiana Department of Transportation and the Federal Highway Administration, U.S. Department of Transportation. Bloomington, IN: Department of Geography, Indiana University, July 1, 2006, xii + 555 pages.

NSF New Scholars Conference on Sustainable Transport, Indiana University, May 15-16, 2006. CD ROM of pre-prints of papers presented at the conference. May 8, 2006

Transatlantic Transport Research Activities of the STAR Thematic Network, report on NSF Project BCS 211499, February 8, 2005.

Environmental Justice in Transport: A Preliminary Bibliography, distributed at the Summer Meeting of the Transportation Research Board, Seattle, WA, July 1998. Also integrated with other work on the Environmental Justice website of the Federal Highway Administration.

Social Change and Sustainable Transport: Toward a Transatlantic Research Agenda, prepared for the National Science Foundation and the European Science Foundation, February 1, 1998.

Transport Flows in the State of Indiana: Commodity Database Development and Traffic Assignment, Phase 2, Bloomington, IN: Department of Geography and the Transportation Research Center, Indiana University, July 1997 (final report).

1995 Indiana State Rail Plan Commodity Forecasts: A Technical Supplement, with Dean Munn. Bloomington, IN: Department of Geography and the Transportation Research Center, Indiana University, July 1995 (final report).

A Preliminary Indiana State Rail Plan 1995, with Ray Martin, Dean L. Munn, James A. Palmer, and Richard J. Black. Bloomington, IN: Department of Geography and the Transportation Research Center, Indiana University, July 1995, viii + 349 pages (final report).

Modal Choices: An Approach to Comparing the Full Costs of Transportation Alternatives, with Dean L. Munn, Richard J. Black, and Jirong Xie. Bloomington, IN: Department of Geography and the Transportation Research Center, Indiana University, June 1995, viii + 258 pages (final report).

Effects of Road Reconstruction on Adjacent Economic Activities: A Retrospective Study, with James A. Palmer and J. Philip Cornwell. Bloomington, IN: Transportation Research Center, School of Public and Environmental Affairs, Indiana University, March 1995 (final report).

Further Analyses of Intercity Bus Transit Needs in Indiana, Bloomington, IN: Department of Geography, Indiana University, February 1993.

Transport Flows in the State of Indiana: Commodity Database Development and Traffic Assignment, Phase 1, with James Palmer. Bloomington, IN: Transportation Research Center, Indiana University, September 1992, revised February 1993.

The Identification of Public Transit Needs in Indiana, Part 3: Intercity Bus Transit. Bloomington, IN: Transportation Research Center, Indiana University, July 20, 1992.

The Identification of Public Transit Needs in Indiana, Part 2: Rural Public Transit. Bloomington, IN: Transportation Research Center, Indiana Univ., May 29, 1992.

The Identification of Public Transit Needs in Indiana, Part 1: Urban Public Transit. Bloomington, IN: Transportation Research Center, Indiana University, 1992.

Elements of the 1987 Indiana Rail Plan Update, with Daniel C. Knudsen, *et al.*, Prepared for the Indiana Department of Transportation and the Federal Railroad Administration of the U.S. Department of Transportation, 1986

Railroad Right-of-Way and Property in Indiana. Prepared for the Transportation Planning Office, State of Indiana, 1985 (published by the TPO in 1986).

Elements of the Indiana State Rail Plan 1985, with John C. Robbins, *et al.* Prepared for the Indiana Department of Transportation and the Federal Railroad Administration of the U.S. Department of Transportation, 1984.

Indiana State Rail Plan 1983, with John C. Robbins, *et al.* Prepared for the Indiana Department of Transportation and the Federal Railroad Administration of the U.S. Department of Transportation, 1982.

Indiana Transportation Issues. The Department of Transportation, State of Indiana, Indianapolis, Indiana, 1980.

A Report and Evaluation of the Railroad Division and the Transportation Planning Department of the Public Service Commission of Indiana. A confidential report prepared for the Public Service Commission of Indiana, 1980.

A Manual for State Benefit Cost Analysis of State Rail Projects, with S. Eisenach, D.C. Knudsen, and J.C. Robbins. Public Service Commission of Indiana, Indianapolis, 1979.

Indiana's Local Rail Service Assistance Program - The State's Benefit Cost Analysis, with S. Eisenach and D.C. Knudsen. Public Service Commission of Indiana, Indianapolis, 1979.

Illinois Central Gulf Railroad Indianapolis District Rehabilitation Program and Cost Estimate - The State's Cost-Benefit Analysis, with S. Eisenach and D.C. Knudsen. Public Service Commission of Indiana, Indianapolis, 1979.

The CRC-State Negotiating Instrument - 1977. A confidential report prepared for the Consolidated Rail Corporation, Philadelphia, 1977.

The Light Density Line Program: Selected Topics. A confidential report prepared for the Consolidated Rail Corporation, Philadelphia, 1977.

The CRC Operating Agreement of 1976: Summary and Analysis. A confidential report prepared for the Consolidated Rail Corporation, Philadelphia, 1976.

Indiana State Rail Plan, Phase 2, Vol. I, II, and Supplement, and Final Report. These four volumes were prepared under contract with the Public Service Commission of Indiana and the Federal Railroad Administration, U.S. Department of Transportation, 1975.

The Northeast and Midwest Rail Crisis: A Bibliography of Current Literature, with James F. Runke. Prepared for the Council of State Governments and the Economic Development Administration, U.S. Department of Commerce, 1975.

USRA Segments in Indiana: State Analysis and Recommendations, Vols. I, II, III, and IV. Prepared for the Office of the Governor, State of Indiana, 1974.

