

**KINGSLEY EDWIN HAYNES**

Dean, School of Public Policy  
Ruth D. and John T. Hazel, MD Faculty Chair  
and Eminent Scholar  
Professor, Decision Sciences, Geography and Public Affairs

George Mason University Fairfax, VA 22030-4444  
Tel: (703) 993-2280 Fax: (703) 993-2284  
E-mail: [khaynes@gmu.edu](mailto:khaynes@gmu.edu)

Professor Haynes joined George Mason University as Graduate Dean (1990), serving 6,000 graduate students and a graduate faculty of 300. As the inaugural Dean of the School of Public Policy (2000) at George Mason University, Dr. Haynes has led the School's growth to its current faculty of 75, 150 PhD students and 800 MA students in five programs and a total staff of 350. External grants and contracts account for over half of the School's \$20 million yearly budget. Besides its academic and executive education programs, the School manages the University's external outreach program to business and government through the Mason Enterprise Center in support of regional economic development.

Dr. Haynes' academic interests include transportation and telecommunication infrastructure investment, regional economic development, and analytic modeling for decision support.

**EDUCATION**

- B.A. Western Michigan University  
Kalamazoo, MI, (History-Hons., Geography, Political Science)  
Honors Degree: Thesis Projects; "The German-Poland Borderlands as a Micro-cosmos of the Teutonic-Slav Movements" and "The Depersonalization of Early Twentieth Century European Society"
- M.A. Rutgers University  
New Brunswick, NJ (Geography)  
Thesis: "An Analysis of Inter-Metropolitan Migration: Tests on the Distance and Intervening-Opportunity Hypotheses"
- Ph.D. The Johns Hopkins University  
Baltimore, MD (Geography and Environmental Engineering)  
Dissertation: "The Distribution and Arrangement of Urban Structure and Spatial Change"

## **PROFESSIONAL EXPERIENCE**

Ruth D. and John T Hazel, MD Faculty Chair in Public Policy, George Mason University, Fairfax, VA, 2005 -

Eminent Scholar, George Mason University, Fairfax, VA, 2005 -

Dean, School of Public Policy, George Mason University, Fairfax, VA, 2000 -

Director, The Institute of Public Policy, George Mason University, Fairfax, VA, 1990 - 1999

Dean, Graduate School, George Mason University, Fairfax, VA, 1990-93

University Professor of Public Policy, George Mason University, Fairfax, VA, 1993 - 2005

Professor, Boston University, Boston, MA, 1987-1990 (Chair, Department of Geography, 1987-1990); (Chair, Provost's Public Policy Program, 1987-1989)

Professor, School of Public and Environmental Affairs, Indiana University, Bloomington, 1978-87 (Director, Center for Urban and Regional Analysis, 1979-85); (Chairman, Urban, Regional Analysis and Planning Faculty, 1979-87); (Director, Regional Economic Development Institute, 1985-87)

Project Specialist, Director Middle East Office of Resources and Environment; Ford Foundation, Cairo, Egypt, 1976-78

Associate Professor, The Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, 1974-78

Assistant Professor, The Lyndon B. Johnson School of Public Affairs and Department of Geography, University of Texas at Austin, 1970-74

Lecturer: Geography, McGill University, Montreal, Canada, 1968-70; Johns Hopkins University, Baltimore, MD, 1967 (Fall); University of Maryland, Baltimore Co., MD, 1966-67 (part-time); Memorial University of Newfoundland, St. Johns, Newfoundland, 1966 (Summer)

## **TEACHING EXPERIENCE**

### Lower Division:

- Principles of Geography
- Physical Geography
- Geography of Retail Location\*
- Industrial Location
- Urban Strategies
- Urban Structure and Policy

### Upper Division:

- Location Theory
- Economic Geography
- Quantitative Geography\*
- Urban Analysis
- Modern American City
- Urban and Regional Planning

### Graduate:

- Economic Geography Seminar
- Issues and Research in Geography\*
- Urban Systems Seminar
- Advanced Quantitative Analysis\*
- Policy Research Projects\*\*
  - Municipal Land Use Policies Seminar, Nuclear Power Plant Siting Seminar, Higher Education Planning Seminar, Coastal Zone Land Use Policy Seminar, Lower Rio Grande Community Development Seminar, Coastal Dependent-Energy Intensive Industries Seminar, Regional Water Supply Planning Seminar
- Environmental and Social Systems
- Regional Economies in Global Competition\*
- Environmental Planning\*\*
- Metropolitan Development\*
- Analytic Methods for Planning and Policy Analysis\*\*
- Regional Analysis and Planning\*
- The Planning Process\*\*
- Planning Workshop
- Macro Policy\*\*

\* New courses taught for the first time in the relevant institution

\*\* Interdisciplinary courses

## ADMINISTRATIVE EXPERIENCE

1. Dean, School of Public Policy (Previous Director, Institute of Public Policy), George Mason University, Fairfax, VA (1990- )

This university-wide graduate degree granting School (SPP) was inaugurated as an Institute in 1991. It now has one hundred and fifty doctoral students enrolled and has graduated over 100 Ph.D.'s. External funds account for two thirds of the School's \$20,000,000 budget in 2004. External research funding has grown from \$60,000 in 1991 to over \$10,000,000 annually by 2004 funded by Federal grants and contracts (40%), private sector contracts and subcontractors (40%) and foundations and state local government. The School is staffed by 70 faculty (5 endowed chairs, 6 university professors), 10 partnership faculty and 15 research faculty. Twenty-five senior fellows and research faculty plus ten post-docs are also part of a staff of 300. The School houses nine research centers including two research laboratories and a US DOT National Center of Excellence. Academically SPP houses five MA programs including Masters in International Commerce and Policy, Public Policy, Transportation Policy Operations and Logistics; Organization and Knowledge Management; and Peacekeeping Operations and Policy with a total MA enrollment exceeding 800 students and 2000 alumni. The School also houses the University's (\$6,000,000) Enterprise Development outreach center, four telecommunicating centers, two small business incubators, an international incubator, a procurement and technical assistance program, a women's entrepreneurship center, and coordinates Virginia's statewide SBDC program (24 centers)

2. Dean, Graduate School, George Mason University, Fairfax, VA (1990-93)

During this period, graduate enrollments increased by 50%, doctoral programs doubled, and three new degree granting graduate Institutes were founded. In 1991, more first year graduate students were admitted than freshman and in 1993 GMU/Fairfax became the second largest single campus for graduate enrollments in the State of Virginia. A graduate student organization was founded in 1993. At the same time the Graduate School was reorganized and functionally decentralized to the various schools and colleges and under my direction operationally dissolved in July 1993. Remained chair of the University's Graduate Council (1990-1995) and continued to serve on the Council until 2000. The Council sets University graduate policies and supervises their implementation.

3. Chairman, Department of Geography, Boston University, Boston, MA (1987-1990)

The Department housed two research centers-The Center for Remote Sensing and The Center for Energy and Environmental Studies-and two research laboratories-The Geographic Information Systems Laboratory and The Cartographic and Computer Graphic Laboratory. External research budget grew from \$95,000 in 1987 to \$3,000,000 in 1990.

4. Chairman, Provost's Public Policy Program, Boston University, Boston, MA (1987-1990)

The purpose was to organize faculty and curriculum for a new comprehensive program of public policy, public management and administration and public affairs.

5. Director, Regional Economic Development Institute (1985-1987)

## ADMINISTRATIVE EXPERIENCE (Continued)

This was a freestanding research and public service center under the Dean of Research and Graduate Development for Indiana University. It was inaugurated in 1985 by the Trustees of Indiana University as a response to state needs. It was organized as a multidisciplinary center with a charter to integrate faculty interests across campus in regional development and to provide an international dimension to regional development activities; external research budget grew from \$120,000 to \$900,000 in two years.

6. Director, Center for Urban and Regional Analysis (1979-1985).

This was a research center within the School of Public and Environmental Affairs.

The Center's base research budget was \$50,000. Additional research grants and contracts rose from \$20,000 in 1979 to a high of \$400,000 in 1984. This support was divided among federal grants, federal contracts and state and municipal contracts.

7. Chairman, Urban, Regional Analysis and Planning Faculty, statewide (1979-1987).

During this period the faculty grew from 17 to 30 on five campuses in clusters (3-14).

The faculty managed an undergraduate program-BSPA), a professional masters program-MPA, and a doctoral program. This faculty was active in research, publishing and public service at the local, state and federal levels of government. An undergraduate Certificate in Urban Studies and a M.A. and Ph.D. graduate minor in Urban Affairs were also offered.

8. Indiana University, Chairman, Urban Advisory Council (1979-1985); Faculty Council, Bloomington, (1981-1983); Member, Faculty Affairs Committee (1981-1982); Member, University Budgetary Affairs Committee (1982 -1983).

9. School of Public and Environmental Affairs; Chairperson and Organizer, Statewide Faculty Seminar (1981-1982); Chairperson, Statewide Committee on Teaching and Experiential Learning (1981-1982); Director, Ph.D. Program in Regional Analysis and Planning (1980-1987); Member, Academic Council (School's Academic Governing Council) (1979-1987); Member, Building Dedication Committee, Indianapolis, 1981, Bloomington, 1982; Member, Statewide Promotion and Tenure Committee 1982-1984; Member and Vice-Chair, Dean's Policy Committee 1985-1986) Member Environmental Science Faculty (1978-1987); Member, Environmental Systems Applications Center (1979-1987)

10. Director, The Ford Foundation Middle East Program in Resources and Environment, Cairo, 1976-1978.

Reported direct to the Vice-President for Resources and Environment, New York. Managed three million dollars of training and research programming primarily in Egypt, Jordan and the Sudan.

11. Director, Joint Center for West Texas Environmental Studies (University of Texas at Austin and Texas Tech University, Lubbock, TX).

Coordinated, supported and funded twenty faculty grant and contract activities across two universities and three colleges 1973-1976.

**ADMINISTRATIVE EXPERIENCE (Continued)**

12. Co-Principal Investigator, Taskforce Steering Committee; Director of Taskforce on Land Use and Economics.

National Science Foundation (RANN) sponsored project on "Texas Coastal Zone Management," supported and coordinated ten graduate students and four faculty 1972-1976.

13. Assistant Project Manager, Van Ginkel Associates, Architects and Planners, Montreal, Quebec.

Universite du Quebec Trois Riviere Campus Planning Project; Prince Edward Island Education Consolidation Program; U.S. Department of Transportation Community Airport Economic Development Project; Pahang Tenggara Economic Development Project, Malaysia (1968-1972).

14. Research Director, McGill University, Urban Studies Institute, 1969.

## **HONORS**

Phi Sigma Omega, Fellow of the Public Policy Organization (2008)

Gold Medal Award, Grosvenor Center, Texas State University (2007)

Fellow, Regional Science Association International (2006)

Fellow: Western Regional Science Association (2004)

Outstanding Alumni Award, Western Michigan University (2004).

Edward L. Ullman Transportation Award, Association of American Geographers (2003).

Fellow: National Academy of Public Administration (2002).

The James R. Anderson Medal for Applied Research, The Association of American Geographers (2000).

Boyce Distinguished Service Award, North American Regional Science Association (1997).

Special Citation for Environmental Work in Egypt, The Conservation Foundation, (with S. M. Hakim for a study on public policy and urban waste management in Cairo) (1983).

CINE Golden Eagle Award, Council on International Nontheatrical Events (for producing "The Magic Valley"-a thirty minute film on environmental problems of Mexican-American migrant settlements in South Texas) (1977).

## **OTHER AWARDS, RECOGNITIONS AND DISTINCTIONS**

Faculty Evaluation of Administrators (Faculty Senate Report) (5 pt scale)

2004-2005: Haynes (ranked 1<sup>st</sup>) score of 4.9 (mean = 3.52)

2003-2004: Haynes (ranked 1<sup>st</sup>) score of 4.6 (mean = 3.63)

2002-2003: Haynes (ranked 2<sup>nd</sup>) score of 4.5 (mean = 3.82)

Founding Dean, School of Public Policy, George Mason University, Fairfax, VA (2000 -).

Private Audience with the Emperor and Empress of Japan in recognition of work building regional development programs in Asia and the Pacific (1996).

Founder and first Director, Regional Economic Development Institute, Indiana University (1985).

Founder of the Institute for Environmental Studies at the University of Khartoum, (1978).

Co-Founder and first Co-Director of the Joint Center for West Texas Environmental Studies (1972).

Founding Faculty of the LBJ School of Public Affairs (1971).

Isaiah Bowman Doctoral Fellowship, Johns Hopkins University (1965-1968).

National Social Science Honor Society (Phi Gamma Mu) (1965).

**HONORS**

M.A. Graduate Teaching Assistantship, Rutgers University (1964-1965).

Workshop Fellowship, Inter-American University, San German, Puerto Rico (1963)

Undergraduate Scholarship (1961-1964)

## **PROFESSIONAL ORGANIZATION INVOLVEMENT**

### Regional Science Association International

- Member Long Range Planning Committee (1998- present)
- Chair Long Range Planning Committee (1995-98)
- President (1995-1997)
- Vice President (1994)

### Western Regional Science Association

- Board of Governors (1988 – 1994).
- President (1991).
- President-Elect (1990)
- Vice President (1989)

### North American Regional Science Association

- Member: Board Conference Organization (1994-2000).
- Co-hosted North American Regional Science Conference, Arlington, VA (with U.S. Dept. of Commerce, Bureau of Economic Analysis, 1996)

### North East Regional Science Association

- Executive Panel for Organizing & Planning (1989)

### American Association for the Advancement of Science

- Section Board on Social, Economic and Political Science, Appointed (1987-1989, reappointed 1989-1991).

### The Association of American Geographers

- Fleming Lecturer in Transportation: at the national meeting (Philadelphia, 2004).
- National Member: Committee on Society and Public Policy (1972-73)
- Member: Anderson Medal Selection Committee (2000-present)
- Member: Applied Geography Awards Committee (2004-2005)
- Organizer and Planner for the New England-St. Lawrence (NESTVAL) Meeting at Boston University (1989)

### Association for Public Policy Analysis and Management Association

- Host, Annual Conference, Washington, DC (1993)
- Nominating Committee (1991-1992)

### International Geographical Union Commissions – Geography and Public Policy

- Applied Geography member and Congress organizer, 2000-present

### National Academy of Sciences/ National Research Council,

- Research Member “The Ecological Impact of Road Density,” 2002-2005

### Organizational Memberships:

Association for Public Policy Analysis and Management;  
American Geographical Society;  
American Academy of Political and Social Sciences;  
Association of American Geographers;  
Regional Science Association International (No. Am., Pacific and Western RSA);  
American Planning Association;

**PROFESSIONAL ORGANIZATION INVOLVEMENT (Continued)**

Urban Affairs Association;  
Population Association of America (1972-1985);  
Association of Canadian Geographers;  
American Association for the Advancement of Science;  
American Public Health Association (1979-1993);  
American Society of Public Administration;  
Operations Research Society of America;  
Scientific Research Society (Sigma Xi)

## **PROFESSIONAL SERVICE**

### National Science Foundation

- Civil Infrastructure Initiative, Social Science Panel (1993).
- Panel on Decision, Risk and Management Science (1985-88)
- William L. Garrison's Steering Committee, "Physical Structure and Function Taskforce," The Institute of Ecology Workshop on Urban Ecosystems (1973)
- Hungarian-U.S. Joint Seminar on Geographical Characteristics of Urban Development, Budapest, Hungary (sponsored by the Hungarian Academy of Sciences and the National Science Foundation) (1974)
- Advisory Team, "Experimental Program to Stimulate Competitive Research," Directorate for Engineering and Applied Science (1980)
- Member: Policy Research and Analysis Division, Advisory Board (1984)
- Member: Scientific Geography Group Steering Committee (1985)
- Member: Decision, Risk and Management Science Advisory Panel (1986-1988)
- Member: Organizing Committee: "Workshop on Public Infrastructure Research" for the Social, Behavioral, and Economic Directorate (1993)
- Member: Organizing Committee: Spatial Technology and Urbanization Conference for NSF's The National Center on Geographical Infrastructural Analysis Baltimore, MD (1996)
- Member: Organizing Committee: Infrastructure Research Needs Workshop (1996)
- Co-Chair: US Delegation to the Joint US/European (NSF/ESF) Workshop on Transportation (Arlington, VA; Strasbourg, France; Lugano, Switzerland) (1996-1997)
- Member: US/Egypt (NSF/Egyptian Academy) Workshop on Research Directions of Joint Projects in Resources and Environment (1997)
- Member: Organizing Committee, North American, Sustainable Transportation Analysis and Research (STAR) network for regional, national and international transportation research collaboration (2000-present)

### Center for Metropolitan Affairs and Public Policy, Policy Advisory Council

- Chair (1979-1982) (Inaugural Chair)

American Council on Education, Council for International Exchange of Scholars (organized by the National Academy of Science for Congressionally funded international exchange programs – includes selection of U.S. Fulbright Scholars); Division of Environmental Sciences and Engineering,

- Committee Chair (1986, 1987).
- Committee Member (1985)

### National Capital Commission (Canadian Federal Government, Ottawa)

- Member: Advisory Board for Long Range Planning and Urban Design (1969)

### Canadian Department of Transport

- Member: Montreal Airport Taskforce, Environment Group (1969)

### Government of Malaysia and the Canadian International Development Agency (C.I.D.A)

- Advisory Economic Planner: The Pahang Tenggara Regional Master Planning Study, Office of the Prime Minister (1970-72)

**PROFESSIONAL SERVICE (Continued)**

City of Bloomington (Indiana)

- Blue Ribbon Committee on Downtown Revitalization and Historic Preservation, Mayoral Appointee (1983-84)
- Chairman: Blue Ribbon Committee on Fringe Development, Mayoral Appointee (1983-84)

Government of Trinidad and Tobago

- Advisor: Ministry of Tourism (1985-1986)

Canadian Regional Economic Development Center, University of Moncton

- Advisor (1986)

Nankai University, Tianjin, China

- Director: Workshop on Regional Planning and Water Management, Ministry of Water Resources and Electric Power and Bureau of Environmental Management (1986)

Society of Management Accountants of Canada

- Member: Focus Review Committee "Implementing Benchmarking" Management Accounting Guidelines (1992)

National Association of Corporate Directors, Washington, DC,

- Member: Blue Ribbon Commission on Executive Compensation (1992-1993)

International Council for Building Research Studies and Documentation Rotterdam, Netherlands

- Co-Coordinator: Commission on Spatial Planning and Infrastructure Development W101 (1997-2000)

The Regional Research Institute, West Virginia University).