Critique of Proposed Standards for Determining Rail Service Continuation Subsidies. Prepared for the Governor's Rail Task Force for Submission to the Rail Services Planning Office, Interstate Commerce Commission, 1974.

Intermodal Impacts: Federal Public Transit Programs and the Taxi Industry. Center for Urban and Regional Analysis, Indiana University, Research Paper No. 2, 1973.

A Transit Forecasting Methodology for Initial Systems in Small Urban Areas. Center for Urban and Regional Analysis, Indiana University, Research Paper No. 1, 1973.

Mass Transit Technical Study: Bloomington, Indiana, with George M. Smerk, *et al.* Prepared for the City of Bloomington and the Urban Mass Transportation Administration, U.S. Department of Transportation, 1973. This report led to the creation of the Bloomington Transit System.

Narrative Report of the Indiana/ National Transportation Needs Study, principal author and editor. State Division of Planning, Department of Commerce, State of Indiana, 1971.

Substitution and Concentration: An Examination of the Distance Exponent in Gravity Model Commodity Flow Studies. Department of Geography, Indiana University, Discussion Paper Series, No. 1, 1971.

A Study of the Accessibility of Alternate Locations for a New University Library. A report to the President of Miami University, Oxford, Ohio, 1969.

A Bibliography of Selected Research on Networks and Urban Transportation Relevant to Current Transportation Geography Research, with Frank E. Horton. Department of Geography, Northwestern University, Research Paper Series, No. 28, 1968.

Growth of the Railway Network of Maine: A Multivariate Approach. Department of Geography, University of Iowa, Discussion Paper Series, No. 5, 1967.

Published Reviews (Books and Software)

Review of Mary R. Brooks, "North American Freight Transportation: Security and Prosperity," ***Growth and Change***, Vol. 49, No. 3, pp. 558-561.

Review of Richard Gilbert and A. Perl, "Transportation Revolutions: Moving People and Freight without Oil," *Journal of Transport Geography*, Vol. 16, p. 444, 2008

Review of Kenneth Button, Roger Stough with Michelle Bragg and Samantha Taylor (eds.) "Telecommunication, Transportation and Location," *Journal of Transport Geography*, Vol. 15, pp. 76-77, 2007.

"Review of William L. Garrison and Jerry Ward's 'Tomorrow's Transportation'", *Journal of Transport Geography*, Vol. 9, No. 1, 2001, pp. 76-77.

"Review of Erik Ferguson's 'Travel Demand Management and Public Policy'", *Journal of Transport Geography*, Vol. 9, No. 1, 2001, pp. 75-76.

"Review of Todd Litman's 'Transportation Cost Analyzer, version 1.0a.' *AAG Newsletter*, October 1996.

"Review of Paul Niewenhuis and Peter Wells (eds.), 'Motor Vehicles in the Environment: Principles and Practice,'" *Journal of Transport Geography*, Vol. 4, No. 3, 1996, pp. 219-221.

"Review of T.G. Carpenter's, 'The Environmental Impact of Railways' ", *The Professional Geographer*, Vol. 47, No. 3, 1995, p. 348.

"Review of 'The Politics of Industrial Change: Railway Policy in North America' by R. Kent Weaver," in *Transportation Journal*, Vol. 25, No. 4 (1986), pp. 66-67.

"Review of 'Railroads, Freight and Public Policy by T.E. Keeler,'" in *Business Horizons*, Vol. 27, No. 2 (1984), pp. 81-83.

"Review of 'Movement in Cities by P.W. Daniels and A.M. Warnes,' " in *Urban Geography*, Vol. 3, No. 1 (1982), pp. 81-83.

"Review of 'Planning the Location of Urban-Suburban Rail Lines by Glenn D. Westley,' " in *The Professional Geographer*, Vol. 32, No. 1 (1980).

“Review of ‘The Urban Circulation Noose by James O. Wheeler,’”
in *The Professional Geographer*, Vol. 27, No. 1 (1975), pp. 137-138.

Software Developed

ALTERNAT (Version 1.1, 1995) developed with Dean Munn and Richard J. Black is a software package for evaluating the costs of different modal solutions for regional transport corridor problems, for congested urban corridors, and for new systems.

INTERCIT (Intercity Bus Transit Extension Evaluation System), Version 1.1 (1993). An interactive computer program for estimating the operating costs and revenues of extending intercity bus transit service to areas not currently served. User may change the level of service (times served per day and days served per year), operating costs per mile, revenues per passenger mile, and trip generation rates. Default values may be used in most cases, but user must input the trip generation rate although several values are given as typical.

PTAS (Public Transit Analysis System), Version 1.1 (1992). An interactive computer program for estimating the impact of operating changes on transit system performance, for evaluating transit performance, and for forecasting ridership, costs and revenues on new transit systems in urban and rural areas.

NETTRANS (Network and Transportation Analysis System, Version 1.0 (1988). An interactive computer program that allows students to execute several major network and flow models. Included are shortest path algorithms, gravity models, connectivity measures, and transaction flow analysis.

Papers at Professional Meetings, Conferences, and Related

“Sustainable Transport: Meanings and Responses,” presented at the Conference on Integrating Sustainability into the Transportation Planning Process. Sponsored by the Transportation Research Board, National Research Council, Baltimore, July 2004.

“A New Approach to Distributing Urban Trips.” Presented at the Centennial Meeting of the Association of American Geographers, Philadelphia, March 2004

“Globalization, E-economy, Transport and Trade,” with Cristina Capineri (University of Siena). Presented at the NSF-EC STELLA Focus Group meeting on Globalization, E-economy and Trade, Washington, DC, January 2004

“Toward a Measure of the Influence of Globalization on the Sustainability of Transport.” Presented at the NSF-EC STELLA Focus Group meeting on Globalization, E-economy and Trade, Washington, DC, January 2004

“STAR: A Thematic Research Network.” Presented at the NSF-EC STELLA Focus Group meeting on Globalization, E-economy and Trade, Washington, DC, January 2004

“STAR: A Thematic Research Network.” Presented at the NSF-EC STELLA Focus Group meeting on ICT and Innovations in Transportation, Newcastle, May 2003.

“Globalization, E-Commerce and Trade,” invited presentation at the NSF Next-Gen Conference on Sustainable Transport in Montreal, Canada, March 2003

“The Estimation of Flow Volumes Using Remotely Sensed Aerial Imagery,” with Noriyuki Sato. Presented by Black at the 2003 meeting of the Association of American Geographers, New Orleans, LA., March 2003.

“Global Indicator of Sustainable Transport and Mobility,” presented at the NSF-EC Focus Group-5 session, Helsinki, Finland, May, 2002.

“The STAR Thematic Network: Origins and Prospects,” a power point presentation given at the Arlington, Helsinki, and Siena meetings of the three NSF-EC Focus Groups, 2002.

“Reflections on Urban Travel and Urban Travel Models.” A paper presented before the Organizing Committee for MoVe (Mobility Venice) Conference of the Automobile Club D’Italia, the FIA Foundation, and the Università Degli Studi di Milano, held at Milan, June 2002.

“European Union - North American Common Transportation Issues Thematic Network STELLA Research Issues: European and North

American Perspectives,” with Peter Nijkamp. Prepared for presentation at the annual meeting of the Transportation Research Board, January 2002.

“On the Need for Practical Methods of Estimating the Social and Economic Effects,” presented at the 80th annual meeting of the Transportation Research Board, January 2001.

“A Global Measure of Transport Sustainability and Potential Mobility,” presented to the Center for Transportation Research and the Department of Geography, University of Kentucky, October 2000.

“An Unpopular Essay on Transportation,” Fleming Lecture at the 2000 meeting of the Association of American Geographers, Pittsburgh, PA, April 2000.

“Development of a Global Index of Sustainable Transport and Mobility,” presented at the NECTAR Cluster meeting, Siena, Italy, March 2000.

“Toward a Measure of Transport Sustainability,” presented at the 79th annual meeting of the Transportation Research Board, Washington, DC, January 2000.

“Social Change and Sustainable Transport: A Manifesto on Transatlantic Research Opportunities,” with Marina van Geenhuizen and Peter Nijkamp. Plenary session presentation at the Conference on Social Change and Sustainable Transport, University of California, Berkeley, CA, March 1999.

“Sustainable Transport: Social Costs and Issues,” a paper to be presented at the 78th annual meeting of the Transportation Research Board, January 1999 (presented by Gui Shearin in my absence).

“Commodity Flow Modeling,” an invited presentation at the Conference on Statewide Travel Demand Forecasting, Transportation Research Board, Beckman Center, Irvine, CA, December 1998.

“The Nature of Sustainability in the Transport Sector,” an invited paper presented at the Catholic University of Louvain, Louvain de Neuve, Belgium, October 1998.

“Social and Economic Impacts of Sustainable Transport,” a presentation at the Summer Meeting of the Transportation Research Board, Seattle, WA, July 1998.

“Progress of the SCAST Program,” a presentation to the staff of the National Science Foundation, June 1998.

“Transport Flows in the State of Indiana: Commodity Database Development and Traffic Assignment.” Presented at the 77th Annual Transportation Research Board Meeting in Washington, DC, January 1998

“Indiana Commodity Flow Modeling.” Presented at the 1996 Indiana State MPO Conference, Evansville, IN, October 1996.

“ALTERNAT: A Computer Program for Analyzing Transport Costs.” Presented at a special session of the microcomputer specialty group of the Association of American Geographers, Charlotte, NC, 1996.

“Redefining the Costs of Spatial Interaction.” Presented at the Annual Meeting of the Association of American Geographers, Charlotte, NC, 1996.

“Sustainable Transportation: A North American Perspective.” Invited presentation at an RGS-IBG Conference in Glasgow, Scotland, January 1996.

Discussant on the Douglas Fleming Lecture given by Gordon J. Fielding, “Congestion Pricing and the Future of Public Transit.” Presented at the Annual Meeting of the Association of American Geographers, March 1995.

“The Rail Planning Component of ISTEA's Intermodal Management System.” Presented at the Transportation Research Board Meeting in Washington, D.C., January 1995.

“Flow Modeling Using Artificial Neural Networks.” Presented at the Annual Meeting of the Association of American Geographers, San Francisco, CA, 1994.

“Transportation and Sustainable Development.” Presented at the Governor's Environmental Conference II, Indianapolis, October 1993.

“Network Autocorrelation in the Analysis of Flows on Transportation Networks.” Presented at the joint meeting of The Institute of Management Sciences (TIMS) and the Operations Research Society of America (ORSA), Chicago, May 1993.

“Geographic Information Systems in Transport Research: Experiences in the United States.” Presented at the Annual Meeting of the Association of American Geographers, Atlanta, GA, 1993.

“Modeling the Demand for Urban Public Transit.” Presented at the Annual Meeting of the Association of American Geographers, Atlanta, GA, 1993.