- Board Member (2003 - )

International Institute of Energy Conservation (IIEC) an NGO spin-off of the American Civil Engineering Foundation

- Board of Directors (2002 - )

Tsinghua University, Beijing, and East China Normal University Shanghai, People's Republic of China

- Advisory Professor (2004 - )

## SELECTED ACADEMIC LECTURES

Distinguished Lecturer, Colorado College, Colorado Springs (1979).

Distinguished Faculty Lecture Series: University of California, Santa Barbara, May (1983).

Distinguished Faculty Lecture Series: Mini-Course (one week) on Uncertainty in the Management of Regional Water Supplies, University of California, Santa Barbara, 1983

Griffith Taylor Distinguished Lecturer, University of Toronto, December (1985).

Graduate School Distinguished Lecturer, Northern Illinois University, DeKalb, Illinois, November (1985).

Lecturer: Workshop on Public Policy Curriculum and Research, SPEA/I.U. and Erasmus University, Rotterdam, in Bloomington, IN, 1986

University Lectures, Boston University; SUNY Buffalo; University of Southern California; University of Hawaii; University of Leiden, Netherlands; Erasmus University, Netherlands; University of Hamburg, W. Germany 1987

Keynote Speaker, Fifth International Conference on Regional Development and Public Policy, Indianapolis, May (1988).

Distinguished Lecturer, Graduate School, University of Idaho, Moscow, April (1988).

Distinguished Speaker, Arizona Regional Development Association, Tucson, April (1989).

Distinguished Lecturer, Graduate School, University of North Carolina, Greensboro, N.C. (1991).

Keynote Speaker, Southeastern Association of American Geographers, Greensboro, NC, November (1993).

Golledge Distinguished Lecturer, University of California Santa Barbara (1995).

Distinguished Lecturer, University Public Policy Program, University of North Carolina at Chapel Hill (1995).

Keynote Speaker, Mexican Regional Science Association Meeting Toluca, Mexico (May 1996)

Keynote Speaker, World Congress Regional Science Association, Tokyo (1996).

Invited Speaker, Policy Seminar, Office of the Secretary US Department of Transportation (1996).

Golledge Distinguished Lecturer, University of California, Santa Barbara (1997).

**SELECTED ACADEMIC LECTURES (Continued)**

Harriet Simpson Elliot Lecturer, University of North Carolina Greensboro, N.C. (1997).

White House Conference on Aviation Safety and Security, Invited Speaker, (Jan 1997)  
Washington, D.C

Lectures in Honor of Reginald Golledge: Association of American Geographers Meetings  
Pittsburgh, PA, March 2000

Keynote: Sweden – EU Regional Development Program, Uddevalla June 6-8 2002

Invited Presenter of State of Kanataka Parliament, Bangalore, India Mar 4 2003

Keynote Address, International Conference on Conflict, Peace and Development in South Asia,  
National Law University, Jodhpur, India Jan 10 2004

Keynote Address, Conference on Innovation Technology and Regional Science Conference,  
Joint- Sponsor National Institute Public Finance and Policy (NIPFP) and the Institute for  
Integrated Learning in Management (IILM), New Delhi, India Jan 12 2004

Fleming Lecture in Transportation, Keynote: 100<sup>th</sup> National Anniversary Meeting of the  
Association of American Geographers, Philadelphia March 12 2004

Regional Science Association International World Congress, Port Elizabeth, South Africa April  
14-17-2004

Arthur Getis Festschrift San Diego State University, San Diego CA May 7-8 2004

Keynote: Japan Real Estate Science Association Tokyo, Japan May 19 2004

Invited Lecture: Chiba Commerce University, Tokyo, Japan May 20 2004

Keynote: Scandinavian-EU Uddevalla Regional Development Workshop, Fredrikstad, Norway  
June 17-19, 2004

Invited Speaker: Commission on Applied Geography, International Geographical Union, World  
Congress, Glasgow, Scotland August 11-16, 2004

Keynote: International Colloquium of the Pacific RSAI, Tokyo, Japan Sept 2004

Public Lecture upon being named Associate Faculty of East China Normal University: School of  
Natural Resources and Environment, Department of Geography, Shanghai, China (January 2005)

Gosnell University Lecture: Rochester Institute of Technology, Rochester, NY Feb 10 2005

Keynote: Innovation, Dynamic Regions and Regional Dynamics, International University of  
Jonkoping, Jonkoping, Sweden, June 2005

## **EDITORIAL BOARD PARTICIPATION**

Journal of Urban Management (2010-)

Annals of Regional Science: An International Journal of Urban Regional and Environmental Research and Policy (1988-).

Applied Geography (1996-1998).

Computers, Environment and Urban Systems: An International Journal (1988).

Geographical Analysis: An International Journal of Theoretical Geography (1991- ).

Geographical and Environmental Modeling (1995- 2000).

Geographical Systems: The International Journal of Geographical Information, Analysis, Theory and Decisions, (1994- ).

International Journal of Environment and Pollution (1999- ).

International Journal of Environmental Technology and Management (1999- ).

International Journal of Risk Assessment and Management (1999-).

Journal of Public Policy and Management digital on line journal, R. Shin editor (1999- ).

Journal of Public Affairs Review, M. Wang and R. Stough editors, Chinese Association of Public Affairs Mgt. Taiwan (2000 -).

Journal of the Korean Geographical Society (2009- )

Journal of the Regional Science Association International (1992-1995).

Papers of the Regional Science Association, Pacific Editor (1992-1998)

Urban and Regional Information Systems Association Journal (URISA) (2000 -).

Studies in Regional Science's Journal of the Japan Section of Regional Science International (1999 -).

## GRADUATE STUDENT SUPERVISION

### Masters

McGill University, 1968-1970, Department of Geography, two

University of Texas at Austin, 1970-1976, Department of Geography, five

University of Texas at Austin, 1971-1976, Lyndon B. Johnson School of Public Affairs, twenty-five

Indiana University, Bloomington, 1978-1987, Department of Geography, seven

Indiana University, Bloomington, 1978-1987, School of Public and Environmental Affairs, forty-five

Boston University, Boston, 1987-1990, Department of Geography, two

George Mason University, 1990-present, Public Policy, International Commerce, Transportation, Organization, Peacekeeping and Enterprise Engineering, 50 plus

### Doctoral

University of Texas at Austin, 1970-1978, eleven

Indiana University, Bloomington, 1978-1993, eleven

Boston University, Boston, 1987-1992, three

George Mason University, Fairfax, VA 1990- , sixteen + seven in progress

Theodore Klastorin, Ph.D., 1973 (Business-Operations Research) University of Texas at Austin, presently Professor, Department of Marketing, School of Business, University of Washington, Seattle, Washington

Diana (DeAre) Long, Ph.D., 1976 (Geography) University of Texas at Austin, presently Director, Migration Research, U.S. Bureau of the Census, Washington, D.C.

Dennis Conway, Ph.D., 1977 (Geography) University of Texas at Austin, presently Professor, Department of Geography, and Director Latin American and Caribbean Studies Center, Indiana University, Bloomington, Indiana

Bal Kumar K.C., Ph.D., 1977 (Geography) University of Texas at Austin, presently Professor, Department of Geography, and Chair, Department of Demography, Tribhuvan University, Nepal

**GRADUATE STUDENT SUPERVISION (Continued)**

Fred Y. Phillips, Ph.D., 1978 (Interdisciplinary: Business-O.R., Public Affairs and Mathematics) University of Texas at Austin, presently Associate Dean, School of Management, Maastricht Netherlands.

Wayne T. Enders, Ph.D., 1979 (Geography) University of Texas at Austin, presently Associate Professor, Universidade Federal do Rio Grand do Norte Natal, Brazil

David Harner, Ph.D., 1979 (Geography) University of Texas at Austin, presently President, D. Harner & Associates, Inc., Austin, Texas

Kamal K. Sharma, Ph.D., 1980 (Geography) Indiana University, Bloomington, presently Assistant Professor (Lecturer) University of Rajasthan, Ajmer, Rajasthan, India

James E. Storbeck, Ph.D., 1980 (Interdisciplinary: Business-Operations Research, Public Affairs and Geography) University of Texas at Austin, presently Associate Professor, Management Science, School of Business, Ohio State University, Columbus, Ohio

Dale Whittington, Ph.D., 1980 (Interdisciplinary: Business-Operations Research, Public Affairs, and Engineering) University of Texas, presently Professor, Department of Urban and Regional Planning and Department Of Environmental Engineering, University of North Carolina, Chapel Hill, North Carolina

Hugo Hervitz, Ph.D., 1983 (Economics) Indiana University, Bloomington, presently Associate Professor, School of Business, Barry College, Miami, Florida

Barry Solomon, Ph.D., 1983 (Regional Analysis and Planning) Indiana University, presently Professor, Michigan Institute of Technology, Houghton, Michigan

Thomas D. Georgianna, Ph.D. 1984 (Regional Analysis and Planning) Indiana University, Bloomington, presently Research Director, Parametrix, Inc. Seattle, Washington

Richard Barff (Wright), Ph.D. 1985 (Geography) Indiana University, Bloomington, presently Professor, Department of Geography, Dartmouth College, New Hampshire.

Mingshen Wang, Ph.D. 1987 (Regional Analysis and Planning) Indiana University, presently Professor, School of Management, National Sun Yat-Sen University, Kaoshiung, Taiwan

Peter Williams, Ph.D. 1987 (Geography) Indiana University, Bloomington, presently Research Consultant, GIS Planning Systems, Cape Cod, MA

Mary Graham, Ph.D. 1988 (Geography) Indiana University, Associate Professor, York University, York, PA

Adrian Bailey, Ph.D. 1989 (Geography) Indiana University, presently Assistant Professor, Department of Geography, Dartmouth College, New Hampshire

William Bowen, Ph.D. 1989 (Regional Analysis and Planning) Indiana University, presently Professor, Cleveland State University, Cleveland, Ohio. Regional Science Association - International, First Prize Dissertation Award (1989)

**GRADUATE STUDENT SUPERVISION (Continued)**

Syed Abu Hasnath, Ph.D. 1989 (Geography) Boston University, presently Assistant Professor, Department of Geography, Boston University, Boston, MA

John Mahony, Ph.D. 1990 (Geography) Boston University, presently Massachusetts Department of Environmental Management, Boston, MA.

Homee F. E. Schroff, Ph.D. 1992 (Geography) Boston University, presently Department of Housing, City of Chicago, Chicago, Illinois

Robert G. Stubbings, Ph.D. 1992 (Philosophy and Public Policy) Indiana University, presently Associate Professor of Political Science, Texas Tech University, Lubbock, TX

Tony Dignan, Ph.D. 1993 (Regional Analysis and Planning) Indiana University, presently Research Economist, Coopers and Lybrand, Belfast, Ireland, Regional Science Association - International, First Prize Dissertation Award (1993)

Mark DeSantis, Ph.D. 1993 (Public Policy) George Mason University, presently Director of Alleghany Foundation, Pittsburg, PA.

Marshal Bailey, Ph.D. 1993 (Public Policy) George Mason University, presently with Defense Logistics Agency, Arlington, VA

Li Qiangsheng, Ph.D. 1996 (Public Policy) George Mason University, Vice President Citibank, Delaware.

Nitin Pandit Ph.D. 1998 (Public Policy) George Mason University, Executive Director, IIEC, Washington, DC

Tariq M. Al Salloum, Ph.D. 1999 (Public Policy) George Mason University, presently Assistant Professor, Dept. of Public Administration, Riaydh University, Saudi Arabia

Carlos Arieria, Ph.D. 1999 (Public Policy) George Mason University presently Statistical and Economics Research Unit, Westat Corp., Washington D.C

Mustafa Dinc, Ph.D. 1999 (Public Policy) George Mason University, presently Director, Trust Fund for Statistical Capacity Support, World Bank, Washington, D.C.

Yulan (Magnolia) Hsing Ph.D. 1999 (Public Policy) George Mason University, presently special advisor to Mayor of Kaoshiung, Taiwan and Assistant Professor Tinan University, Taiwan.

Somik Lall, Ph.D. 1999 (Public Policy) George Mason University, presently Economic Research Division, World Bank, Washington, D.C

Jon Gettman Ph.D. 2000 (Public Policy) George Mason University, consultant in agriculture policy

Stephane Philogene Ph.D. 2000 (Public Policy) George Mason University, Social Science Research Analyst, Office of Policy, Social Security Administration, Washington, D.C

George J. Michael, Ph.D., 2001 (Public Policy) George Mason University, presently Assistant Professor, University of Virginia

**GRADUATE STUDENT SUPERVISION (Continued)**

Serdar Yilmaz, Ph.D., 2001 (Public Policy) George Mason University, presently Telecommunication Infrastructure Investment Office, World Bank, Washington D.C

Susan Aud, Ph.D., 2002 (Public Policy) George Mason University, presently Assistant Professor (SAIS) Johns Hopkins University, Washington D.C

Ronil Hira, Ph.D., 2003 (Public Policy) George Mason University, presently Associate Professor, Rochester Institute of Technology, New York.

Qingshu Xie, Ph.D., 2003 (Public Policy) George Mason University, presently Research Analyst, Environmental Systems Group, Washington D.C

Lei Ding, Ph.D., 2005 (Public Policy) George Mason University, Post Doc Center for Community Capitalism, Kenan School of Business, University of North Carolina, Chapel Hill, NC and presently Assistant Professor, Wayne State University, Detroit, MI

Yanchun Liu, Ph.D., 2008 (Public Policy) George Mason University, presently call Beth Eck

Lynn C. Chapman, Ph.D. 2009 (Public Policy) George Mason University, presently Director Government Research Center, Inc, Middleburg, VA

Haifeng Qian, Ph.D., 2010 (Public Policy) George Mason University, and presently Assistant Professor, Cleveland State University, OH

## GRANTS AND CONTRACTS

1. McGill University, Computer Center, Faculty Grant, 1969-70.
2. McGill University, Social Sciences Division, Committee on Research, Faculty of Graduate Studies, 1969-70. (\$1,200)
3. University of Texas at Austin, Department of Geography, Support for Research Assistant, 1970-71. (\$1,000)
4. University of Texas, University Research Institute, 1971-75. (\$1,500)
5. Ford Foundation Grant (LBJ School of Public Affairs, University of Texas at Austin) in partial support of Policy Research Projects: Municipal Land-Use Policies, 1971-72; Nuclear Power Plant Siting, 1972-73; Texas Higher Education Policies, 1973-74; and Coastal Zone Land-Use Policies, 1974-75. Salary and seminar allocation from an institutional development grant, 1971-76. (\$195,000) and (\$250,000)
6. National Science Foundation, Science Support Funds, (GU3766) 1972. (\$1000)
7. Ford Foundation Participant Support grant conference on "Environmental Management: Guidelines for National Policy," 1972
8. National Science Foundation (Association of American Geographers), Comparative Metropolitan Analysis Project, Local Coordinator for the Dallas-Fort Worth Study, 1972-73 (\$1,500)
9. University of Texas at Austin and Texas Tech University, Preproposal grant, Development of a Center for Regional Resources and Environmental Studies in West Texas, 1972-73. (\$5,000)
10. National Science Foundation (RANN), Co-principal Investigator, "Operational Criteria for Environmental Planning on the Texas Gulf Coast," No. GI-34870X, 1972-74. (\$239,000)
11. Governor's Office, Interagency Council for Natural Resources and the Environment, Division of Planning and Coordination, State of Texas, "Guidelines for Coastal Zone Management," No. IAC 74-0685, 1972-74. (\$50,000)
12. National Science Foundation (RANN), Participant Support Urban Ecosystems Workshop of The Institute of Ecology "Urban Structure and Function" 1973
13. National Science Foundation (RANN), Participant Support grant NATO Scientific Division Invitational Conference on "Mathematical Analysis of Decision Problems in Ecology," Istanbul, Turkey, July, 1973.
14. Office of Education (H.E.W.) and the Coordinating Board of Texas Colleges and Universities by Interagency Contract, Co-Principal Investigator, "Texas Higher Education Policy Planning," 1973-74. (\$20,000)

**GRANTS AND CONTRACTS (Continued)**

15. U.S. Department of Transportation (Division of Research in Transportation, Council for Advanced Transportation Studies, University of Texas at Austin), Faculty Associate, grant for "Transportation to Fulfill Human Needs/Access to Essential Services," 1973-75 (\$1,250,000)
16. National Science Foundation (RANN), Co-principal Investigator, "Operational Guidelines for Environmental Management in the Texas Coastal Zone," renewed and expanded, No. AEN 74-13590-Aol 1974-76. (\$600,000)
17. Governor's Office, Interagency Council for Natural Resources and the Environment, Division of Planning and Coordination, State of Texas, "Coastal Zone Management Guidelines," NO. IAC 75-1001 1974-76. (\$35,000)
18. National Science Foundation (Association of American Geographers), Participant Support grant for the First Hungarian-United States Joint Seminar on "Geographical Aspects of Urbanization," Budapest, Hungary, June, 1975
19. Lyndon B. Johnson Foundation, Project Director and Principal Investigator, research grant for a project on Community Development in the Lower Rio Grand Valley, 1975-76. (\$25,000)
20. Ford Foundation, participant support NATO Scientific Division Invitational Conference on "Environmental Assessment of Socioeconomic Systems," Istanbul, Turkey, Oct. 1976.
21. U.S. Department of State, International Development Cooperation Agency, (A.I.D.) Central Operations Division, Office of Training, Trainer and Researcher, "Analytical Skills Workshop Program," 1978-1980 (\$620,000); 1980-1983. (\$411,128)
22. NOAA, U.S. Department of Commerce Coastal Energy Impact Program and the Indiana State Planning Services Agency, Researcher and Director Sub-Project, "Indiana Coastal Energy Facility Inventorying and Permitting," 1979. (\$15,000)
23. Office of Coastal Zone Management, NOAA, U.S. Department of Commerce and the State Planning Services Agency of Indiana, Researcher and Director of Sub-Project on "Energy Facility Siting Analysis in the Indiana Coastal Zone," 1979. (\$115,000)
24. United States Geological Survey, Researcher, "Eastern Coal Basin Planning Project," 1979-1981. (\$150,000) and (\$135,000)
25. National Science Foundation, Collaborative Researcher, "A Study of Ways to Improve the Scientific Content and Methodology of Environmental Impact Analysis," 1980. (\$120,955)
26. United States Environmental Protection Agency and the State Board of Health of Indiana, Collaborative Researcher, "Open Dump Site Inventory," 1980. (\$100,000)
27. United States Environmental Protection Agency and the Indiana Department of Natural Resources, Principal Researcher, "Water Supply Alternatives for Southeastern Indiana," 1982. (\$100,000)
28. National Science Foundation, Principal Investigator, "Competition, Risk and Optimal Allocation of Water Resources in the Arid Western United States," 1982-1984. (\$25,000)