“Development of An Ideal Model for the Identification of Rural Public Transit Needs.” Presented at the Annual Meeting of the Transportation Research Board of the National Research Council, Washington, DC, 1993. Preprint 930240.

“Assessing Intercity Bus Transit Needs in Indiana Using a Geographic Information System.” Presented at the Annual Meeting of the Transportation Research Board of the National Research Council, Washington, DC, 1993. Preprint 930239.

“Early Experiences with Geographic Information Systems in Transport Research.” Presented at the Annual Meeting of the Transportation Research Forum, St. Louis, 1992.

“Climate Change and Transportation Response: Impacts on the Surface Transportation Infrastructure and Strategic Planning,” with Chris Saricks (Argonne National Laboratory). Presented at the Annual Government/Industry Meeting of the Society of Automotive Engineers, Washington, DC, 1991.

“Detecting Highway Accident Clustering Using Spatial Autocorrelation Techniques.” Presented at the Annual Meeting of the Association of American Geographers, Miami, FL, 1991.

“Highway Accidents: A Spatial and Temporal Analysis.” Presented at the Annual Meeting of the Transportation Research Board of the National Research Council, Washington, DC, 1991.

“Spatial Temporal Autocorrelation Analysis of Highway Accidents.” Presented at the Annual Meeting of the Association of American Geographers, Toronto, Canada, 1990.

“Toward a Theory of Transport Route Location.” Presented at the Annual Meeting of the Association of American Geographers, Baltimore, MD, 1989.

“Transportation Geography: Paradigms and Progress.” Presented at the Annual Meeting of the Association of American Geographers, Phoenix, AZ, 1988.

“Freight Demand in the Riyadh-Damman Corridor: A Logit Formulation,” with Mohammed Al-Mogarry. Presented by the coauthor at the Third International Road Federation Middle East Meeting, Riyadh, Saudi Arabia, 1988.

“An Investigation of the Ownership of Railroad Right-of-Way: The Case of Indiana.” Presented at the annual meeting of the Transportation Research Board of the National Research Council, Washington, DC, 1987.

“Dimensions of Abandoned Railroad Right-of-Way in Indiana.” Presented at the annual meeting of the International Right-of-Way Association, Cincinnati, OH, 1986.

“An Assessment of the Geographical Accuracy of the Carload Waybill Sample for State Rail Planning,” with John C. Robbins. Presented at the annual meeting of the Transportation Research Board of the National Research Council, Washington, DC, 1985.

“The Stimulation of Regional Rail Traffic Growth Through Subsidy: An Assessment.” Presented at the annual meeting of the Association of American Geographers, Washington, DC, 1984.

“Considerations in the Application of Benefit Cost Analysis to State Rail Projects.” Presented at the annual meeting of the Transportation Research Board of the National Research Council, Washington, DC, 1980.

“State Rail Planning: Status, Prospects, and Research Needs.” Presented at the Annual Meeting of the Transportation Research Board, Washington, DC, 1977.

“Implementation of the State Rail Plan.” Presented at the Regional Rail Planning Seminars of the Federal Railroad Administration, U.S. Department of Transportation, 1976.

“The Indiana Rail Plan: A Case Study.” Presented at the Regional Rail Planning Seminars of the Federal Railroad Administration, U.S. Department of Transportation, 1976.

“Geographic Research and Regional Transport Policy.” Presented at the Lilly Foundation Geography Conference, Bloomington, IN, 1976.

“Changing Service Levels as an Alternative to Rail Line Abandonment: The Case of On-Branch Costs,” with Bruce W. Pigozzi. Presented at the West Lakes Regional Meeting of the Association of American Geographers, 1975.

“The Impacts of Rail Abandonment.” Presented at the 68th Meeting of the National Tax Association-Tax Institute of America, Houston, TX, 1975.

“Impacts of Rail Abandonment in the Midwest and Northeast.” Panel discussion topic at the 5th Annual Legislative Conference on Transportation of the New York State Select Legislative Committee on Transportation, New York, NY, 1975.

“Rail Reorganization in Indiana.” Presented at the Annual Meeting of the Indiana Planning Association, Indianapolis, IN, 1975.

“A Preview of the Indiana State Rail Plan.” Presented at a meeting of the Industrial Traffic and Transportation Association of Indiana, Indianapolis, IN, 1975.

“Acquisition and Subsidy as Alternatives for the Preservation of Local Rail Services.” Presented to the National Task Force on Rail Abandonment of the Council of State Governments, Burlington, VT, 1975.

“National Rail Planning and Policy and the Issue of Cross-Subsidies: A State's Perspective.” Presented at the annual meeting of the Association of American Geographers, Milwaukee, WI, 1975.

“Restructuring Indiana's Rail System.” Presented at the L.L. Waters Transportation Conference, Indiana University, 1975.

“The Potential for Future Rural Economic Development and Railroad Abandonment.” Presented to the National Task Force on Rail Abandonment of the Council of State Governments, Chicago, IL, 1975.

“Energy and Other Trade-offs in Rail and Truck Shipments and Their Affect on Industrial Location.” Presented at the Annual Meeting of the American Association for the Advancement of Science, New York, NY, 1975.

“Geographical Network Analysis and Regional Rail System Planning.” Presented at the West Lakes Meeting of the Association of American Geographers, 1974.

“Progress and Future Research in Transportation Geography.” Presented at the Annual Meeting of the Association of American Geographers, Atlanta, GA, 1973.

“The 1972 National Transportation Needs Study in Indiana: Methodology and Findings.” Presented at the 58th Annual Road School, Purdue University, West Lafayette, 1972.