**GRANTS AND CONTRACTS (Continued)**

29. U.S. Department of State, International Development Cooperation Agency (A.I.D.), Dominican Republic Mission, Project Design, "Catholic University, Graduate Management Training," Institutional Contract, 1983. (\$85,000)
30. U.S. Department of State, International Development Cooperation Agency (A.I.D.), University Linkage Project, Trainer and Researcher, "Capacity Building in Egyptian Local Government," (Cairo University, Faculty of Economic and Political Science-Indiana University, School of Public and Environmental Affairs) Inter-Institutional Contract, 1982, 1983-84. (\$75,000)
31. Xerox Corporation, Principal Consultant, "Evaluation of Strategic Responses to Service Opportunities" Business Services Division, Rochester, NY 1983-84. (\$10,000)
32. U.S. Department of Transportation, Office of the Assistant Secretary for Policy, University Grants Division, Researcher, "Impact of Bus Deregulation on Small Communities", 1983-84. (\$75,000) Indiana Department of Commerce, Researcher, "Tourism and Economic Development Assessment," Indianapolis, IN 1985. (\$45,000)
33. Indiana Department of Commerce, Lt. Governor's Office and the Indiana Economic Development Council, Principal Investigator, "Strategic Planning for Economic Development, Phase I-Environmental Scan, Indianapolis, IN. 1985-86. (\$22,000)
34. National Science Foundation, Co-Principal Investigator, "Investment in Infrastructure for Scientific and Technological Research" 1985-87. (\$15,000)
35. National Science Foundation, Collaborative Researcher "Handbook on the Methodology of Policy Analysis" 1985-87. (\$125,850)
36. Meridian Insurance Company, Principal Consultant "Strategic Planning for New Service Opportunities in Risk Management", Indianapolis, IN 1986. (\$10,000)
37. Indiana Vocational and Technical College System, Co-principal Researcher, "Needs Assessment for Metropolitan Northwest Indiana" IVY Tech System, Indianapolis, IN. 1986 (\$48,000)
38. Indiana Vocational and Technical College System, Co-Principal Researcher, "Needs Assessment Study for Anderson, Indiana", IVY Tech System, Indianapolis, IN 1986. (\$40,000)
39. Methodist Hospital of Lake County, Co-Principal Researcher Socio-Demographic Profile Hospital Service Areas," Gary, IN, 1986-1987. (\$20,000)
40. National Science Foundation, Principal Investigator, "Characterizing Organizational Patterns in National Scientific and Technological Research: Policy Analysis" 1986-87. (\$32,000)
41. Indiana Vocational and Technical College System, Co-principal Researcher "Assessment for Secondary and Post-Secondary Vocational and Educational Requirements in Logansport, Indiana" IVY Tech System, Indianapolis, IN 1987 (\$48,000)

**GRANTS AND CONTRACTS (Continued)**

42. Keck Foundation, Institutional and Program Support Grant, Co-Principal Investigator, "Remote Sensing and Geographic Information Systems" 1987-1989 (\$580,000), 1989-1991 (\$600,000)
43. Ameritech Foundation Steering Committee, "Ameritech Fellowship Program in Leadership and Regional Development" Institutional and Program Support Grant. 1987-1992 (\$500,000) with matching Indiana University/SPEA Institutional Support (\$500,000)(PI- C. Bonser)
44. Chinese Management Association, Taiwan Environmental Protection Agency, Taiwan National Science Council, Taiwan Petroleum Corporation and the Taiwan Electric Utility Corporation, Taipei, Taiwan, Republic of China, 1989 (\$20,000)
45. U.S. Department of Energy, Co-Principal "Graduate Fellowships for Global change", Institutional Grant, cap \$200,000 (1991-1993)
46. U.S. Department of Transportation-FHWA (IVHS) Co-Principal Investigator "Evaluating Institutional Effectiveness" \$7000 (1992)
47. U.S. Department of Defense "Fairfax Electronic Commerce Resource Center" Researcher \$2,000,000 per year (1992- 2000)
48. U.S. Department of Defense "Behavioral Issues in Functional Process Improvement Implementation" Researcher (\$245,000) (1993-1994)
49. The Industrial Heritage Development Program (SW Pennsylvania) "Network Analysis, Data Development and Training for Regional Development" Principal Investigator and Co-Principal Investigator 1993-1994 (\$29,000)(\$45,000)
50. U.S. Department of Transportation-FHWA (IVHS) "Evaluation of Intelligent Vehicle Highway System Deployment, Co-Principal Investigator" Cooperative Agreement DTFH61-93-X-0027 (\$1,600,000) (1993-1995), (\$2,000,000)(1995-1997)
51. U.S. Department of Commerce, National Telecommunication and Information Administration (TIAPP) "Regional Information Infrastructure Policy Project" Principal Investigator (\$1,350,000)(1994-95)
52. Washington Board of Trade "Location and Composition of High Technology Firms in the National Capital Region" Co-Principal Investigator (\$50,000) (1995)
53. Virginia Center for Innovative Technology (CIT) "Economic Development Research in Support of Technology Deployment in Virginia" Co-Principal Investigator (\$82,514) (1995-96)
54. U.S. Department of Transportation, Intelligent Vehicle Highway Systems, Co-Principal Investigator, "Social and Behavioral Implementation Assessment of Intelligent Highway Systems", \$750,000 (1995-1996)
55. Chiang Ching Kuo Foundation (USA) "Port of Kaohsiung and Taiwan's Regional Operations Center Strategy" (\$40,000) 1996-1998

**GRANTS AND CONTRACTS (Continued)**

56. U.S. Department of Transportation "Washington Smart Traveler Project: Partners in Motion" Researcher (\$750,000) 1997-1998
57. Bell-Atlantic Company "Public Trust in the Internet: "Industry and Policy Considerations" Principal Investigator (\$40,000) 1998-1999
58. U.S Department of Transportation "National Center for Intelligent Transportation System Deployment" Cooperation Agreement #DTRS98-6-0013Co-Principal Investigator (\$24,000,000) 1998-2004
59. Va. Department of Technology "Economic Impact and Customer Satisfaction "Center for Innovative Technology, Principal Investigator (\$81,700) 1999-2000
60. National Science Foundation/EPA "Social Vulnerability Analysis/Spatial and Hazard Screening of Toxic Chemical Releases" #SES-9976483 Principal Investigator (\$149,000) 1999-2004
61. National Science Foundation/Engineering Transportation Initiative "Complex System Theory for Road Transportation Analysis: Algorithmic Complexity, Connectivity, Fractal Geometry, Percolation Theory, Evolutional Biology and Neural Networks" Co-Principal Investigator (\$150,000) 2000-2002
62. National Science Foundation/Corps of Army Engineers, Water Policy Division "Environmental Assessment in the Upper Mississippi Basin" Principal Investigator (\$107,000) 2001-2004
63. National Defense University, (DOD) "National Security Curriculum Development" Principal Investigator (\$240,000) 2001-2004
64. Smith Richardson Foundation "Comparative Policy Research" Principal Investigator (\$57,438) 2001-2004
65. Innovation Study Program/ Sloan "New Program Initiatives" Principal Investigator via GMUF (\$15,335) 2001-2006
66. Association of European Airlines "Towards an Efficient European Air Transport System" Co-Principal Investigator 2002 (with K. Button and R. Stough)
67. National Defense University, (DOD) "Middle East Center Development" Principal Investigator (\$277,000) 2002-2004
68. National Defense University, (DOD) "Academic Program Cooperative Support" Principal Investigator (\$34,200) 2002-2004
69. National Defense University, (DOD) "Media Policy Support" Principal Investigator (\$222,500) 2002-2005
70. National Atmospheric and Space Administration (NASA) "Medical Policy Office Support" Principal Investigator (\$758,401) 2003-2006
71. National Atmospheric and Space Administration (NASA)"Medical Policy Office Support" Principal Investigator (\$220,312) 2003-2006

**GRANTS AND CONTRACTS (Continued)**

72. National Defense University, (DOD) “Comparative Analysis Research” Principal Investigator (\$74,954) 2003-2004
73. National Defense University, (DOD) “Assessment of Disarmament, Demobilization and Reintegration Programs in West Africa” Principal Investigator (\$56,290) 2004-2006
74. National Atmospheric and Space Administration (NASA) “International Medical Research” Principal Investigator (\$96,885) 2005-2006
75. National Defense University, (DOD) “Research Center Development” Principal Investigator (\$331,040) 2004-2006
76. General Services Administration, Telecommunications Center and Operation, (\$1,402,000) 2008-2010
77. National Atmospheric and Space Administration (NASA), “Medical Policy and Evidence-Based Tools Project and Personnel” (\$2,500,000) 2006-2010
78. U.S. Department of Defense (DOD), National Defense University, “Africa Center Project and Personnel” Principal Investigator (\$786,000) 2006-2010
79. Society of Human Resource Management “Business Continuity Plan 2009” Principal Investigator, (\$70,000) 2008-2009
80. Town of Leesburg “Small Business Incubator Plan” Principal Investigator (\$20,000) 2008-2009
81. U.S. Department of Homeland Security (DHS) “TSA Telework Program” Principal Investigator (\$17,000) 2008-2010
82. U.S. Department of Transportation (U.S.DOT) FHA “Regional Integration Research Project” Principal Investigator (\$1,262,000) 2006-2009
83. U.S. Department of Transportation (U.S.DOT) RITA “University Transportation Center II” Principal Investigator (\$1,750,000) 2005-2011
84. U.S. Department of Agriculture (USDA) West Virginia University, Regional Research Institute, “Rural Development Evaluation” Principal Investigator of Sub-grant (\$204,858) 2008-2010
85. U.S. Department of Commerce (EDA) West Virginia University, Regional Research Institute, “Regional Innovation Systems” Principal Investigator of Sub-grant (\$75,000) 2008-2010

## UNIVERSITY ACTIVITIES

### MCGILL UNIVERSITY

- Project Director: Urban Studies Institute
- Faculty Secretary: Department of Geography

### UNIVERSITY OF TEXAS AT AUSTIN

- Coordinator Graduate Colloquium: Department of Geography
- Associate Member: Latin American Studies Center
- Research Affiliate: Population Research Center
- Member: Search Committee for the Dean of Architecture
- Proposal Project Coordinator: Joint Center for Regional Resources and Environmental Studies in West Texas, University of Texas at Austin and Texas Tech University
- Member: Committee for Advanced Transportation Studies
- Graduate Advisor: Department of Geography
- Associate Member: Asian Studies Center
- Co-Director: Joint Center for West Texas Environmental Studies
- Research Affiliate: Center for Cybernetic Studies
- Chairman: Lyndon B. Johnson School of Public Affairs-Law School Joint Program Committee
- Chairman: University Committee on International Studies and Programs
- Graduate Advisor: The Lyndon B. Johnson School of Public Affairs
- Member: University Evaluation Committee, Graduate School of Business
- Chairman: Faculty Recruitment Committee, Lyndon B. Johnson School of Public Affairs

### INDIANA UNIVERSITY

- Chairman and Member: Numerous statewide committees, School of Public and Environmental Affairs
- Member: The Environmental Systems Application Center, School of Public and Environmental Affairs
- Director: Center for Urban and Regional Analysis, School of Public and Environmental Affairs
- Member: The International Development Institute
- Chairman: Urban and Planning Faculty, School of Public and Environmental Affairs
- Elected: School of Public and Environmental Affairs representative
- Faculty Council, 1981-1983 (Faculty Affairs Committee, Budgetary Affairs Committee, University Physical Plant Committee, Budgetary Planning Committee); Dean's Policy Council, 1983-86 (Vice Chair)
- University Presidential appointee: NCAA Faculty Nomination Committee
- Member: Indiana University Press, Policy Advisory Board
- Vice-President appointee University Physical Plant Operations Review Committee
- Director: Regional Economic Development Institute
- University Presidential appointee: to the Foundation for International Exchange of Scientific and Cultural Information by Telecommunications, "U.S.-Europe Cooperative Project on Urban Downtown Redevelopment"
- Steering Committee and Co-Principal Investigator: Policy Advisory Council, Leadership in Regional Development Program, Ameritech Foundation and Indiana University

## UNIVERSITY ACTIVITIES (Continued)

### BOSTON UNIVERSITY

- Dean's Executive Committee, College of Liberal Arts
- Member University Advisory Committee on Core Curriculum Development and Co-Chair, Natural Science Committee, Core Curriculum Development
- Member: College of Liberal Arts, CLA Dean Review Committee

### GEORGE MASON UNIVERSITY

- Chair: Graduate School Review, Southern Accreditation Commission, Accreditation Reaffirmation Process, University of Georgia, Athens, Georgia, 1990
- Member: University Life Committee, Issue in University Reorganization; Dean Review Committees, University Senate
- Dean, Graduate School: Chair Graduate Council, Director Graduate Office, 1990-1993, Member Graduate Council 1990-2001
- Member, President's Task Force on University Priorities 1996 Budget and Resources
- Negotiator: Joint Agreements for faculty and graduate student exchange and cooperative research and teaching programs between George Mason University and Queensland University, Brisbane Australia; University of Leiden, Leiden, Netherlands; Erasmus University, Rotterdam, Netherlands; Delft University of Technology, Delft, Netherlands; National Sun Yat-Sen University, Kaoshiung, Taiwan; National Institute for Science and Technology Policy, Tokyo, Japan; Jonköping International School of Business, Jonköping, Sweden; Asturias School of Business, Oviedo, Spain, 1990
- Member: University Management Team, Provost's Dean and Directors Council
- Chair: Graduate School Accreditation Preparation Document for Southern Accreditation Commission's Accreditation Reaffirmation Process
- Member: President's Executive Council
- Chair, School of Management, Dean Search Committee
- Member, President's Task Force on the Distributed (Multi-Campus) University
- Chair, College of Nursing and Health Science, Dean Search
- President's Council

## PROFESSIONAL ACTIVITIES

Research Assistant: Rutgers University, Department of Economics, Meadowlands Project, 1964

Advisor: Coastal Environments and Hackensac Meadows: Watson & Watson (attorneys), New Brunswick, New Jersey, 1964-65

Consultant: Northeast Corridor Transportation Project (D.O.T.), Consad Research Corporation, 1967

Consultant: Van Ginkel Associates (Architects/Planning Consultants), Montreal, 1969

Economic Planner: Airport Impact Analysis, Salvador, Brazil. Department of Civil Aviation, Bahia, Brazil, 1970

Consultant: Ecos Limited, Montreal, Canada, 1970

Research Director: McGill Urban Institute Summer Program, McGill University, Montreal, Canada, 1970.

Consultant: Central Manhattan Circulation Study, Office of the Mayor, New York City, 1970-71

Consultant: Community Airport Economic Development Model (C.A.E.D.M.) for F.A.A. (U.S. Government), Noise-Land Use Compatibility Model, 1971

Consultant: Campus Location Impact Analysis, University of Quebec at Three Rivers, 1971

Reserve Consultant: The Mexican American Development Corporation, Austin and San Antonio, Texas, 1972

Advisor: The Texas Rural Development Commission, Governor's Office, State of Texas, 1972-73

Consultant: Texas Land Use, Research and Planning Consultants, Austin, Texas, 1972-73

Faculty Consultant: "The Texas Assembly on Land Use," The Texas Real Estate Center, College of Agriculture, Texas A & M University, College Station, Texas, 1974

Consultant: Resources and the Environment, Middle East International Division, Ford Foundation, New York, NY, 1975-76

Director: Office of Resources and the Environment, Middle East International Division, Ford Foundation, 1976-1978; responsible for Foundation program activities in this subject (Regional responsibility for Egypt, Sudan, Libya, Jordan, Syria, Lebanon, Iraq, Kuwait, Bahrain, Saudi Arabia, Qatar and Oman, North and South Yemen-peripheral responsibilities for Tunisia, Algeria and Morocco) Management of three million dollars of international and local currency training and research programming primarily in Egypt, Jordan and the Sudan and development of cooperative projects with AID and EPA.