“An Examination of the Impact of the Interstate Highway System on Airport Viability: The Case of Indiana.” Presented the West Lakes Annual Meeting of the Association of American Geographers, 1971.

“The National Transportation Needs Study in Indiana: A Review.” Presented at the Annual Meeting of the Indiana Planning Association, Indianapolis, IN, 1971.

“The Utility of the Gravity Model and Estimates of Its Parameters in Commodity Flow Studies.” Presented at the Annual Meeting of the Association of American Geographers, Boston, MA, 1971.

“Trip Distribution and Urban Spatial Behavior.” Presented at the East Lakes Regional Meeting of the Association of American Geographers, East Lansing, MI, 1969.

“Locational Classification of American Industries I. A Grouping Procedure for Binary Data,” with Harold H. McCarty. Presented at the West Lakes Regional Meeting of the Association of American Geographers, Terre Haute, 1967.

External Service (Professional)

Organized and chaired the New Scholars Conference sponsored by the National Science Foundation, Indiana University - Bloomington, May 15-16, 2006.

Member of the Board of Editors, *Growth and Change: A Journal of Urban and Regional Policy*, Blackwell Publishing, 2005-

Taught part of a course on Freight Forecasting for the Indiana Department of Transportation and the National Highway Institute, Indianapolis, July 2005.

Served on a panel to review the Indianapolis Travel Demand Model for the Indianapolis Metropolitan Planning Organization, Indianapolis, July 2005.

Organized a session of STELLA/STAR papers for the Annual Meeting of the Transportation Research Board, January 2005.

Chaired session of the Topical User’s Meeting of the STELLA/STAR project in Bologna, Italy, July 2004.

Chaired the North American side of the STELLA/STAR video conference at George Mason University in Fairfax, Virginia, June 2004.

Served on discussion panel by invitation on the topic: “Re-exploring the Interface between Economic Geography and Transportation Geography,” at the Centennial Meeting of the Association of American Geographers, Philadelphia, March 2004.

Organized and chaired two sessions of STAR/STELLA papers for the Centennial Meeting of the Association of American Geographers, Philadelphia, March 2004.

Chaired the Focus Group 1 STELLA/STAR meeting at NSF in Arlington, VA, January 2004

Organized a session of STAR/STELLA papers for the Annual Meeting of the Transportation Research Board, January 2004.

Member of the Steering Committee for a National Symposium on Transportation and Sustainability. Sponsored by the National Research Council and the Transportation Research Board, 2003-2004.

IU Representative to the Purdue University Project to create a multi-university transportation research center in Indiana, 2003-2004.

Member, Ad Hoc Committee to Identify Transportation Research Needs of the State of Indiana, 2003-2004.

Organized a session of STAR/STELLA papers for the Annual Meeting of the Transportation Research Board, January 2003.

Organized International Research Session for the Transportation Research Board Meeting to be held January, 2003.

Chaired MoVe Forum session, held in Venice, Italy, October 24, 2002. Interviewed by Italian Radio following session.

Chaired session of Focus Group-1 STELLA session, Siena, Italy, June 2002

National Cooperative Highway Research Program (NCHRP), Research Project Panel Meeting for Project 8-41, Methods of Environmental Justice Analysis, Washington, D.C., June 2002-2004.

Organizing Committee for MoVe (Mobility Venice) Conference of the Automobile Club D'Italia, the FIA Foundation, and the Università Degli Studi di Milano, Milan, June 2002

Served on panel session of the Focus Group-5 STELLA session, Helsinki, Finland, May 2002.

Chaired first session of the STELLA Thematic Transportation Network Genesis Meeting, Amsterdam, Netherlands, February 2002

Chaired and drafted assessment of the NASA/DOT project on Applications of Remote Sensing in Transportation, Santa Barbara, CA, February 2002

Chaired business meeting of the Committee on Social and Economic Factors in Transportation, Transportation Research Board, Washington, D.C., January 2002

National Cooperative Highway Research Program (NCHRP), Research Panel Meeting for Project 8-42, Freight Railroad Solutions to Congestion, Washington, D.C., January 2002- .

Chairman of the Social and Economic Factors Committee of the Transportation Research Board, National Research Council, National Academy of Sciences. Third year of a second, three year term 1999-2002.

Member of the Board of Editors, *International Journal of Environment and Pollution*, Inderscience, UK, 2000 -

Member of the Board of Editors, *International Journal of Global Environmental Issues*, Inderscience, UK, 2000-

Member of the Steering Committee of the National Consortium on Remote Sensing in Transportation (Infrastructure), U.S. Department of Transportation, 2000-2003

Member of National Cooperative Highway Research Program (NCHRP) Project Panel on Environmental Justice, 2000-2003.

Member, Sustainable Transport Task Force of the Transportation Research Board, National Research Council, March 1999-

Organizer and Co-Chairman of the Conference on Social Change and Sustainable Transport, University of California at Berkeley, Berkeley, CA, March 1999. Funded by the National Science Foundation and the European Science Foundation.

Member, Steering Committee for the Conference on Information Requirements for Transportation Economic Analysis, National Research Council, Transportation Research Board, 1999.

Editorial Advisory Board of the *Journal of Transport Geography*, Elsevier Science, Ltd., London, 1998 - .

Organized and chaired session on “Emerging Social Issues in Transport” for the summer meeting of the Transportation Research Board, Seattle, Washington, July 1998.

Chairman of session on “Welfare to Work” at the 77th Annual Meeting of the Transportation Research Board, Washington, DC, January 1998.

Chairman of session on “Social Impacts and Costs” at the 77th Annual Meeting of the Transportation Research Board, Washington, DC, January 1998.