Member: Region 10, Section 208 Pure Water Act: Policy Advisory Committee, Mayoral Appointee, 1978-1980

**PROFESSIONAL ACTIVITIES (Continued)**

Consultant: E.P.A. Lake Nasser-Nile River Water Quality Project, Cairo, Egypt, 1979

Consultant: The Center for Metropolitan Affairs, College of Charleston, Charleston, South Carolina, 1979, 1980 and 1982

Trainer: Analytical Skills Workshop, AID Pasitam Project, International Development Institute, Indiana University, (in Portugal, Sierra Leone, Egypt, Philippines, Washington, D.C., Ecuador, Cypress, Haiti) 1979-84

Consultant: E.P.A./Ford Foundation Lake Nasser-Nile River Water Quality Project, Cairo, Egypt, 1981

Consultant: Management Program Design Team, Catholic University, Santo Domingo, Dominican Republic under A.I.D. contract, 1982

Consultant: The Indiana Department of Natural Resources, Small Community Water Supply Systems, 1982

Organizer: Center for Urban and Regional Analysis Discussion Paper Series in State and Local Finance, 1982

Consultant: Ford Foundation, Upper Nile Basin Management Project, Khartoum, Sudan, 1982

School of Public and Environmental Affairs Host: University of Khartoum, Institute for Environmental Studies, Ford Foundation sponsored visitors: Dean, School of Law (3 months) 1982; Lecturer, School of Law (12 months) 1982-1983; USIA, American Scholars Program, Tribuvan University (Nepal) Visiting Professor (3 months) 1986

Consultant: Strategic Planning, Business Services Division, Xerox Corporation, Rochester, NY 1983-1984

Member: Three Person Academic Review Team selected by Ohio State University to evaluate the School of Public Administration, Columbus, Ohio with Stokes of Woodrow Wilson, Princeton and Netzer of N.Y.U, 1984

Consultant: Strategic Planning, Indiana Economic Development Council, Indianapolis, IN 1985-1986

Consultant: Indiana Vocational and Technical College System (IVY Tech), Indianapolis, IN., 1985-1987

Consultant: Strategic Planning and Risk Management Services, Office the Vice President, Meridian Insurance Company, Indianapolis, IN 1986

Director: Workshop on Strategic Planning, Lake County Industrial Development Corporation and Private Industry Council, Geneva, WI 1986

Director: Laicos Systems Associates, Indianapolis, IN 1986

Consultant: Holcomb Research Institute, Evaluation of Research and Education Program, Indianapolis, 1988

**PROFESSIONAL ACTIVITIES (Continued)**

"Practice of Public Policy" Institute for Innovation and Creativity. Kozmetsky Foundation. University of Texas, March 1988

Organizer and Lecturer, Training Workshop on Environmental Planning and Management in cooperation with the Chinese Management Association, Taipei, Taiwan (1 week), June 1989

Trainer, Strategic Planning for Regional Development: Leadership Workshop, South Bend, Indiana (2 days), August 1989

Trainer, Strategic Planning for Cooperative Action: Agency Workshop, South Bend, Indiana (2 days), February 1990

Consultant and Lecturer, "Workshop on Role of Service Productivity in Regional Development" Organization of Regional Development Officers, Norman, Oklahoma, August 1990

Consultant and Lecturer "Workshop on Regional Development Strategies" Department of State Development, New South Wales, Sydney, Australia, July 1991

Consultant and Lecturer "Workshop on Regional Development" Department of Business, Industry and Regional Development and Department of Housing, Queensland, Brisbane, Australia, July 1991

Organizer and Executive Committee, The Second International Summer Institute Pacific Regional Science Organization Conference, Academic Scinica, Taipei, Taiwan, July 1992

Member US-Korean GIS/IVHS Joint Program on Transportation, NSF and National Engineering Foundation with the Korean Engineer Foundation and Ministry of Transport, Seoul, Korea, 1994

Host, Applied Geography Conference, Arlington, VA 1995

External Reviewer, Graduate School, University of Kuwait, Kuwait City, March 1996

Advisor, Arriyadh Visioning Project, High Council on Development, Riyadh, Saudi Arabia, July 1997

Reviewer, Australian Research Council, Canberra, Australia 1998-  
Training participant and Lecturer, Association of State Economic Development Directors Workshops, 1998. 1999

Research Program Evaluation Team, School of Systems Engineering, Policy Analysis and Management, Delft Technical University, Netherlands, 1999

Member: Board of Directors, International Institute for Energy Conservation, NGO spinoff of American Society for Civil Engineering Foundation, 2003 -

International Advisor, New Zealand Tertiary Education Commission, Building Research Capacity in the Social Sciences (BRCSS) Project, Wellington, N.Z. 2005 – 2008

International Review Team, Netherlands Technical Universities, Ministry of Education, The Netherlands 2010-2011

## ACADEMIC PUBLICATIONS

1. A Note on Central Place Theory and Employment, Tijdschrift voor Economische en Sociale Geografie, Vol. 61, January/February, 1970, pp. 22-24
2. "A Conceptual Approach to Waste Control," Ekistics, Vol. 29, April, 1970, pp. 243-249
3. "The Distribution of Multi-Occupancy Housing in Montreal," La Revue de Geographie de Montreal, Vol. 25, 1971, pp. 173-178 (with J. Pinsky)
4. "Spatial Change in Urban Structure: Alternative Approaches to Ecological Dynamics," Economic Geography, Vol. 47 (Supplement B.J.L. Berry, ed.-Comparative Factorial Ecology), June, 1971, pp. 324-335
5. "Population, Economic Development and the Structure of Transportation in the Province of Quebec, Canada," Tijdschrift voor Economische en Sociale Geografie, Vol. 62, November/December, 1971, pp. 356-362 (with P. Ip)
6. "Urban Geography and Transportation: Time and Distance in Assignment Models; A Montreal Case Study," La Revue de Geographie de Montreal, Vol. 26, 1972, pp. 341-344 (with S. MacMillian)
7. "The Structure and Spacing of Intra-Urban Retailing," Annals of Regional Science, Vol. 6, December 1972 pp. 117-138 (with D. W. Jones)
8. "Intermetropolitan Migration in High and Low Opportunity Areas: Indirect Tests of the Intervening Opportunity Hypothesis," Economic Geography, Vol. 49, January 1973, pp. 68-73 (with D. Poston and P. Schnirring)
9. "Directional Bias in Urban Population Density," Annals of the Association of American Geographers, Vol. 63, March 1973, pp. 40-47 (with M. Rube)
10. "Towards a Model of the Number and Location of Lodging Facilities in Cities: A Montreal Example," La Revue de Geographie de Montreal, Vol. 27, 1973, pp. 73-80 (with M. Labonte)
11. "A Geographical Factor Analysis Model: Some Trans Atlantic Reflections," Area, Vol. 5, No. 2, 1973, pp. 106-109 (with D. Conway)
12. "Central Place Theory and the CBD in Transition: Austin, Texas," Ecumene, Vol. 6, May, 1973, pp. 31-35 (with M. Rube)
13. "Environmental Quality and Urban Population Density," Proceedings of the 1972 Meeting of the International Geographical Union Commission on Quantitative Geography (M. Yeates, ed.) McGill-Queens University Press, Kingston, Ontario, Canada, 1974, pp. 121-135 (with M. Rube)
14. "Using Up Mother Earth," The Texas Architect, Vol. 25 May/June, 1975, pp. 7-11

## OTHER ACADEMIC PAPERS UNDER DEVELOPMENT

15. "Application of Remote Sensing to the Analysis of Nodal Regions," Chap. in Manual of Remote Sensing, Vol. II, American Photogrammetry Society, Falls Church, Virginia, 1975, pp. 1952-1961 (with R.K. Holz)-Book Chapter
16. "The Changing Role of the C.B.D.: Dallas, Texas," Ecumene, Vol. 7, February, 1975, pp. 42-45 (with G. Kell)
17. "Distance, Direction and Entropy in the Evolution of a Settlement Pattern," Economic Geography, Vol. 51, October, 1975, pp. 357-365 (with W. Enders)  
  
"Distance, Direction and Entropy in the Evolution of Settlement Pattern," (reprinted as No. 180, Offprint Series, Institute of Latin American Studies, The University of Texas at Austin)
18. "A Hierarchical Goal-Programming Approach to Environmental-Land Use Management," Geographical Analysis, Vol. 7, April, 1975, pp. 121-129 (with A. Charnes, J.E. Hazleton and M. Ryan)
19. "A Hierarchical Goal Programming Model of Environmental-Land Use Management: The Texas Gulf Coast," Proceedings of the 1973 NATO Conference on Mathematical Analysis of Decision Problems in Ecology, (W.R. Lynn and A. Charnes, eds.), Springer-Verlag Inc., Heidelberg, West Germany, 1975, Chapter A, pp. 2-13 (with A. Charnes, J.E. Hazleton, and M. Ryan)
20. "Technical Assessment of the Impact of Geothermal Development in the Corpus Christi Area of Texas," Proceedings of the Second United Nations Symposium on the Development and Use of Geothermal Resources, San Francisco, California, May, 1975, X1-9E, Lawrence Laboratory, University of California, Berkeley, California (with T. Kleeman and T. Freeland)
21. "Environmental Quality and Inflation; The Cost-Push Effects of the 1972 Pure Water Legislation: A Regional Perspective," Environment and Planning, Vol. 7, Summer, 1975, pp. 567-574 (with T. Kleeman)
22. "Settlement Patterns in Central Argentina: Spatial Dynamics in a Developing Nation," in Latin America: Search for Geographical Explanations, Vol. 5, ed. R. Tata (Boca Raton, Fall, 1975), pp. 97-106
23. "The Impact of Natural Growth Centers: An Empirical Investigation in West Texas," Review of Regional Studies, Vol. 5, Fall, 1975, pp. 84-97 (with D. Harner)
24. "Extremal Approaches to Estimating Spatial Interaction," Geographical Analysis, Vol. 8, April, 1976, pp. 185-200, (with F. Phillips and G. White)
25. "A Market-Consumer Model of Residential Property Values," Environment and Planning, Vol. 8, Summer, 1976, pp. 271-287, (with F. Phillips and G. White)

## ACADEMIC PUBLICATIONS

26. "A 'Generalized Distance' Estimation Procedures for Intra-Urban Interaction," Geographical Analysis, Vol. 8, July, 1976, pp. 289-294 (with A. Charnes and F. Phillips)
27. "The Role of Socio-Economic Structure and Political Organization in the Diffusion of Public Policy Innovations Among the U.S. States: A Canonical Approach," Proceedings-Association of American Geographers, Vol. 8, 1976, pp. 146-151, (with Bal Kumar K.C.)
28. "Urban Structure and Coastal Zone Management: Some Tests of Generality and Scale Along the Texas Gulf Coast," The Coastal Zone Management Journal, Vol. 3, Fall, 1976, pp. 105-111 (with G. White and D. Hawkins)
29. "The Dallas-Fort Worth Metropolitan Area," Chapter 1, in Contemporary Metropolitan America: Vol. 4, Twentieth Century Cities, ed. J.S. Adams, Association of American Geographers, Comparative Metropolitan Analysis Project (Cambridge, Mass.: Ballinger, 1976), pp. 1-49 (with D. Conway, et. al.)-Book Chapter
30. "Modeling the Diffusion of Public Policies," Socio-Economic Planning Sciences, Vol. 11, 1977, pp. 259-263 (with V. Mahajan and Bal Kumar K.C.)
31. "Environment and Energy on the Texas Gulf Coast: A Short Run Economic Impact Model of Alternative Policies," in Environmental Assessment of Socio-Economic Systems, ed. D.E. Burkhardt and W.H. Ittelson (U.K. Plenum Press, 1977) (with J.E. Hazleton and T. Kleeman) pp. 493-518-Book Chapter
32. "Dual Extended Geometric Programming Problems and the Gravity Model," Journal of Regional Science, Vol. 17, 1977, pp. 71-76 (with A. Charnes, F. Phillips, and G. White)
33. "Innovation Diffusion: A Deterministic Model of Space-Time Integration with Physical Analog," Socio-Economic Planning Science, Vol. 11, 1977, pp. 25-29 (with V. Mahajan and G. White)
34. "Advances in Comparative Ecological Analysis: Parsimony, Invariance, and Homogeneity in Factor Analysis," Environment and Planning, Vol. 9, 1977, pp. 1143-1156 (with D. Conway)
35. "The Entropy Paradox and the Distribution of Urban Population," Socio-Economic Planning Science, Vol. 12, 1978, pp. 1-6 (with J. Storbeck)
36. "Nonmetropolitan Change in Urban America: Texas, A United States Case Study," in Urban Development in the U.S.A. and Hungary, (Budapest, Akademiai Kiado, 1978) pp. 263-285, (with D. DeAre and D. Harner)-Book Chapter
37. "Appropriate Technology and Public Policy: The Urban Waste Management System in Cairo," The Geographical Review, Vol. 69, 1979, pp. 101-108 (with S.M. El-Hakim) Summarized for U.S. AID in Pasitam Design Notes, No. 13, 1979 (Institute for Development Studies, Indiana University, Bloomington, IN) ed. T. D'Avanzo. Reprinted

## ACADEMIC PUBLICATIONS

- as Chapter 5 " Social Structure and Solid Waste: An Adventure in Problem Analysis" in Experiences in Appropriate Technology (ed. R.J. Mitchell) Ottawa, Canada: Canadian Hunger Foundation, 1980, pp. 41-44
38. "On the Efficient Use of the Aswan High Dam: A Revised Assessment," Proceedings of the Tenth Annual Pittsburgh Conference on Modeling and Simulation, Vol. 10, Part 3 (Pittsburgh, PA: School of Engineering, University of Pittsburgh and the Instrument Society of America, 1979) pp. 943-952 (with D. Whittington)
  39. "Role of Modernization and the Diffusion of Public Policy Innovations Among the U.S. States: 1870-1970," Geographical Journal of Nepal, Vol. 2 (Dec., 1979) pp. 66-102 (with Bal Kumar K.C.)
  40. "Environment and Urban Housing: An Estimation Model," Proceedings of the East Lake Geography Meetings, (Akron, Ohio: Akron University Press, 1979) pp. 7-13 (with F.Y. Phillips)
  41. "Energy Supply and Demand As Components of Municipal Comprehensive Planning," in Proceeding of Conference on Using Land to Save Energy, (Illinois-Indiana Bi-State Commission), Chicago, Illinois, 1980, pp. 93-105 (with P. Emmi)
  42. "The Entropies: Some Roots of Ambiguity," Socio-Economic Planning Sciences, Vol. 14, 1980, pp. 137-145 (with F.Y. Phillips and J.W. Mohrfeld)
  43. "Valuing Water in the Agriculture Environment of Egypt: Some Estimation and Policy Considerations," Regional Science Perspectives, Vol. 10, 1980, pp. 109-126 (with D. Whittington)
  44. "Information Theoretic Considerations for an Environment and Housing Model: New Equivalencies and an Unconstrained Regression Hypothesis," Proceedings Modeling and Simulation, Vol. 11, (Pittsburgh, PA: School of Engineering, University of Pittsburgh and the Instrument Society of America, 1980) pp. 1387-1392 (with F.Y. Phillips)
  45. "Energy, Agriculture and Water: A Multiobjective Programming Analysis of the Operations of the Aswan High Dam," Environment and Planning, Vol. 12 1980, pp. 369-379 (with G. Guariso, et al.)
  46. "Minimum Information Methods and Individual Choice: Applications to Linear and Loglinear Regression and Competitive Spatial Interaction Models," Applied Systems and Cybernetics, Vol. II, (ed. G.E. Lasker) 1981, pp. 733-740 (with F.Y. Phillips)-Book Chapter
  47. "Information Theoretic Models of Choice Behavior: Implication for Modeling Methodology," Proceedings, Modeling and Simulation, Vol. 12 (Pittsburgh, PA: School of Engineering, University of Pittsburgh and the Instrument Society of America, 1981) pp. 825-832 (with F.Y. Phillips)

## ACADEMIC PUBLICATIONS

48. "International Nile Management: Stage Three?," Geographical Review, Vol. 71, No. 1, January 1981 pp. 17-32 (with D. Whittington)
49. "A Real-Time Management Model for the Aswan High Dam with Policy Implications," Geographical Analysis, Vol. 13, No. 4, October 1981 pp. 355-372 (with G. Guariso, et al.)
50. "Coordination of the Operation of the Aswan High Dam with Upstream Development," Water Resource Management in Egypt, (eds. I.M. El Assouti and D. H. Marks) Cairo, Egypt: Ministry of Irrigation and Academy of Scientific Research and Technology, Jan. 11-14, 1981 (with D. Whittington)
51. "Strategies for Dealing with Water Shortages in Egypt," Water Resource Management in Egypt (eds. I.M. El Assouti and D. H. Marks) Cairo, Egypt: Ministry of Irrigation and Academy of Scientific Research and Technology, Jan. 11-14 (with D. Whittington)
52. "Competition for Water Resources: Coal and Agriculture in the Yellowstone Basin," Economic Geography, Vol. 57, July, 1981, pp. 225-237 (with T.D. Georgianna)
53. "A Multiobjective Location Model with Hierarchical Screening: Nuclear Power in Northern Indiana," Review of Regional Studies, Vol. 10, No. 3, 1981, pp. 9-22 (with B. Solomon and A. Krmenc)
54. "Constrained Minimum-Discrimination-Information: A Unifying Tool for Modeling Spatial and Individual Choice Behavior," Environment and Planning (Vol. 14, No. 10, 1982) pp. 1341-1354 (with F.Y. Phillips)
55. "Private Sector Decision Making in a Coal Industry Distribution Planning Model," Proceedings Modeling and Simulation, Vol. 13 (Pittsburgh, PA: School of Engineering, University of Pittsburgh and Instrument Society of America, 1982) pp. 1059-1066 (with F.Y. Phillips and B. Solomon)
56. "Conflicting Water Demands in the Yellowstone Basin," Proceedings of the Conference Water and Energy: Technical Policy Issues (eds. F. Kilpatrick and D. Matchett) American Society of Civil Engineers, New York, NY 1982, pp. 445-449 (with T. Georgianna)
57. "Multidimensional Programming Methods for Energy Facility Siting, Alternative Approaches," in National Conference on Energy Resources Management, Vol. 2 (Part 2) (eds. J.O. Brumfeld and Y.M. Schiffman) National Atmospheric and Space Administration, Publication No. 2261, Washington, D.C., 1982, pp. 393-409 (with B. Solomon)
58. "Regional Patterns in the Spatial Diffusion of Public Policy Innovations in the U.S. 1879-1970," Political Geography Quarterly Vol. 2 1983 pp. 289-307. (with B. Kumar and R. Briggs)
59. "Coal Industry Distribution Planning Model under Environmental Constraints," Economic Geography, Vol. 59, No. 1, 1983, pp. 52-65 (with F.Y. Phillips and B. Solomon)

## ACADEMIC PUBLICATIONS

60. "Time Series Analysis of Low Flow Stages of the Nile River: 622-1469" Proceedings Modeling and Simulation, Vol. 14 (Pittsburgh, PA: School of Engineering, University of Pittsburgh and Instrument Society of America, 1983) pp. 905-909 (with T.K. Miller, T.D. Georgianna, and D. Whittington)
61. "Capacity Expansion Under Demand Uncertainty: A Game Theoretic Approach" Proceedings Modeling and Simulation, Vol. 14 (Pittsburgh, PA: School of Engineering, University of Pittsburgh and Instrument Society of America, 1983) pp. 739-743 (with A. Krmeneč and T.D. Georgianna)
62. "A Survey and Critique of Multiobjective Power Plant Siting Decision Rules", Socio-Economic Planning Science, Vol. 18, 1984 pp. 71-79 (with B. Solomon)
63. "Planning for Capacity Expansion: Stochastic Process and Game Theoretic Approaches," Socio-Economic Planning Science, Vol. 18, No. 3, 1984 pp. 71-79 (with A. Krmeneč, D. Whittington, W.F. Echelberger, Jr., T.D. Georgianna)
64. "Issues in Local Water Resource Planning" Journal of the American Planning Association, Vol. 50, No. 3, 1984 pp. 359-364 (with A. Krmeneč, T.D. Georgianna, D. Whittington and W.F. Echelberger, Jr.)
65. "Disaggregation of Non-metropolitan Change in Indiana: An Information Theoretic Perspective with Shift-share Implications," Proceedings Modeling and Simulation Vol. 15 (Pittsburgh, PA, School of Engineering, University of Pittsburgh and Instrument Society of America, 1984) (with Z. Machunda), pp 445-450
66. "The Impact of Environmental Policy on Regional Coal Production," Proceedings Modeling and Simulation Vol. 15 (Pittsburgh, PA, School of Engineering, University of Pittsburgh and Instrument Society of America, 1984) (with T.D. Georgianna and B. Solomon), pp. 489-494
67. **THE GRAVITY MODEL AND SPATIAL INTERACTION** (Beverly Hills, Ca.: Sage Publications, 1984) (with A.S. Fotheringham)-Book into 3rd printing
68. **PATHOLOGIES OF URBAN PROCESSES** (Tampere, Finland, Finn Publishing, 1985) ed. (with A. Kuklinski and O. Kultalahti), p. 448-Book
69. "Local Planning for Capacity Expansion" in Pathologies of Urbanization Processes (eds. K. Haynes and A. Kuklinski) Tampere, Finland, Finn Publishing, 1985 (with A. Krmeneč, T.D. Georgianna, D. Whittington and W.F. Echelberger, Jr.) p. 341-362-Book Chapter
70. "Water for Whom? Water for What? - Allocations in the Nile Basin" Agriculture in the Middle East eds. P. Beaumont and K. McLachlan (London, U.K.: John Wiley & Sons, 1985) pp. 125-149 (with D. Whittington)-Book Chapter
71. "Resiliency, Vulnerability and Unemployment: Modeling Risk Assessment in Water Resource Allocation," Proceedings, Modeling and Simulation Vol. 16 (Pittsburgh, PA,

## ACADEMIC PUBLICATIONS

- School of Engineering and Instrument Society of America, 1985) pp. 235-239 (with T.D. Georgianna)
72. "Decision Rules, Multiple Objectives and Power Plant Siting," Management Science and Policy Analysis Journal Vol. 3, No. 1, Summer 1985 (with B.D. Solomon)
  73. "Geography, Science and Concept Change: The Ecology of Toulmin--A Commentary," Scientific Geography Vol. 2 June, 1985 pp. 10-16 (with R. Stubbings)
  74. "The Nexus Between Nonmetropolitan Manufacturing Dispersal and Manufacturing Change in Indiana," Proceedings, Modeling and Simulation Vol. 16 (Pittsburgh, PA, School of Engineering and Instrument Society of America, 1985) pp. 125-130 (with Z.B. Machunda)
  75. "Modeling Intercity Amtrak Passenger Transportation: A Pilot Study" Proceedings Modeling and Simulation Vol. 16 (Pittsburgh, PA, School of Engineering and Instrument Society of America, 1985) pp. 343-348 (with T.A. Ressler)
  76. "Investment in Infrastructure for National Scientific and Technological Research: Policy Considerations" Science Policy Resource Paper for Sigma Xi, The National Scientific Research Society (under contract to the Division of Policy Research and Analysis, National Science Foundation, Washington, D.C.) 1985 pp. 31 (with R.R. Stough)
  77. "Constraints on Regional Coal Production in the U.S.: A Time Series Analysis" Geographical Dimensions of Energy eds F.J. Calzonetti and B.D. Solomon (D. Reidel Publishing Co., 1985) pp. 427-442 (with T.D. Georgianna and B.D. Solomon)
  78. "Declining Midwestern Comparative Advantage and the Deconcentration of Midwest Transportation Employment" Proceedings Modeling and Simulation Conference Vol.17 (Pittsburgh, PA; School of Engineering and Instrument Society of America, 1986) pp. 233-237, (with Z. Machunda and R.R. Stough)
  79. "Patterns of Funding for Scientific and Technological Research" Proceedings Modeling and Simulation Conference Vol. 17 (Pittsburgh, PA; School of Engineering and Instrument Society of America, 1986) pp. 119-123, (with A. Bailey; C. Hurst; M. Ellis)
  80. "Planning and Philosophy: The Anthropology of Action" Journal of Planning Education and Research Vol. 6, No. 2 (Winter, 1987) pp. 75-85, (with R.G. Stubbings)
  81. "The Cost Constraint in the Maximum Entropy Trip Distribution Model" Geographical Analysis Vol. 19, No. 1 (Jan., 1987) pp. 90-93, (with F.Y. Phillips)
  82. "Land and Landlessness Among Rural to Rural Migrants in Nepal's Terai Region" International Regional Science Review Vol. 12, No. 2 pp. 189-209, (with T. Dignan, D. Conway and N.R. Shretha)
  83. "Considerations in Extending Shift-Share Analysis" Growth and Change Vol. 18, No. 2 (Winter, 1987)

## ACADEMIC PUBLICATIONS

84. "Spatial Restructuring of Manufacturing and Employment Growth in the Rural Midwest" Economic Geography Vol. 63, No. 4 (Oct., 1987) pp. 319-333 (with Z. Machunda)
85. "Evaluating Capital Grants for Regional Development" in Regional Economic Development: Essays in Honour of Francois Perroux eds. B. Higgins and D. J. Savoie (Boston, Unwin: 1988) pp. 330-373 (with T. Dignan)
86. "Discrete Spatial Choice Modeling and the Axiom of Independence from Irrelevant Alternatives" Socio-Economic Planning Sciences Vol. 22, No. 6, 1988 pp 241-251 (with D. Good and T. Dignan)
87. "Infrastructure Investment for Basic Research: U. S. Patterns in University Science and Technology" in New Approaches to Infrastructure eds. T. Toonen, R. R. Stough (Leyden, Netherlands; J.J. Groen: 1988) pp 321-346 (with R.R. Stough)
88. "The Decomposition of Spatial Change in Employment: An Information Theoretic Shift-Share Extension" Papers of Regional Science Vol.65, 1988) pp. 101-113 (with Z. Machunda)
89. "The Nature and Evaluation of Megaprojects: Transgenerational, Transnational and Preference Stability Issues" in Public Infrastructure Redefined eds. L.J. Roborgh, R. R. Stough and Th. A. Toonen(Leyden, Netherlands; J.J. Groen: 1988) pp. 125-130, (with R.R. Stough)
90. "A Temporal Model of Innovation Diffusion with Externalities: A Case of BITNET", Proceedings Modeling and Simulation Vol. 20 (Pittsburgh, PA: School of Engineering and Instrument Society of America, 1989) (with B. Yoon and R.R. Stough)
91. "Homilies for Applied Geographers" in Applied Geography ed. M. S. Kenzer, (Dordrecht, Netherlands; Kluwer Pub., 1989) with R. G. Stubbings, pp. 23-34
92. "Risk Assessment of Water Allocation and Pollution Treatment Policies in a Regional Economy: Reliability, Vulnerability, and Resiliency in the Yellowstone Basin of Montana", Journal of Computers, Environment and Urban Systems, Vol. 13, 1989) pp. 75-94 (with T.D. Georgianna)
93. "Perspective and Overview of U.S. Science and Technology Policy" Proceeding of the First Korea-U.S. Seminar on Science and Technology Policy, Seoul, Korea: Korean Institute of Science and Technology (CSTP) and the National Science Foundation, 1989
94. "A Sensitivity Assessment of Uncertainty in Infrastructure Expansion" Annals of Regional Science (Vol. 23, 1989) pp. 299-309 (with A. Krmenc)
95. "Regional Efficiencies of Building Sector Research in Sweden: An Introduction" Journal of Computers, Environment and Urban Systems, Vol. 14, No. 2, 1990, pp. 117-132, (with N. Sarafoglou)

## ACADEMIC PUBLICATIONS

96. Guest Editor, Special Issue on Data Envelopment Analysis for Journal of Computers, Environment and Urban Systems Vol. 14, No. 2, 1990, pp. 85-175, (with R.R. Stough and H.F.F Schroff)
97. "New Methodology in Context: Data Envelopment Perspective" Journal of Computers, Environment and Urban Systems Vol. 14, No. 2, 1990, pp. 85-87, (with R.R. Stough and H.F.F Schroff)
98. "Regional Analysis and Planning for Educational Program Design" Proceedings Modeling and Simulation Vol. 21, No. 1, 1990 pp. 147-152, (with W.M. Bowen, R.R. Stough)
99. "Extending Multiple Objective Programming for Siting Decision Sensitivity" Proceedings Modeling and Simulation Vol. 21, 1990 pp. 153-158, (with A. Desai, V.E. Storbeck, H.E.F. Schroff and Y. Xiao)
100. "The Impact of Space on the Application of Discrete Choice Models", Review of Regional Studies, Vol. 20 No. 2 1991, pp. 39-49 (with A.S. Fotheringham)
101. "Forskningens effektivitet vid nationalekonomiska och Foretagsekonomiska institutioner i Sverige" Relative Efficiencies in Business and Economics Programs in Sweden, Ekonomisk Debatt, 3, 1991, pp. 239-243, (with N. Sarafoglou)
102. "Constraints in Modeling Hospital Siting: The Northern Virginia Case Study" Proceedings Modeling and Simulation Vol. 22, 1991 (with H. Shroff and T.R. Gulledge)
103. "Multiple Objective Programming for Siting Decision Sensitivity" Regional Science Review Vol. 18, 1991 pp. 71-80 (with T.R. Gulledge, H.F.E. Shroff, A. Desai, J.E. Storbeck)
104. "Structural Problems in DEA Modeling" Proceedings Modeling and Simulation Vol. 23, 1992 (with T. Gulledge and H.F.E. Shroff)
105. "Siting Efficiency of Long Term Care Facilities in Northern Virginia: D.E.A. Approach" Proceedings Modeling and Simulation Vol. 23, 1992 (with H.F.E. Shroff and T.R. Gulledge)
106. "Modeling Uncertainty in Transportation" Proceedings Modeling and Simulation Vol. 23, 1992 (with L. Qiangsheng)
107. "Policy Analysis and Uncertainty: Lessons from IVHS Transportation Development Process" Computers, Environment and Urban Systems Vol. 17, 1993) pp. 1-14 (with L. Qiangsheng)
108. "Regional Development Strategies and Industrial Decision Making: A European Example" in Moving Frontiers: Economic Restructuring, Regional Development and Emerging Networks eds. J.R. Cuadrado-Roura, P. Nijkamp and P. Salva, Avebury Press, Aldershot, MA, pp. 317-336 (with T. Dignan and L. Qiangsheng)

## ACADEMIC PUBLICATIONS

108. "Uncertainty in Infrastructure Management" in Infrastructure Planning and Management eds. J.L. Gifford, D.R. Uzerski and S. McNeil American Society of Civil Engineering, New York, NY 1993 pp. 452-461
109. "Prioritizing Regulatory Policy in Pipeline Safety" Journal of Contingencies and Crisis Management Vol. 1, No.2, pp. 90-100 1993 (with W.D. Perry)
110. "Environmental Decision Models: U.S. Experience and A New Approach to Pollution Management" Environment International Vol 19, pp. 261-275, 1993) (with S. Ratick, W.M. Bowen, and James Cummings-Saxon)
111. "Pacific Regional Science" Papers in Regional Science Vol. 72, No. 2 April, 1993 pp. 101-102
112. "A Spatial Efficiency Framework for the Support of Locational Decision" Data Envelopment Analysis: Theory, Methodology and Application eds Charnes, Cooper, Lewin and Seiford, 1994) Kluwer Academic Publishers, pp. 235-252 (with A. Desai and J.V.E. Storbeck)
113. "Toward A Pollution Abatement Monitoring Policy: Measurements, Model Mechanics and Data Requirements" Environmental Professional Vol. 16, 1994, pp. 292-303 (with S. Ratick and J. Cummings-Saxton)
114. "Information Based Uncertainty Management of IVHS Technologies" Proceedings of the 1994 Korea-USA Symposium on IVHS and GIS-T sponsored by the Korean Engineering Foundation and the US National Science Foundation, June 7-10, 1994, pp. 377-421, Seoul, Korea
115. "Environmental Priorities and Individual Differences: Metropolitan Cleveland" Environmental Professional Vol. 16, 1994, pp. 304-313 (with Wm. Bowen)
116. "Privacy and the Intersection of Geographical information and intelligent systems," in H.J. Onsrud (ed.) Proceedings of the Conference on Law and Information Policy for Spatial Databases, Arizona State University College of Law, October 1994, pp.198-211 (with S. Alpert)
117. "Fundamentals of Infrastructure Financing with Respect to Intelligent Transportation Systems" Built Environment Vol 2014 1995 pp.246-254 (with C. Arieira, S. Burhans and N. Pandit)
118. "Information and Uncertainty in Infrastructure Project Management," Proceedings The Fourth International Conference on Computers in Urban Planning and Management July 1995, Melbourne Australia pp. 571-586
119. "Toward Environmental Justice: Spatial Equity in Ohio and Cleveland" Annals of the Association of American Geographers Vol. 85(4) 1995 pp. 641-663 (with W.M. Bowen, M.J. Salling, E.J. Cyran)

## ACADEMIC PUBLICATIONS

120. "Managing Investments in Emerging Technologies: The Case of ITS/IVHS," ITS Journal Vol. 3(1), 1995 (with F. Phillips, L. Qiangsheng, N. Pandit and C. Arieira.)
121. "University Productivity in Sweden: A Demonstration and Explanatory Analysis for Economics and Business Programs" Annals of Regional Science Vol 30 (3) 1996 pp. 285-304 (with N. Sarafoglou)
122. "Transportation, Technology and Governance in Edge Cities: Implications for Asian and Pacific Urbanization" Proceedings of the Fourth Asian Urbanization Conference eds. L-H.N. Chiang, J. F. Williams and H.L. Beduarek, East Lansing, Michigan, Michigan State University. 1996, pp. 15-34, (with R.R. Stough and W.M. Bowen)
123. "L'urbanisation peripherique et l'evolution du complexe regional de Washington", L'Espace Geographique n.4 pp.301-308, 1996, (with R.R. Stough and H. S. Campbell, Jr.)
124. "Space, Technology and the Edge City," The Korean Review of Public Administration v.1, n.1, pp. 125-176, 1996 (with R. Stough)
125. "Spin Glass Modeling of Congestion and Emissions: An Exploratory Step" Transportation Research C4(6) 1996 pp.407-424, (with R. Kulkarni and R.R. Stough)
126. "Regional Port Dynamics in the Global Economy: The case of Kaohsiung, Taiwan" Maritime Policy and Management v.24(1) pp. 93-113, 1997 (with Y.M. Hsing and R.R. Stough)
127. "Economic Transition at the Edge of Order and Chaos: China's Dualist and Leading Sector Approach" Journal of Economic Issues Vol 31 March 1997 pp. 1-23 (with D. Jin)
128. "Small Business Entrepreneurship in the High Technology Services Sector: An Assessment for the Edge Cities of the National Capital Region" Small Business Economics Vol 9 1997 pp 1-14 (with R.R. Stough and H.S. Campbell Jr.)
129. "Productivity Change in Manufacturing Regions: A Multifactor/Shift-Share Approach" Growth and Change v.28 Spring 1997, pp. 201-221 with M. Dinc
130. "The Northern Virginia Economy: The Changing Role of Federal Spending" in Research in Urban Economics v.11 ed. R.D. Norton JAI Press, 1997, pp.145-161, with S. Fuller and L. Qiangsheng
131. "Investment Policy and Innovation Management: An Exploratory Analysis" Innovative Behavior in Space and Time. Chap.13 eds. C.S. Bertuglia, S. Lombardo and P. Nijkamp, Springer-Verlog Berlin, Gr. 1997 pp.253-275 (with F. Phillips, N. Pandit and C. Arieira)
132. "Hospital Siting Using Spatial Efficiency: A DEA Approach" Socioeconomic Planning Science vol. 31 1997 (with H.F.E. Shroff and T.R. Gullede)
133. "Intermodalism," Journal of Transport Geography 5 (i):1997 pp.21- 22

## ACADEMIC PUBLICATIONS

134. "Infrastructure," Journal of Transport Geography 5 (i):1997 pp.23-23
135. Introduction to the special issue: "The Regional and Urban Effects of High-Speed Trains," Annals of Regional Science, 31:1-20, 1997, with U. Blum and C. Karlsson
136. "Labor Markets and Regional Transportation Improvements: The Case of High Speed Trains," Annals of Regional Science, 31:57-76, 1997
137. "Uncertainty as a Management Evaluation Tool for Infrastructure Projects," chapter in M. Chatterji (ed.) Regional Science Perspectives for the Future, 1997, St. Martin's Press, New York, pp.127-143 with F.Y. Phillips and R. K. Srivastava
138. "Mega Project Impact Assessment," chapter in M. Chatterji (ed.) Regional Science Perspectives for the Future, St. Martin's Press, New York, 1997, pp.384-398, with R.R. Stough.
139. "An Extended and Integrated Approach to Shift-Share: Decomposition Analysis of the Washington Metropolitan Economy," Applied Geographic Studies, 1(4): 233-252, 1997, with L. Qiangsheng and M. Dinc
140. "Globalization y Economia Sin Fronteras: Perspectivas Para Una Ciencia Regional Del Siglo XXI" trans. De Jorre R. Serrano Chaplin, Desarrollo Regional Urbano en Mexico A Finales Del Siglo XX, eds. S. Rodriguez, J. Serrano, A. Javier Villas tomol "teorias Y Metodologias en Ciencias Regionales y Urbanos Mexico 1997 (Mexico 1997 (ISBN: 968-36-6267-4) pp.21-38
141. Pollution Prevention Frontiers: A Data Envelopment Simulation" Chap. In Environmental Program Evaluation: A Primer eds. G.J. Knapp and T.J. Kim. Urbana, Illinois Press, 1997, pp.68-84 (with S. Ratick and J. Cummings-Saxon)
142. "Regional Governance and Economic Development: Lessons from Federated States" in Regional Governance and Economic Development Vol.7 ed. M. Danson, London UK: Pion Ltd. 1997, pp.68-84 (with G.C. Maas, R. Stough, J.D. Riggle)
143. "Uncertainty as a Management Evaluation Tool for Infrastructure Projects" Chap. In Regional Science: Perspectives for the Future ed. M. Chatterji, New York, NY; St. Martins/MacMillan Press, 1997 pp.127-143 (with F.Y. Phillips and R.K. Srivastava)
144. REGIONAL DYNAMICS: MODERN CLASSICS IN REGIONAL SCIENCE, Books Two vol. book editor, Cheltenham, U.K.: Edward Elgar Pubs, 1997 (edited with K. Button, P. Nijkamp and L. Qiangsheng) p.1172
145. "The Federal Urban Policy Agenda: Recent Past and New Realities," Annals of the American Academy of Social and Political Sciences v.551, May 1997, pp.73-88, with R. Stough
146. "MegaProject Impact Assessment" Chap. In Regional Science: Perspectives for the Future ed. M. Chatterji, New York, NY; St. Martins/MacMillan Press, 1997 pp.384-398 (with R.