Organizer and Chairman, NSF-ESF International Research Programs, Association of American Geographers, 1997

Organizer, NSF-ESF International Research Programs, Transportation Research Board, 1997

Chairman, Social and Economic Impacts, Conference on Environmental Research Needs in Transportation, Transportation Research Board, National Research Council, Washington, DC, November 1996.

North American Chairman, National Science Foundation, -European Science Foundation Committee on Transportation Research, 1996-

Chairman, Social and Economic Factors in Transportation Committee of the Transportation Research Board, National Research Council, 1996-1999, 1999-

North American Corresponding Member, Royal Geographic Society - Institute of British Geographers, 1996 - 1998

North American Associate Editor, *Journal of Transport Geography*, July 1, 1995 - July 1, 1998, for Elsevier Science Ltd.

Member, Committee on Social and Economic Factors, Transportation Research Board, National Research Council, 1994-

Presented information on **ALTERNAT**, a computer program for evaluating transportation alternatives, at the State Transportation Forum, Indianapolis, November 1994.

Member, Committee on Transportation Data, Transportation Research Board, National Research Council, 1994-2000

Chairman and Organizer, Geographical Analysis in the Public Sector, Operations Research Society of America, Chicago, 1993.

Chairman and Organizer, Geographic Information Systems and Transportation Panel, Association of American Geographers, Atlanta, Ga., 1993

Chairman, Transportation Geography Session, Annual Meeting of the Association of American Geographers, Atlanta, Ga., 1993

National Science Foundation, Proposal Review Panelist, 1992.

Editorial Advisory Board of the *Journal of Transport Geography*, Butterworth (now Elsevier Science, Ltd., London, 1992 - 1995.

Interviewed by *Traffic World* for cover story on Global Warming and Transportation. Issue of March 16, 1992, p. 13.

Presentation before the Indiana Port Commission on Commodity Flows of Indiana, Indianapolis, 1992

Advised NIBCO Industries of South Bend on a distribution problem, 1992

Advised Thomson (RCA) Industries on a transportation problem, Indianapolis, 1992

Presentation before the Indiana Coal Forum on Coal Transportation to and from Indiana, Indianapolis 1991

Member, Board of Directors, Mathematical Models and Quantitative Methods Specialty Group, Association of American Geographers, 1991-1993.

Member (elected), Board of Directors, Mathematical Models and Quantitative Methods Specialty Group, Association of American Geographers, 1991-1993

Nominated for West Lakes Regional Division Councilor of the Association of American Geographers, 1990 (not elected)

Chairman, Transportation Geography Session, Annual Meeting of the Association of American Geographers, Toronto, Ontario, Canada, 1990

Workshop Director, Regional Economic Development Conference, Indiana University, Indianapolis, 1989

Chairman and Organizer of Transportation Geography Session, Annual Meeting of the Association of American Geographers, Baltimore, MD 1989

Chairman, Transportation Geography Specialty Group, Association of American Geographers, 1980-1982; 1988-1990

Member, Committee on the State Role in Rail Transport, Transportation Research Board, National Research Council, 1976-1979, 1985-1988, 1988-1991, 1991-1994, 1994 -

Advisor on Research and Planning Needs, Indiana Department of Transportation, 1989

Advisor on Research Needs, Railroad Division, Indiana Department of Transportation, 1989

Chairman, Economic Development Innovations, Regional Economic Development Conference, April 1988.

Chairman, Transportation Geography Specialty Group of the Association of American Geographers, 1988-1990.

Chairman, State Rail Planning Issues Session, Annual meeting of the Transportation Research Board, National Academy of Sciences-National Research Council, 1986.

Member, Committee on the State Role in Rail Transport, Transportation Research Board, National Academy of Sciences-National Research Council, 1985-1991

Testimony before the Interim Study Committee on Abandoned Railroad Land in Indiana, Indiana General Assembly, 1985

Chairman and Organizer of Transportation Geography Session, Annual meeting of the Association of American Geographers, 1982

Member, Transportation Advisory Committee, Indiana Department of Transportation 1982-1989

Chairman, Transportation Geography Specialty Group, Association of American Geographers, 1980-1982

Member, Commercial Air Service Advisory Committee for the Aeronautics Commission of Indiana, 1979-1980

Member, Committee on the State Role in Rail Transport, Transportation Research Board, National Academy of Sciences-National Research Council, 1976-1979

Member, State Rail Tax Advisory Group, Council of State Governments, Lexington, KY, 1976-1977

Chairman, Transportation Geography Session, Annual Meeting of the Association of American Geographers, Kansas City, 1976

Director of Rail Planning for the Public Service Commission of Indiana, February - November 1975

Testimony before the Railway System Plan and Abandoned Property Interim Study Committee, Indiana State Legislature, regarding railroads and rail planning, August 1975

Testimony before the Indiana House Governmental Reorganization Committee regarding formation of a state Department of Transportation, July 1975

Member, Grain Rate Task Force (Ex Parte 270, Sub. 9) Indiana Department of Commerce, 1975

Drafter of Indiana Senate Bill 228, "State Rail Preservation Act," signed into law by Governor Otis Bowen, May 5, 1975

Testimony before the Surface Transportation Subcommittee of the U.S. Senate on the United States Railway Association's **Final System Plan**, with several other state representatives, Washington, DC June 1975.