## ACADEMIC PUBLICATIONS

- Stough) REPRINTED in Classics in Transportation Analysis Series Transport Infrastructure eds. R. Stough, R. Vickerman, K. Button, P. Nijkamp, UK Cheltenham: Edward Elgar Pubs. (2002)
147. "A Comparative Evaluation of Shift-Share Models and Their Extensions" Australasian Journal of Regional Studies 4(2): 275-302, 1998, with M. Dinc and L. Qiangsheng
148. FLYING INTO THE FUTURE: AIR TRANSPORT POLICY IN THE EUROPEAN UNION, Book Cheltenham UK: Edward Elgar Pubs, 1998 (with K. Button and R. Stough) p. 199
149. "International Trade and Shift-Share Analysis: A Specification Note" Economic Development Quarterly Vol. 10(4) Nov. 1998 pp.337-343 with M. Dinc
150. "International Trade and Shift-Share Analysis: A Specification Note, Rejoinder" Economic Development Quarterly Vol. 10(4) Nov. 1998 pp. 351-354 with M. Dinc
151. "A Regional Perspective on Universal Service in Telecommunication: Telecommunications Policy Journal, Vol 22(6) 1998 pp. 541-553 (with M. Dinc, R. Stough and S. Yilmaz)
152. "Regional Productivity Change in Canadian Manufacturing: A Multifactor Shift-Share Approach" Canadian Journal of Regional Science Vol. 21(3) 1998 pp.385-414 with M. Dinc and W. Anderson
153. "Siting Efficiency of Long-term Health Care Facilities" Socio-Economic Planning Sciences Vol 32 (1) 1998 pp 25-43 (with H.F.E. Shroff, T. Gulledege, M.K. O'Neill)
154. "Sources of Regional Inefficiency" Annals of Regional Science Vol. 33(4), 1999 pp.469-490 with M. Dinc
155. "Regional Efficiency in the Manufacturing Sector: Integrated Shift-Share and Data Envelopment Analysis" Economic Development Quarterly Vol. 13(2) 1999 pp. 183-199 (with M. Dinc)
156. "Globalization and the Borderless Economy: Regional Science in the Twenty First Century" in Regional Cohesion and Competition in the Age of Globalization (eds.) H. Kohno, P. Nijkamp, and J. Poot, Edward Elgar Pubs, 1999 pp. 26-45 with M. Dinc
157. "Space, Technology and the Edge City: Patterns of Service and Infrastructure Investment – The U.S. National Capital Region" Chap. 6 in East West Perspectives on 21st Century Urban Development: Sustainable Eastern and Western Cities in the New Millennium (eds. J. Brotchie, P. Newton, P. Hall, J. Pickey) Aldershot U.K., Ashgate Pubs. 1999 pp.147-178 with R. Stough
158. "Toward an Information Entropy Model of Job Approval Rating: The Clinton Presidency" Entropy Vol. 1 1999 pp. 37-54 with R. Kulkarni and R. Stough Online Journal [www.mdpi.org/entropy](http://www.mdpi.org/entropy)

## ACADEMIC PUBLICATIONS

159. "Relative Efficiency of NIH's General Clinical Research Centers: An Application of DEA to Medical Research Infrastructure" Journal of Healthcare Technology and Management Vol. 2 (2000): 403-424 (with G.S. Philogene and M. Dinc)
160. "Towards Modeling of Communities of Practice (CoPs): A Hebbian Learning Approach to Organizational Learning" Journal of Technological Forecasting and Social Change Vol. 64 (2000) pp. 71-83 with R. Kulkarni and R. Stough
161. "Intelligent Transport Systems Benefit Priorities: An Application to the Woodrow Wilson Bridge" Journal of Transport Geography Vol. 8 (2000) pp. 129-139 with W. Bowen, C.R. Arieira, S. Burhans, P.L. Salem and H. Safie
162. "Environmental Justice: Race or Income-Alternative Perspectives" Social Science Quarterly Vol. 81 (2000) No. 3 pp. 885-888 with W. Bowen
163. "The Debate Over Environmental Justice" Social Science Quarterly Vol. 18 (2000) No. 3 pp. 892-894 with W. Bowen
164. "Towards A Percolation Model of Urban Accessibility: An Exploratory Step" Computer, Environment and Urban Systems 24 (2000) 421-434 with R. Kulkarni, R. Stough
165. "Transportation Systems and Economic Development" in Handbook in Transport Systems and Traffic Control (eds. K. Button and D. Henscher) Pergamon, Oxford UK, 2000: 255-268 (with K. Button)
166. "Spatial Issues in Environmental Equity" International Journal of Environmental Technology and Management 1 (2001): 17-31 (with S. Lall and M. Trice)
167. "The Impact of Telecommunication Infrastructure Investment on Sectoral Growth" Australasian Journal of Regional Studies 7 (3) 2001: 383-397 (with S. Yilmaz and M. Dinc)
168. "The Woodrow Wilson Bridge: Application of Alternative Methodologies to ITS" in Intelligent Transport Systems: Cases and Policies (ed.) R. Stough (with W.M. Bowen and L. Schintler), Cheltenham, UK: Edward Elgar Pubs (2001) pp. 152-266.
169. "Change in Manufacturing Productivity in the Southern US: Implications for Regional Growth Policy" Chap. 18 in Theories of Endogenous Regional Growth eds. B. Johansson, B Karlsson, R. Stough, Springer-Verlag, Berlin 2001: 368-392 (with M. Dinc).
170. "Geographic and Networks Neighbors: Spillover Effects of in Telecommunication Infrastructure" Journal of Regional Science 42 (2) 2002: 339-360 (with S. Yilmaz and M. Dinc)
171. "Substitution and Complementarity Effects Between Telecommunication and Transportation: A Demand Approach" The Region in the New Economy (eds. Y. Higanoi, P. Nijkamp, J. Poot, and K. V. Wyk) Ashgate, Burlington VT, 2002, pp. 35-45

## ACADEMIC PUBLICATIONS

172. Co-Guest Editor “Special Issue – Regional Labor Markets in Transition” Papers in Regional Science: Journal of the Regional Science Association International Vol 81 (3) July 2002: 301-417 (W. C. Karlsson and U. Blum)
173. “European Integration and International Trade in Manufacturing: Productivity Considerations and Employment Consequences” in Regional Policies and Comparative Advantage (eds. B. Johansson, C. Karlsson, and R. Stough) Edward Elgar, UK, 2002, pp. 391-425 (with M. Dinc)
174. “Efficiency Measurement with Linear Economic Models” (2003) Journal of Applied Economics 35 (2003) 1459-1467 with N.K. Womer, H. E. F. Shroff, and T. Gullede
175. “Telecommunications Infrastructure Policy Across US States: Investment Impacts and Efficiency Concerns” in Innovation, Entrepreneurship, Regional Development and Public Policy in the Emerging Digital Economy (ed. I. Johansson) University of Trollhatrend Uddervalla, Sweden 2003: 143-168 (with M. Dinc and S. Yilmaz)
176. “Sustainable Institutions for Transportation Management: Principles and Evolution” in Transportation Engineering and Planning (ed. T. J. Kim) in The UN Encyclopedia of Life Support Systems: (EOLSS) Eolss Publishers, 2003, Oxford UK
177. “Integrating Models for Regional Development Decisions: A Policy Perspective” in Annals of Regional Science 37 (2003): 31-53 (with M. Dinc, M. Tamicular)
178. “Estimating Sources of Regional Manufacturing Productivity Using Shift-Share Extensions” in Economics of Disappearing Distance (eds A. Andersson, B. Johansson, W. Anderson) Burlington, VT, Ashgate Pub. 2003 p 76-114 (with M. Dinc and J. H. P. Paelinck)
179. “Analytical Alternatives in Intelligent Transportation System, (ITS) Evaluation” in Economic Impacts of Intelligent Transportation Systems: Innovation and Case Studies (eds. E. Bekiaris and Y. J. Nakanishi) Research in Transportation Economics, Vol 8, Amsterdam, Elsevier, 2004 p. 121-143 (with Ming Li)
180. “The FAA and Microwave Landing Systems” in Defining Aerospace Policy: Essays in Honor of Francis T. Hoban (eds. K. Button, J. Lammersen-Baum and R. Stough) Ashgate, Burlington, VT 2004 p. 134-148
181. “Toward a Theory of Public Sector Entrepreneurship” in Transatlantic Perspectives on Liberation and Democratic Governance (eds. E. Bohne, C. F. Bouser and K. M. Spencer) Lit Verlag Munster, Gr. 2004 (with G. Shockley, P. Frank, R. Stough) 489-518
182. “Data Envelopment Analysis (DEA)” in Encyclopedia of Social Measurement Vol. I, Amsterdam, Elsevier, 2004 pp. 10-18 (with M. Dinc)
183. HANDBOOK OF TRANSPORT GEOGRAPHY AND SPATIAL SYSTEMS, Book co-edited with Henschel, Button and Stopher, Amsterdam, Elsevier (2004) p.625

## ACADEMIC PUBLICATIONS

184. "Transportation Location and Environment Justice: A U. S. Perspective" Handbook of Transport Geography and Spatial Systems, eds. D. Henschler et.al., Amsterdam: Elsevier (2004) pp. 43-63
185. "Sustainable Transportation Institutions and Regional Evolution: Global and Local Perspectives" in Journal of Transport Geography, Vol. 25: 25-40, 2004, Correction Vol. 26: 2006- (with J. Gifford, D. Pelletiere, W. Anderson and T.R. Lakshmanan)
186. "The Stability of Communities of Practice in a Knowledge Management Model" in Knowledge Spillovers and Knowledge Management eds. C. Karlsson, P. Flensburg and S. A. Horte, Cheltenham, Edward Elgar UK 2004 with R. G. Kulkarni and R. R. Stough pp. 423-440.
187. "Political Geography, Public Policy and the Rise of Policy Analysis" in Applied Geography (eds. A. Bailly and L. J. Gibson) Amsterdam: Kluwer Academic Pubs. 2004 (with W. Xie and L. Ding)
188. "Elements of a Knowledge Network Learning Model" in Regions in Competition and Co-operation eds. I. Johnason and R. Dahlberg Uddevalla: University of Trollhattan/ Uddevalla, Uddevalla Sweden 2005 pp. 295-304
189. "Productivity, International Trade and Reference Area Interactions in Shift-Share Analysis: Some Operational Notes" Growth and Change Vol. 36 (3) 2005 pp 374-394 (with M. Dinc)
190. "Technology, Innovation and Latecomer Strategies: The Case of the Mobile Handset Manufacturing Sector in China" (2009) Chapter 13 in Entrepreneurship and Innovations in Functional Regions, eds. C. Karlsson, R. Stough and B. Johansson, Cheltenham, UK Edgar Elgar pp. 349-369 (with L. Ding)
191. **ASSESSING AND MANAGING THE ECOLOGICAL IMPACTS OF PAVED ROADS**, Book National Research Council of the National Academy of Sciences co-panelist with L. H. Gunderson et. al. Washington DC, The National Academies Press (2005) p. 294
192. **INFRASTRUCTURE: THE GLUE OF MEGACITIES**, Book with contributions by P. Nijkamp et. al. The Megacities Foundation Lecture No. 9 Kenniscentrum Grote Steden, The Hague, The Netherlands (2006) p. 134
193. "Economic Development Theory and Practice: The Indian Development Experience in Information Communication Technology and Economic Development: Learning from the Indian Experience (eds. T. Thatchenkery, R.R. Stough) Cheltenham, U.K. Edward Elgar (2005) pp. 11-28 (with R. Stough and M. E. Salazar)
194. "Utilization of Telecommunications Infrastructure: Efficiency Considerations and Output Consequences in the United States" in Regional Development and Conditions for

## ACADEMIC PUBLICATIONS

- Innovations in the Network Society (eds. M. van Geenhuizen, D. V. Gibson and M. V. Heitor) Purdue University Press, West Lafayette. IN (2005) (with S. Yilmaz and M. Dinc)
195. “Multiplicands Data and the Distribution of Environmental Expenditures in the Upper Mississippi River Basin” (2006) International Journal of Environmental Technology and Management Vol. 6 (6) pp. 553-563 (with K. Button, K. Cox and Qingshu Xie)
196. “The Role of Telecommunications Infrastructure in Regional Economic Growth in China” (2006) Australasian Journal of Regional Studies Vol. 12 (3) pp. 165-186 (with Lei Ding)
197. “Traffic Grammar and Algorithmic Complexity in Urban Freeway Flow Patterns” (2007) Networks and Spatial Economics (Special Issue: Transport Networks and Metropolitan Development: New Analytical Departures)
198. “Network Usage Patterns and the Substitution and Complementarity Effects Between Telecommunications and Transportation” in Structural Change in Transportation and Communications in the Knowledge Society (eds. K. Kobayashi, T.R. Lakshmanan and Wm. P. Anderson) Edward Elgar, Cheltenham, UK (with S. Lall, R. Stough and S. Yilmaz) 2006 pp. 151-163
199. “Exploring the Evolutionary Traffic Flow Landscape with a Fitness Approach” (2007) Journal Ekonomi Malaysia 41 (with R.G. Kulkarni and R. Stough) pp. 17-41
200. “Evolutionary Traffic Flow Landscapes: A Fitness Approach for ITS Management” (2007) in Network Science, Nonlinear Science and Infrastructure Systems (ed. Terry L. Friesz) Springer-Science NY, NY (with R. G. Kulkarni and R. Stough) pp. 123-146
201. Applied Geography for the Entrepreneurial University (2008) Economica, Paris (edited with A. Bailly and J.L. Gibson)
202. “Introduction” in Applied Geography for the Entrepreneurial University (2008) Economica, Paris (edited with A. Bailly and J.L. Gibson) pp. 1-6
203. “Making Geography Findings Matter: Implications for Applied Research and Teaching” in Applied Geography for the Entrepreneurial University (2008) Economica, Paris (edited with A. Bailly and J.L. Gibson) pp. 7-38
204. “The Evolution of Applied Geography in the Entrepreneurial Universe: Lessons Learned and New Challenges” in Applied Geography for the Entrepreneurial University (2008) Economica, Paris (with A. Bailly and J.L. Gibson) pp. 169-176
205. “Shift-Share Analysis” in International Encyclopedia of Human Geography (2008) (with R.W. Jackson) Elsevier
206. “Spatial and Functional Clustering: A Comparative Analysis of the Baltimore and Washington D.C. Metropolitan Regions in the U.S.” in Handbook of Research on Innovation and Clusters: Cases and Policies (2008) (with G. Yang and R.R. Stough) Edward Elgar, Cheltenham UK, pp. 343-358

## ACADEMIC PUBLICATIONS

207. “Telecommunications Infrastructure and Regional Income in China: Panel Approaches”, Annals of Regional Science (2008) 42: 843-861 (with L. Ding and Y. Liu)
208. “The Knowledge Network and Learning in a Competitive Environment: A Learning Region Model” Studies in Regional Science, Volume 38, No. 1 (August) 2008, pp. 33-49 (with L. Ding and H Shibusawa)
209. “Hidden Order in Traffic Flows Using Approximate Entropy: An Illustration”, Chapter 9 in New Directions in Regional Economic Development (eds. Karlsson et al.), Berlin, Springer 2009, pp. 143-159 (with R. Kulkarni and R. Stough)
210. “Intrapreneurship in the Public Sector”, Chapter 7 in Non-Market Entrepreneurship: Interdisciplinary Approaches (eds. G. Shockley, P. Frank and R. Stough), Cheltenham UK, Edgar Elgar 2009, pp. 127-142 (with R. Stough)
211. “Algorithmic Complexity and Spatial Simplicity”, Chapter 5 in Complexity and Spatial Networks (eds. A. Reggiani and P. Nijkamp), Berlin, Springer 2009, pp. 61-73 (with R. Kulkarni and R. Stough)
212. “The Evolution of an Applied Geographer: A Personal Odyssey”, Research in Geographic Education, Vol. 9 (1), 2009, pp. 55 -60
213. “Reflections on Public Policy and Medicine”, World Medical and Health Policy, Vol. 1 (1), 2009. p.64
214. “Modeling the Spatial Diffusion of Mobile Telecommunications in China”, The Professional Geographer, Vol. 62 (2), 2010, pp. 248-263 (with L. Ding and H. Li)

**OTHER ACADEMIC PAPERS UNDER DEVELOPMENT**

1. “The Structure of U.S. R&D Policy (with H. Qian)
2. “Human and Social Capital Within Brazilian Families: A Regional Comparison” (with C. R. Arieira)
3. “Dynamics of Efficiency in the State Higher Education Systems in the U.S.” (with M. Dinc)
4. “The Parametricity of DEA” (with J. Paelinck)
5. “The Geography of U.S. Incubators: A Push or Pull” (with H. Qian)
6. “A Spatial Integration Perspective on Shift-Share Analysis” (with J. Parajuli)

## BOOK REVIEWS

1. H.S. Perloff (ed.), The Quality of the Urban Environment, (Baltimore: The Johns Hopkins Press for Resources for the Future, 1969), in the Journal of Regional Science, Vol. 10, April, 1970
2. K.E.F. Watt, Ecology and Resource Management: A Quantitative Approach (New York: McGraw-Hill, 1968), in the Journal of Regional Science, Vol. 10, August, 1970
3. D. Barkin and T. King, Regional Economic Development: The River Basin Approach in Mexico (Cambridge, England: Cambridge University Press, 1970), in The Hispanic American Historical Review, February, 1972
4. H. McConnell and D.W. Yaseen (eds.), Perspective in Geography: Models of Spatial Variation (DeKalb, Illinois: Northern Illinois University Press, 1971), in Geographical Analysis, Vol. 4, October, 1972, p. 434-5
5. R. Lamb, Metropolitan Impacts on Rural America (Illinois: University of Chicago, 1975), in the Annals of the Association of American Geographers, Vol. 67, March, 1977, pp. 165-166 (with D. Harner)
6. J.W. Dickey and R.W.R. Muncey, Urban Systems Research: Proceedings of the First Binational (U.S./Australian) Urban Systems Symposium, prepared for U.S. National Science Foundation and Commonwealth Scientific and Industrial Organization, Australia (Washington, D.C.: U.S. Department of Commerce, National Technical Information Service, 1975), in the Annals of Regional Science, Vol. 11, November, 1977, pp. 149-150
7. E.L. Cripps (ed.), Regional Science-New Concepts and Old Problems (London, U.K.: Pion Ltd., 1975); I Masser (ed.) Theory and Practice in Regional Science (London, U.K. Pion Ltd., 1976); M. Chatterji (ed.), Space Location & Regional Development (London, U.K.: Pion Ltd., 1976), in Geographical Analysis, Vol. 10, January, 1978, pp. 95-97
8. R.A. Leone (ed.), Environmental Controls (Lexington, Mass.: Books, D.C. Heath Co., 1976), in Annals of Regional Science, Vol. 12, March, 1978, pp. 127-128
9. J.A. Klein and K.C. Leung, The Environmental Control Industry: An Analysis of Conditions and Prospects for the Pollution Control Equipment Industry. (Montclair, N.S.: Land Mark Studies; Allanheld, Osman and Co., 1976) in Annals of Regional Science, Vol. 12, July, 1978, pp. 158-159
10. W.H. Miernyk, Regional Analysis and Regional Policy (Cambridge, M.A.: Oelgeschlager, Gunn and Hain, Inc., 1982) in Annals of the Association of American Geographers, Vol. 74, March, 1984, pp. 186-187

**BOOK REVIEWS (Continued)**

11. J.W. House, ed. United States Public Policy (Oxford, U.K.: Oxford University Press, 1983) in Geographical Review April, 1985, Vol. 75, pp. 230-232
12. W.K.D. Davies, Factorial Ecology (England: Gower Publishing Co. Ltd., 1984) in Annals of the Association of American Geographers March 1986, Vol. 76 pp. 154-155.
13. A. Ghosh and S.L. Mc Lafferty, Location Strategies for Retail and Service Firms (Lexington, Massachusetts: Lexington Books, 1987) in Journal of Regional Science Vol. 29, No. 1, 1989, pp. 120-121
14. B.J.L. Berry and J.B. Parr, Market Centers and Retail Location: Theory and Location (Englewood Cliffs, N.J.: Prentice Hall, 1988) in Computers, Environment and Urban Systems Vol. 13, 1989, pp. 51-52
15. D. Munton Hazardous Waste Siting and Democratic Choice Washington, D.C. Georgetown University Press, 1996 in Professional Geographer 1998
16. R.P. Nathan Social Science in Government: The Role of Policy Researchers (Albany, NY: The Rockefeller Institute Press, 2000) in Australasian Journal of Regional Science Vol. 7(1) 2001, pp. 111-112
17. S. Fotheringham Quantitative Geography (Beverly Hills, CA: Sage Publications, (2000) in Annals of the Association of American Geographers 92 (2, June) 2002: 361-364 (with Xie)
18. D. Holtz-Eakin and H. S. Rosen (eds.) Public Policy and the Economics of Entrepreneurship (Cambridge, MA: MIT Press, 2004) and D. Hart (ed.) The Emergence of Entrepreneurship Policy: Governance, Start-ups and Growth in the US Knowledge Economy (Cambridge, UK: Cambridge University Press, 2003) in Small Business Economics Vol. 26, 2006 pp. 301-303

**MANUSCRIPT REVIEWS (for)**

Public Administration Review  
Annals of the Association of American Geographers  
Journal of the American Planning Association  
Journal of Regional Science  
Social Science Quarterly  
Annals of Regional Science  
Economic Geography  
Geographical Review  
Regional Science Perspectives  
Geography Analysis  
Urban Geography  
Journal of Policy Analysis and Management

*MANUSCRIPT REVIEWS (for)*

Journal of Water Resources Research

Water Resources Bulletin

Paper and Proceedings of the Regional Science Association

Commercial Presses: Harper Row, Harcourt Brace, John Wiley & Sons, Sage, Longman,  
Kluwer

University Presses: University of Texas Press, Johns Hopkins Press, Indiana University  
Press, George Mason University Press

**PROFESSIONAL PUBLICATIONS**

Government Documents, Official Research Reports and Consulting Reports

## CONFERENCE PAPERS

1. "Hippodamus and Town Planning," Social Science, Vol. 41, letter to the editor, June, 1966, pp. 173-175
2. "An Operations Research Approach to Rationalization in an Urban Public Service System: The Baltimore Ambulance Problem," National Institute of Health Report for a grant in Environmental Systems Engineering, Department of Geography and Environmental Engineering, The Johns Hopkins University, Baltimore, Maryland, 1968 (with J. Liebman, et. al.), p. 25
3. "Movement Behavior Theory: Overview and Summary," Discussion Paper No. 2, Northeast Corridor Transportation Project Impact Study, Consad Research Corporation, March, 1968, p. 70
4. Site Selection and Planning Programs with Respect to Educational Reorganization in Prince Edward Island, for the Economic Improvement Corporation Joint Federal-Provincial Crown Commission, 1969 (with H. P. D. van Ginkel and C. Russell), p. 50
5. The Montreal International Airport: Planning Principles for Urban Development, Canadian Department of Transport, September, 1969 (with members of the Montreal Airport Environment Group of the Department of Transport's [Canada] Airport Taskforce), p. 250
6. Regional Planning Alternatives in Pahang Tenggara, Economic Planning Unit, Office of the Prime Minister, Government of Malaysia, Kuala Lumpur, Malaysia, 1970 (with M. Chevalier, H. P. D. van Ginkel), p. 35
7. Salvador, Bahia, Brazil: Airport Impact Study, (Montreal, Ecos Limited, 1970) for the Department of Civil Aviation, Government of Bahia, Brazil, March, 1970 (with H. P. D. van Ginkel, A. A. Peters, et. al.), p. 250
8. "Growth Poles and the Urban Hierarchy of Malaysia," Asia Society Discussion Paper, Southeast Asia Development Group, Conference on Urban Hierarchies and Development in Southeast Asia, December, 1970, pp. 1-20
9. Growth Poles and the Urban Hierarchy of Malaysia: Implications for Regional Modeling, Economic Planning Unit, Office of the Prime Minister, Government of Malaysia, Kuala Lumpur, Malaysia, January, 1971, p. 50
10. "An Ecological Consideration of Urban Density and Land Use," Discussion Paper, No. 3, Department of Geography, Rutgers University, New Brunswick, New Jersey, June, 1971, pp. 1-15 12.
11. Pahang Tenggara 1990: Trends and Targets, Economic Planning Unit, Office of the Prime Minister, Government of Malaysia, Kuala Lumpur, Malaysia, August, 1971 (with H. P. D. van Ginkel and B. Higgins), p. 50
12. Planning Principle with Regard to Urbanization in Pahang-Tenggara, Economic Planning Unit, Office of the Prime Minister, Government of Malaysia, Kuala Lumpur, Malaysia, August, 1971 (with H. P. D. van Ginkel), p. 35
13. "Land Use and Austin: A Multi-Media Presentation," Lyndon B. Johnson School of Public

## CONFERENCE PAPERS

- Affairs, University of Texas at Austin, 1972 (with J.E. Hazleton, et. al.), 15 min
14. Austin and Its Future: The Challenge of Growth, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, 1972 (with J.E. Hazleton, et. al.), p. 37
  15. Plan Progress Evaluation System: An Operational Manual, Economic Planning Unit, Office of the Prime Minister, Government of Malaysia, Kuala Lumpur, Malaysia, January, 1972 (with R. Hoffart and R. Rogalski), p. 70
  16. "Establishment of Operational Guidelines for Texas Coastal Zone Management," Progress Report to the Office of the Governor, State of Texas, and National Science Foundation (RANN), December, 1972 (with E.G. Fruh, et. al.), p. 120
  17. "Significant Policies," Texas Land Use, Vol IV, Research and Planning Consultant for Governor's Office, State of Texas, 1973. Seven-volume study supported in part by a 701 Urban Planning grant from the Department of Housing and Urban Development, p. 112
  18. "Regional Development and Growth Strategies for Texas," Report to the Texas Rural Development Commission, Governor's Office, State of Texas, 1973, p. 32
  19. "The Nuclear Alternative," a thirty minute FILM on the energy crisis and nuclear power as an alternative energy source, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, Austin, Texas, 1973) (with M. Blissett, et. al.)
  20. Energy in Texas: Electric Power Generation, Vol. I, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, February, 1973 (with M. Blissett, et. al.), p. 116
  21. "Post-Secondary Education in Texas," Progress Report No. 1, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, February, 1973 (with K. Tolo, et. al.), p.
  22. "State Planning for Nuclear and Electric Power," Information Bulletin No. 1, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, February, 1973 (with M. Blissett, et. al.), p. 4
  23. "Regional Impact of an Environmental Policy: Pollution Abatement of the Hudson, the Refuse Act of 1899," ABSTRACT, Proceedings of the Canadian Association of Geographers, May, 1973 (with F. Phillips)
  24. "Establishment of Operational guidelines for Texas Coastal Zone Management," Summary Report I for Office of the Governor, State of Texas and National Science Foundation (RANN), June, 1973 (with E.G. Fruh, et. al.), p. 160
  25. The Texas Coastal Zone Model," Working Paper, Conference on Mathematical Analysis of Decision Problems in Ecology, North Atlantic Treaty Organization, Scientific Division, Istanbul, Turkey, July, 1973, pp. 543-555 (W.R. Lynn and A. Charnes, Directors) (with A. Charnes, J.E. Hazleton and M. Ryan)

## CONFERENCE PAPERS

26. Prospectus-Joint Center for West Texas Environmental Studies of Texas Tech University and the University of Texas at Austin, Texas, October, 1973, p. 46
27. "Building Rural Texas," Final Report of the Texas Rural Development Commission, October, 1973, Austin, Texas, p. 106
28. Mapper Users Manual, Lyndon B. Johnson School of Public Affairs and Bureau of Business Research, University of Texas at Austin, 1974, p. 43 (with K. Tolo, et. al.)
29. Texas Atlas of Higher Education, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, 1974, p. 193 (with K. Tolo, et. al.)
30. The Impact of Alternative Environmental Policies on the Texas Coastal Zone, Division of Natural Resources and Environment, University of Texas at Austin, 1974, p. 117 (with E.G. Fruh, et. al.)
31. Coastal Zone Management Troupe, Final Non-Technical Summary Report for the Office of the Governor, State of Texas and National Science Foundation (RANN), 1974, p. 22 (with E.G. Fruh, et. al.)
32. "Establishment of Operational Guidelines for Texas Coastal Zone Management," Final Report on Economics and Land Use: Technical Assessment of Environmental Policy Impacts in the Corpus Christi Area of Texas for Office of the Governor, State of Texas, and National Science Foundation (RANN), May 31, 1974 (with J.E. Hazleton, et. al.), p. 402
33. "Texas Land Use Management: Policy Framework and Legal Basis," Texas Land Assembly Program, Texas Real Estate Center, College of Agriculture, Texas A & M University, December, 1974, p. 18 (with H.L. Cowden and B.P. Robinson)
34. Institutional Analysis of Coastal Zone Management in Texas, Policy Research Project No. 12, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, 1975 p. 150 (with R. Aldave, et. al.)
35. Post-Secondary Education Planning in Texas: Techniques for Policy Analysis, Policy Research Project No. 8, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, 1975, p. 83 (with K. Tolo, et. al.)
36. "The Role of Modernization in the Spatial Diffusion of Public Policies in the United States Between 1870-1970," Research Bibliographies, #854 (Council of Planning Librarians, Monticello, Illinois, 1975) pp. 1-41
37. "Innovation Diffusion: A Deterministic Model of Space-Time Integration with Physical Analog," Studies in the Diffusion of Innovation, Discussion Paper, Department of Geography, Ohio State University, 1975, p. 21 (with V. Mahajan and G. White)
38. "A Market-Consumer Model of Residential Property Values," Research Report No. CCS 220, Center for Cybernetic Studies, University of Texas at Austin, April, 1975 p. 35 (with R. Phillips and G. White)

## CONFERENCE PAPERS

39. "A 'Generalized Distance' Estimation Procedure for Intra-Urban Interaction," Research Report No. CCS 171, Center for Cybernetic Studies, University of Texas at Austin, April, 1975, p. 12 (with A. Charnes and R. Phillips)
40. "New Equivalencies and Dualities from the Extremal Solution of the Gravity Model of Spatial Interaction: An Approach Using an Unconstrained Equivalent of an Extended Geometric Programming Problem and Its Dual," Research Report, Center for Cybernetic Studies, University of Texas at Austin, April, 1975 p. 19 (with F. Phillips and G. White)
41. "Innovation Diffusion: A Deterministic Model of Space-Time Integration with Physical Analog," General Systems Depository, (Center for Advanced Technology, State University of New York at Binghamton, 1975), pp. 1-18, also published by ABSTRACT, International Journal of General Systems, Gordon and Breach Sciences Publishing, New York, 1976 (with V. Mahajan and G. White)
42. "Institutional Impact of Alternative Coastal Zone Management Systems," Special Report IV in Methodology to Evaluate Alternative Coastal Zone Management Policies report to Research Applied to National Needs (RANN) Division of the National Science Foundation (NSF) and the Office of the Governor of Texas, 1976, p. 150 (also published as Institutional Analysis of Coastal Zone Management in Texas, Policy Research Project No. 12)
43. The Impact of Environmental Policies on Barrier Island Development, Final Report to National Science Foundation (RANN) and the Office of the Governor, State of Texas, 1976, p. 125 (with E.G. Fruh, et. al.)
44. "Modeling the Diffusion of Public Policies," Studies in the Diffusion of Innovation, Discussion Paper, Department of Geography, Ohio State University, 1976, p. 27 (with V. Mahajan and Kumar, K.C.)
45. Methodology to Evaluate Alternative Coastal Zone Management Policies Vol. 1, (Methodology) and Vol. 2 (Documentation) Final Report to the National Science Foundation (Research Applied to National Needs Division) and Office of the Governor of Texas, 1976, p. 1400 (with G. Fruh, et. al.) Grant No. AEN 74 13590-A01
46. "The Magic Valley," a thirty minute FILM on the problems of colonies and land-use management in the Texas Lower Rio Grande Valley, Lyndon B. Johnson School of Public Affairs, 1976 (Eagle Award by the Council on International Nontheatrical Entertainment and selected to represent the U.S. abroad in 1978)
47. Lower Rio Grand Valley Project," Progress Report, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, February, 1976, p. 4 (J.E. Hazleton, et. al.)
48. Environment and Energy on the Texas Gulf Coast: An Economic Evaluation Model of Alternative Policies," Working Papers for Environmental Assessment of Socio-Economic Systems, North Atlantic Treaty Organization, Scientific Division, Istanbul, Turkey, October, 1976, p. 39 (W.H. Ittelson and D. Burkhardt, directors) (with J.E. Hazleton and T. Kleeman)

## CONFERENCE PAPERS

49. "South Texas Colonias," Summary and Recommendations Report, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, 1977, p. 25 (J.E. Hazleton, et. al.)
50. Reports to Vice-President, Ford Foundation, Office of Resources and Environment, New York, New York
  - a. The Lake Nasser - Nile River Water Quality Project: Review, Evaluation and Recommendations (also to EPA, Washington, October, 1976 and April, 1977 (funded and refunded)
  - b. Systems Analysis of Mediterranean Desert Ecology of Northern Egypt (SAMDENE): Review, Evaluation and Recommendations (also EPA, Washington) October, 1976 and April, 1977 (funded and refunded)
  - c. Marine Resource Research and Training Projects, Alexandria: Terminal Evaluation, January, 1978
  - d. Gulf of Akaba Marine Station Environmental Pollution Project, Jordan: Project Proposal and Evaluation, June, 1977 (funded)
  - e. Desert Reclamation Center, University of Alexandria Project: Terminal Evaluation, January, 1978
  - f. Institute for Environmental Studies, University of Khartoum: Project Proposal, April, 1978 (funded)
51. Impacts of Offshore Oil Development on Coastal Environments - A Simulation, by J.P. Maul, L. Iozzi and N.P. Psuty, University, 1979, p. 22 (reprinted from Coastal Zone Management Troupe)
52. Energy Facility Siting Review: The Indiana Coastal Zone Management Plan, Final Report to the Office of Coastal Zone Management, NOAA, U.S. Department of Commerce and the Indiana State Planning Services Agency, August 15, 1979, p. 200
53. Indiana Coastal Energy Facilities Inventory, Final Report to the Coastal Energy Impact Program, NOAA, U.S. Department of Commerce and the Indiana State Planning Services Agency, August 15, 1979, p.
54. Elements of a One-Stop Process for Energy Facilities in Indiana, Report to the Coastal Energy Impact Program, NOAA, U.S. Department of Commerce and the Indiana State Planning Services Agency, August 15, 1979, p. 15
55. State Energy Policy: Energy Facility Siting in Northwest Indiana, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, September, 1979, p. 200
56. The Permit Process for Energy Facilities in Indiana: Alternative Considerations, Report to the Coastal Energy Impact Program, NOAA, U.S. Department of Commerce and the Indiana State Planning Services Agency, November 30, 1979, p. 40

## CONFERENCE PAPERS

57. "Information Theoretic Considerations for an Environment and Housing Model: New Equivalencies and an Unconstrained Regression Hypothesis," Working Paper, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana, November, 1979 (with F.Y. Phillips), p. 20
58. "International Riparian Cooperation and Nile Management: Stage Three?" Working Paper, Water Quality Studies on the River Nile and Lake Nasser, (The Egyptian Academy of Scientific Research and Lake Nasser, Cairo, December, 1979), p. 20
59. "Using the Aswan Dam: A New Assessment," 1980 Proceedings of Association of American Geographers, published by ABSTRACT (Washington, D.C., A.A.G., 1980) pp. 18 (with D. Whittington)
60. "What is? What if?: An Introduction to Systems Analysis," a twenty-seven minute FILM for the Pasitam Project under contract to the U.S. Department of State, Agency for International Development, Training Office (International Development Institute, Indiana University, Bloomington, 1980) with W.J. Siffin, et. al
61. "Non-Metropolitan Growth in Indiana," Working Paper, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, Bloomington, IN, January 1980 (with D. Lantz), Submitted as Project Report to the Economic Development Administration, U.S. Department of Commerce, p. 75
62. "Information Theoretic Models of Housing and Transportation Choice Behavior: Implications for Modeling Methodology," Working Paper, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana, May, 1980 (with F. Phillips), p. 2
63. "Two Structured Models of Choice and Their Implications for Modeling Methodology," Product Development and Assurance, RP #140, (Market Research Corporation of America, Chicago, May, 1980) with F.Y. Phillips, p. 25
64. "A Multiobjective Location Model with Hierarchical Considerations: Energy Facility Siting in Indiana," Working Paper, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, Bloomington, IN, May 1980 (with B. Solomon and A. Krmeneč), p. 25
65. "Energy Facility Siting: The Role of Multiple-Objective Mathematical Programming," Working Paper, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, Bloomington, IN, May 1980 (with B. Solomon), p. 28
66. "Information Theoretic Estimation for Housing and Transportation Models: Some Polemics," published by ABSTRACT Program of the First Joint International Canadian and American Association of Geographers Regional Meetings (Ontario Division and East Lakes Division), The University of Western Ontario, Nov. 7-8, 1980, London, Ontario, Canada (with F.Y. Phillips)