Testimony before the Rail Services Planning Office of the Interstate Commerce Commission regarding proposed abandonment of the Erie Lackawanna Railroad (entire) in the state of Indiana for the Public Service Commission of Indiana, Decatur, IN, June 1975

Testimony before the Rail Services Planning Office of the Interstate Commerce Commission regarding the United States Railway Association's **Preliminary System Plan** and Its Impact on Indiana for the Public Service Commission, Indianapolis, March 1975

Director of Rail Planning, Public Service Commission of Indiana, 1975

Member, Governor's Representative to the Conference of States on Regional Rail Reorganization, 1975

Chairman and organizer of a session to draft model state railroad preservation legislation for the Council of State Governments, Washington, DC, 1974

Member, Technical Advisory Panel, United States Railway Association, 1974-1975

Member, Rail Task Force, Office of the Governor, State of Indiana 1974-1975

Member, Transportation Subcommittee of the Population Task Force of the Indiana Senate Environmental and Ecology Committee, 1973-1974

Testimony before the Rail Services Planning Office of the Interstate Commerce Commission regarding the Impacts of the Regional Rail Reorganization (3R) Act of 1973 on the State of Indiana, for the Office of the Governor, State of Indiana, March 1974

Member, Nominating Committee, Mid-Continent Regional Science Association, 1974

Presented position paper on "Impacts of Residential and Commercial Development in the Area of Route 37 Bypass on the Westside of Bloomington," to the Environmental Commission, City Plan Commission, and the Industrial Development Commission, Bloomington, July 1973.

Appeared before City Council of the City of Bloomington as a Transportation Expert to advise members on transit needs. Five sessions, one on WFIU TV and one on WTTS Radio, January-July, 1973

Testimony before the Roads and Streets Committee of the Indiana State Legislature on a pending bill to inventory urban public transit in the cities of Indiana, March 1973

Chairman, Urban and Regional Flow Analysis Session, Mid-Continent Regional Science Association, Bloomington, 1972

Editor, *Regional Science Perspectives*, Volumes 3 and 4, published by the Mid-Continent Regional Science Association, 1972-1974

Testimony before the Mass Transportation Committee of the Indiana State Legislature on Mass Transportation Needs in Indiana, June 1971

Member, Program Committee of the Mid-Continent Regional Science Association, 1971-1972

Chairman, Student Paper Session, West Lakes Regional Meeting of the Association of American Geographers, Dekalb, IL, 1970.

Miscellaneous Publications

“The Berkeley Transatlantic Research Conference,” with Peter Nijkamp. *ESF Communications* (The journal of the European Science Foundation), 1999.

“Conference Report on the Transport Sessions at the AAG Meeting in Fort Worth Texas, 1997,” with Andy Goetz, Michael Kuby, and Bruce Ralston, *Journal of Transport Geography*, Vol. 5, No. 3, 1997, pp. 221-223.

Several pieces for *SEFTalk*, newsletter of the social and economic factors in transportation committee of Transportation Research Board during 1996.

“Conference Report on Symposium on Challenges and Opportunities for Global Transportation in the 21st Century,” *Journal of Transport Geography*, Vol. 4, No. 2, 1996, pp. 142-144.

“Conference Report on Transportation Research Board Meeting, 1994,” *Journal of Transport Geography*, Vol. 2, No. 2, 1995, pp. 146-147.

“Memorial: Thomas Frank Barton, 1905-1985,” *Journal of Geography*, Vol. 85, No.1, 1986.

Consulting Activities

CSX Railroad Corporation, 1999

Cambridge Systematics, Cambridge, MA, 1996-1997

Booz Allen Hamilton, San Francisco, CA, 1995-1997

Penn Central Transportation Corp., (now American Premier Underwriters), Philadelphia, PA, 1994-2000

Pittsburgh and Lake Erie Railroad, Pittsburgh, PA, 1985

George Washington University, Washington, DC, 1977

Federal Railroad Administration, U.S. Department of Transportation,
1976-1977

Consolidated Rail Corporation, Philadelphia, PA, 1976-1977

Office of the Governor, State of Arkansas, Little Rock, AR, 1976

United States Railway Association, Washington, DC, 1976

Council of State Governments, Lexington, KY, 1975

Rail Division, Public Service Commission of Indiana, Indianapolis,
IN, 1974-1975

Indiana University Administration and Committees (engrossed)

Chairman, Department of Geography, 2003-2007

Member, Search and Screen Committee, International Studies
Program Faculty, 2003-2004

Undergraduate Advisor, Department of Geography, 2003 - 2005

Application Review Committee, Wells Scholars Program, 2000-2005

Director, Urban Studies Program, Bloomington Campus, 1998 -
1999, 2000- 2001, 2003- 2005.

Director, Graduate Studies, Department of Geography, 1998 - 1999.

Chairman, New Computer Initiatives Committee, Academic
Computing Policy Committee, 1994 - 1996

Chairman, Departmental Computer Planning Program Committee of
the ACPC, 1992 - 1993.

Member, Academic Computing Policy Committee (ACPC), 1992

Member, Committee to Review the Institute for Development
Strategies for Vice President for Research and Dean of the Graduate
School, 1992.

Member, Faculty Board of Review, Bloomington, 1989

Member, Ad Hoc Committee to Review the Proposed PhD of the School of Public and Environmental Affairs, 1988

Member, Search and Screen Committee, Dean of the School of Public and Environmental Affairs, 1987-1988

Member, AMERITECH Board, Regional Economic Development Institute, School of Public and Environmental Affairs, 1986-1991

Chairman, Department of Geography, College of Arts and Sciences, 1985-1989

Chairman, Search and Screen Committee, Director of the Transportation Research Center, School of Business and School of Public and Environmental Affairs, 1985

Acting Director, Transportation Research Center, School of Business and School of Public and Environmental Affairs, 1985

Member, Budgetary Affairs Committee, Bloomington Faculty Council, 1985-1986

Member, Transportation Center Task Force for the School of Business and the School of Public and Environmental Affairs, 1984-1985

Member, Curriculum Committee, College of Arts and Sciences, 1984-1988

Member, Campaign for Indiana, Departmental Representative, 1985

Member, Geography-Geology Unit Committee, Bloomington Faculty Council, 1984

Member, Subcommittee on Campus Beauty, University Heritage Committee, 1982 - 1988

Member, Transportation and Parking Committee, Bloomington Faculty Council, 1981-1982

Member, Faculty Affairs Committee, Bloomington Faculty Council, 1981-1982

Member, Student Affairs Committee, Bloomington Faculty Council, 1981-1982

Member, Bloomington Faculty Council, 1981-1982

Program Coordinator, Regional Analysis and Planning Program, Department of Geography / School of Public and Environmental Affairs, 1979-1982

Chairman, Urban and Regional Analysis Faculty, School of Public and Environmental Affairs, 1976-1978

Director, Center for Urban and Regional Analysis, 1973-1979

Member, Administrative Council, School of Public and Environmental Affairs, 1973-1979

Chairman, University Committee for Urban Affairs, 1973-1979

Member, Executive Council, University Committee for Urban Affairs, 1973-1979

Chairman, Transportation and Parking Committee, 1972-1974

Director, Graduate Program, Department of Geography, 1969-1971

Member, Curriculum Committee, Social and Behavioral Science Division, College of Arts and Sciences, 1969-1970

Graduate Advising - Committee Chairperson

Bradley Lane, "An Exploratory Analysis of the Influence of Gasoline Prices on Public Transit: Evidence from U.S. Metropolitan Areas," Ph.D., 2010.

Takatsugu Kobayashi, "An Analysis of the Relationship between Urban Form and the Length of Commute Using Centographic Measures," Ph.D., 2008.

Bradley Lane, "Plains, Trains and Automobiles: Land Use, Rail Transit and Urban Travel in Selected U.S. Cities," M.A., 2005.

Noriyuki Sato, "The Hub and Spoke System: Implications of Route Structure and Flight Frequency on Travel Time and Consumer Costs of Air Travel," M.A., 2001

Danielle Longebone, "The Impact of Household Responsibility Characteristics on Working Women's Commute Times," M.A., 2000

Jirong Xie, "A Neural Network Approach to Modeling and Predicting Intercity Passenger Flows," Ph.D., 2000

Garth Banninga, "Static and Dynamic Analysis of Average Worktrip Travel Times for a Large Set of U.S. Cities," Ph.D., 1997

Saad Aljarad, "Disaggregate Mode Choice Modeling for Intercity Non-Business Travelers in the Saudi Arabia-Bahrain Corridor," Ph.D., 1993

Stefan Arredondo, "Railroad Independence in Southern Africa: The Case of the Southern African Development Coordination Conference," MA, 1992

Saad Aljarad, "Modeling the Spatial Distribution of Japanese Passenger Cars in the United States in 1984," MA, 1988

Ahmad Khashman, "Air Service Reenetion and Abandonment: A Discriminant Analysis," PhD, 1987

Mohammad Al-Mogarry, "Modal Choice Elasticities and Cost of Misallocation of Freight Transportation on the Riyadh-Dammam Corridor," PhD, 1986

Robert N. Martin, "The Spatial Elasticity of Freight Flows," PhD, 1984

Manuel De Alba, (paper option) MA, 1984

Rebecca Allen, (paper option) MA, 1983

Daniel C. Knudsen, (paper option) MA, 1981

John C. Robbins, "Routing Hazardous Materials Shipments," PhD, 1981

David C. Prospero, PhD, "Transit Service Provision: A Route and Zonal Analysis of System Performance," 1978

Gaafar El Shaygi, MA, "Structure of Commodity Flows in the U.S.A. and Utility of Dyadic Factor Analysis," 1978

Blanche B. Balzer, "The Measurement of Transit Network Effectiveness: An Evaluation Methodology," MA, 1978

Wesley N. Redfield, "The Effects of Alternative Optimizing Criteria and Urban Morphology on Rapid Transit Network Structure and Performance," PhD, 1976

Robert N. Martin, MA, "The Urban Demand for Travel: An Abstract Mode Approach," 1973

James F. Runke, MA, "An Index of Spatial Mobility," 1972

Joseph P. Dearing, MA, "A Delimitation Model for Present and Future Airport Service Areas," 1972

Wesley N. Redfield, "A Comparison of the Gravity and Preferential Equilibrium Models for Urban Travel," MA, 1972

Antonio Tebesceff, (paper option) MA, 1972

Deborah R. Logan, MA, "Changes in the Spatial Distribution of Meat Packing Plants in the United States, 1939-1965," 1971

Jerry L. Williams, (paper option) MA, 1971

Nora C. Huang, MA, "An Examination of the Temporal Stability of the Gravity Model," 1971

Mohammad Hemmasi, "The Determinants of Inter-Provincial and Urban Migration in Iran," PhD, 1971

Harry L. Seyler, "An Areal Location Model of Kansas and Pennsylvania-Area Manufacturing," PhD, 1971

George T. Britton, “The Effects of Circuitry on Urban Traffic Flow,”
MA, 1971

Burkhard Ortmann, (paper option) MA, 1970

Bruce W. Pigozzi, “Optimal Utilization of Ohio’s Miami Valley
Hospitals,” MA, (Miami University), 1970

Graduate Advising - Member of Committee

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