## CONFERENCE PAPERS

67. "Nuclear Power Plant Siting in Northern Indiana," Association of American Geographers Program ABSTRACT (Washington, D.C., A.A.G., 1981) pp. 8 (with B. Solomon and A. Krmeneč)
68. "Information Theory and Individual Choice Behavior: MDI Implications for Regression, Entropy and Logit Modeling," Association of American Geographers Program ABSTRACT (Washington, D.C., A.A.G., 1981) pp. 24 (with F.Y. Phillips)
69. "Resources and Risk: Water Scarcity Management in Egypt," Working Paper, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, Bloomington, IN, January 1981 (with D. Whittington), p. 24
70. "Upstream Reservoir Impact on Downstream Management," Working Paper, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, Bloomington, IN, January 1981 (with D. Whittington), p. 22
71. "Issues for Upper Nile Basin Management," Working Paper, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, Bloomington, IN, November 1981 (with D. Whittington), p. 20
72. "Research Note on the Cost Constraint in the Maximum Entropy Trip Distribution Model" Product Development and Assurance ISR-RP #240 (Market Research Corporation of America, Chicago, 1982) with F.Y. Phillips, p. 8
73. "Uncertainty Models in Capacity Expansion: Stochastic Programming and Game Theoretic Considerations," Working Paper, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana, February 1982, p. 28
74. "A Policy Sensitive Coal Planning Model", Working Paper, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana, August 1982 (with F.Y. Phillips and B. Solomon)
75. "Economic Feasibility Alternatives," Southeast Indiana Water Supply Project (Final Technical Report I) prepared for the State of Indiana Department of Natural Resources, Division of Water, Water Resource Studies, September 15, 1982 (with J. Mikesell, D. Whittington, et. al.) p. 389
76. "Advisory Report," Southeast Indiana Water Supply Project prepared for the State of Indiana Department of Natural Resources, Division of Water, Water Resource Studies, October 1, 1982 (with J. Mikesell, D. Whittington, et. al.) p. 62
77. "Capacity Expansion Consideration for Local Planners," Working Paper, Center for Urban and Regional Analysis, School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana December, 1982 (with T. Georgianna, A. Krmeneč), p.26
78. "The Capacity Expansion Problem: Two Paradigms," Association of American Geographers Program ABSTRACT (Washington, D.C.: A.A.G., 1983), p. 37 (with A. Krmeneč, D. Whittington, W.F. Echelberger, Jr., and T.D. Georgianna)

## CONFERENCE PAPERS

79. "Scientific Geography, Applied Research and Public Policy Analysis" Special Issue on Scientific Geography The Pittsburgh Geography and Regional Science Newsletter ed. G. Thrall (Department of Geography, University of Florida, Gainesville, Fl.) Fall 1983 p. 10
80. "Catholic University Management School Programming," Project Design Paper for A.I.D. Mission Dominican Republic, School of Public and Environmental Affairs, Bloomington, Indiana, (with Charles Bonser, Jack Hopkins, et. al.) 1983 p. 200
81. "In the Public Service: The Center for Urban and Regional Analysis" SPEA Review Vol. 5, (Fall, 1983) pp. 4-6.
82. "Spatial Dimension of Regional Development Conference" 1982; "Pathologies of Urbanization Conference," Warsaw, Poland 1983 AAG Newsletter Reports
83. "A Strategic Response to Service Opportunities: Report 1", Service Planning and Integration Strategies, Business Service Division, Xerox Corporation, Xerox Sq., Rochester, NY. (Nov. 1983) p. 19 (with C.V. Oster, Jr.)
84. A Strategic Response to Service Opportunities: Report 2", Service Planning and Integration Strategies, Business Service Division, Xerox Corporation, Xerox Square Rochester, NY. (Nov. 1983) p. 24 (with C.V. Oster, Jr.)
85. "Capacity Expansion Under Demand Uncertainty: A Game Theoretic Approach" Association of American Geographers Program ABSTRACT (Washington, D.C., 1984 p. 272) with A. Krmenc, D. Whittington, W.F. Echelberger, Jr. and T.D. Georgianna
86. Site Visit Report on School of Public Administration, for the Academic Coordinating Committee, University Program Review, Ohio State University, Columbus, Ohio, Feb. 1984 (with D. Netzer and D.E. Stokes)
87. "Report on the International Conference on the Pathologies of Urbanization Process" Geo Journal, 1984)
88. "Lessons from a Southeast Indiana Water Project: Price, Scale and Timing in Capacity Expansion" Proceeding of the Fifth Annual Water Resources Symposium Vol. 5, (June 1984) pp. 21-23
89. Social and Cultural Trends. Business Climate Committee, Indiana Economic Development Council, 1985 (with R.R. Stough)
90. Public Sector Trends. Business Climate Committee, Indiana Economic Development Council, 1985 (with R.R. Stough)
91. Human Resources, Labor Relations and New Trends in Management. Business Climate Committee, Indiana Economic Development Council, 1985 (with R.R. Stough)
92. Industrial Processes and Technological Trends. Business Climate Committee, Indiana Economic Development Council, 1985 (with R.R. Stough)

## CONFERENCE PAPERS

93. Macro Economic Trends. Business Climate Committee, Indiana Economic Development Council, 1985 (with R.R. Stough)
94. Demographic Trends. Business Climate Committee, Indiana Economic Development Council, 1985 (with R.R. Stough)
95. "Analysis of Risk in Water Allocation Policy" Association of American Geographers ABSTRACT (Washington, D.C. 1985 #308) with T.D. Georgianna
96. Regional Development Institute Proposal for the Indiana University Trustees, New Institute Programs, June 1985 (with D. Conway)
97. Service Productivity, Tourism and Economic Development. Report to the Ministry of Tourism, Trinidad and Tobago, December 1985
98. Investment in Infrastructure for National Scientific and Technological Research: Policy Consideration, Regional Economic Development Institute Working Paper, Bloomington, Indiana, December, 1985. (with R.R. Stough)
99. Proceedings of the Second Annual Conference on Regional Development and Public Policy Bloomington and Indianapolis December, 1985 (ed. with R. Stough)
100. Strategic Planning for New Service Opportunities in Risk Management by Laicos Systems Associates for Meridian Insurance Company, Indianapolis, IN 1986. (with R.R. Stough)
101. Socio-Demographic Profile of Methodist Hospitals Service Areas by the Great Lakes Center for Public Affairs with the Regional Economic Development Institute, Indiana University, Gary and Bloomington, IN 1986. (with T. Dignan, P. Rutledge and R.R. Stough)
102. Infrastructure for Scientific and Technological Research: Policy Perspectives, Final Report, Policy Research and Analysis Division, National Science Foundation, Washington, D.C. 1986 pp. 100, (with R.R. Stough)
103. Environmental Scan for Strategic Development in Indiana Indiana Economic Development Council, Inc. 1986. (with R.R. Stough)
104. Infrastructure for Scientific and Technological Research: Policy Perspectives, Final Report, Policy Research and Analysis Division, National Science Foundation, Washington, D.C. 1986 pp. 100, with R.R. Stough
105. The Futures of Indiana: Trends Affecting Economic Change 1986-2000 Indiana Economic Development Council, Inc. February 1986. (with R.R. Stough and C. Sim)
106. Educational Needs Assessment for the Indiana Vocational and Technical College System: Ivy-Tech Region-6 Muncie and Anderson Indiana by Petersen and Leatherman for the Indiana Vocational and Technical College System, April 1986. (with R.R. Stough and C. Thomas)

## CONFERENCE PAPERS

107. Education Needs Assessment for the Indiana Vocational and Technical College System: Ivy-Tech Region 1 - Metropolitan Northwest Indiana by Petersen and Leatherman for the Indiana Vocational and Technical College System, April 1986. (with R.R. Stough, P. Rutledge and C. Thomas)
108. Proceedings of the Third Annual Conference on Regional Development and Public Policy, Regional Economic Development Institute, Bloomington and Indianapolis, IN December 1986 (ed. with R.R. Stough)
109. Educational Needs Assessment for the Indiana Vocational and Technical College System: Ivy - Tech Region 5 - Kokomo and Logansport Indiana by Laicos Systems Associates for the Indiana Vocational and Technical College System, January 1987. (with R.R. Stough and T. Dignan)
110. Proceedings of the Fourth Annual Conference on Regional Development and Public Policy, Regional Economic Development Institute, Bloomington and Indianapolis, IN, December, 1987 (ed. with R.R. Stough)
111. "Change" in Exploring Sustainability Harvard Graduate School of Design, Cambridge MA, 1988
112. "Political Organization and Regional Development in High Tech Economics" and "Economic Restructuring in the U.S. Midwest" in Proceedings of the Fifth Annual Conference on Regional Development and Public Policy, ed. by R.R. Stough, Regional Economic Development Institute, Bloomington and Indianapolis IN, December 1988
113. "Great Lakes Ports and a Changing Regional Economy from a Global Perspective", Proceedings of the Conference on Great Lakes Ports in a Changing Economy, (Burns Harbor, Merriville, IN: Great Lakes Commission and Minnesota Sea Grant Program, 1989)
114. Strategic Plan for Future of the St. Joseph County Community (in cooperation with the leadership of the City of South Bend, City of Mishawaka, St. Joseph County; Public School Corp. of St. Joseph County) South Bend, IN, 1989, (with R.R. Stough)
115. Public Policy Program Proposal, Office of the Provost, Boston University, Boston, MA 1989. (with P. Doeringer et. al.)
116. Implementing Strategic Planning for Economic Development, Report for the Economic Development Department of the City of South Bend; Indianapolis, IN, 1990 (with R. R. Stough)
117. "Research Efficiencies in Swedish Universities, Center for Regional Science-cerum working paper (CWP-1990;14), Umea University, Umea, Sweden (with N. Sarafoglou)
118. "Institutional Response to Environmental Extremes" Decision-Making in Environmental Management School of Management Sun-Yat Sen National University and Taiwan Environmental Protection Agency, Kaoshiung, Taiwan 1991

## CONFERENCE PAPERS

119. "Regional Development Policy and Industrial Decision-Making; A European Example" Working Paper #92:6, The Institute of Public Policy, George Mason University, Feb. 1992 (with Q. Li)
120. "Environmental Decision Models: U.S. Experience and New Approaches" Working Paper School of Management, National Sun-Yat Sen University, Kaoshiung, Taiwan 1992 (in Chinese) National Taiwan University, Taipei (PRSCO) 1992 (in English)
121. "Evaluation Institutional Effectiveness: Development of Concepts and Methods for Incorporation into IVHS Field Operations" Final Report Federal Highway Administration U.S. Department of Transportation (Feb. 1992)
122. "National Capital Region and Leadership" Summary Report Greater Washington Board of Trade, Washington, D.C., May 1992
123. Decision Theory and Individual Differences in Policy Analysis: The Nuclear Waste Repository Site Decision" Working Paper #92:14 The Institute of Public Policy, George Mason University, May 1992 (with W.M. Bowen)
124. "Report of the NACD Blue Ribbon Commission on Compensation" Guidelines for Corporate Directors National Associate of Corporate Directors, Washington, D.C., 1993
125. "A Public Infrastructure Research Agenda for the Social, Behavioral and Economic Sciences" Report National Science Foundation, Washington D.C., 1993
126. "Implementing Benchmarking" Management Accounting Guidelines #16 Certified Management Accountant The Society of Management Accountants of Canada, Hamilton, Canada, 1993
127. "Pollution Prevention Simulation" Proceedings of The Fourth Annual Conference on Environmental Policy and Management, Institute of Public Affairs Management, National Sun-Yat Sen University, Kaoshiung, Taiwan, October 1993 (with S. Ratick and J. Cummins-Saxton)
128. "The Role of Infrastructure in Regional System Dynamics, Northern Virginia" Proceedings of the Annual Conference on the Future of the Northern Virginia Economy ed. R.R. Stough The Center for Regional Analysis, GMU, Fairfax, Va. 1994, pp. 50-67 (with J.D. Riggle)
129. "Vulnerability of the Northern Virginia Region" Proceedings of the Conference on the Future of the Northern Virginia Economy May 17, 1994, pp. 23-33 (with R.R. Stough)
130. "The Role of Infrastructure in Regional Systems Dynamics: Northern Virginia," Proceedings of the Conference on the Future of the Northern Virginia Economy May 17, 1994, pp 50-67 (with J. Riggle)
131. "IVHS Investment Financing" U.S. DOT Report May 1994 (with N. Pandit, C. Arieira, and Li Qiangsheng)

## CONFERENCE PAPERS

132. "Financing IVHS and GIS-T Research" Proceedings of the Korea-U.S.A. Symposium on IVHS & GIS-T Korean Science and Engineering Foundation and U.S. National Science Foundation, Seoul, Korea June 1994 (with F. Phillips, Li Qiangsheng, N.S. Pandit, C.R. Arieira)
133. "Feasibility Issues in Charging User Fees and in Assessing Financing Mechanisms" U.S. DOT Report October 1994 (with C. Arieira, S. Burhans and N. Pandit)
134. "Toward Environmental Equity: Spatial Equity in Ohio and Cleveland" Working Paper #94:10 The Institute of Public Policy, George Mason University, Nov., 1994 (with W.M. Bowen)
135. "Technology in the Greater Washington Region," Report to the Greater Washington Board of Trade and the Greater Washington Initiative, Washington D.C. May 24, 1995 (with R.R. Stough, J. Popino, H.S. Campbell, S. Fuller)
136. "Uncertainty in Intelligent Transportation Projects" Proceedings of the Fourteenth Pacific Regional Science Conference Academica Sinica, Taipei, Taiwan, July 1995
137. "Paying for IVHS/ITS: Some Fundamentals" Proceedings of the Sixth World Congress on Transportation Research University of New South Wales, Sydney, Australia, July 1995
138. "Regional Information Infrastructure Policy Project of Northern Virginia Report to National Telecommunication Information Administration, TIAPP Program, Sept 30, 1995, p.50
139. US Department of Transportation. Institutional and Policy Issues in Adopting Advanced Public Policy Transportation Systems Technology." Advanced Public Transportation Systems Program Report, Department ITS Initiative, Federal Transit Administration, DOT-T-97-19 September 1995
140. "Why Can't the Federal Aviation Administration Learn? Creating Learning Culture at the FAA" Center for Regional Analysis, Aviation Policy Program, The Institute of Public Policy, George Mason University (jointly with the Aviation Foundation) 1996
141. "Institutional and Infrastructure Considerations in Transportation Research." NSF/ESF Workshops in Arlington, VA; Strassbourg Fr.; Lugano, Sw., 1996-1997)
142. "Global Port Dynamics: Kaohsiung Taiwan" Report to Chiang Ching-Kao Foundation's Tenth Anniversary in Washington D.C. August 1, 1998 (Published April 1999)
143. "Regional Port Dynamics" Issues and Perspectives ed. J. Paden Center for Asia Pacific Economic Cooperation, Faculty Seminar Series Vol. 3 1999 pp.25-50
144. "Woodrow Wilson Bridge Benefits Assessment" Proceedings of the Oresund Infrastructure Conference Department of Geography, University of Copenhagen and Infrastructure Dept. Royal Institute of Technology Stockholm, Copenhagen Denmark (Dec.1999)
145. "Transportation and Communications Supply Trade Off Assessment" Proceeding of the International Symposium on Regional Development Technicon, Port Elizabeth South

## CONFERENCE PAPERS

Africa (January, 2000)

146. "A Formal Language of Urban Freeway Traffic Patterns" Proceedings of the Fifth Joint Conference on Information Sciences Vol. 1 (Feb/Mar) 2000 Atlantic City, N.J. pp. 711-717
147. "Assessing the New Woodrow Wilson Bridge ITS: Expert Judgment Approach" in Proceeding of Regional Development Impacts of the Presumed Bridges (eds. A. K. Andersen and A. Karlstrom) Royal Institute of Technology Infrastructure and Planning, 2001, (KHT) Stockholm
148. "Towards and Efficient European Air Transport System" Report to Association of European Airlines 2002 Brussels, Belgium (K. Button and R. Stough)
149. "Spatial Scale, Environmental Justice the Relief the Urban Transportation Network" Proceedings Sustainable Transportation in Europe and Links and Liaisons with America 1 (STELLA) Focus Group 4: Environmental Safety, Health, Land Use, and Congestion, May 2002, Helsinki, Finland
150. "Priority Research Areas in Public Governance for India," Workshop Reports to the All Indian Management Association (AIMA), Delhi, India, December 2004
151. "Elements for Consideration in Regional Development Planning Strategies," Report to the Governor, Mongolian Autonomous Administrative Authority, Xianyang Province, China, Jan 2005
152. Exploring a Regional Classifier Based on Komogorov Complexity" Proceedings of the 13th World Multi-Conference on Systemics, Cybernetics and Informatics. Vol. IV July 10-13, 2009, Orlando. Florida pp. 316-321 (with R. Kulkarni, R. Stough and L. Schintler)
153. "Exploratory Analysis of the U.S. Housing Bubble with Komogorov Entropy and Principal Components Analysis" Social Science Research Network (SSRN) uploaded April 2010 (draft) with R. Kulkarni, R. Stough and L. Schintler
154. U.S. Housing Price Forecasting Using Google Econometrics" Social Science Research Network (SSRN) uploaded November 2009 and April 2010 with R. Kulkarni and R. Stough

Deleted: -Section Break (Next Page)-

1. University of Pittsburgh, Department of Geography and Division of Environmental Systems Engineering, "Some Relationships Between Central Place Theory and Employment," January, 1970
2. Southwest Social Science Conference, Association of American Geographers Regional Meeting, Dallas, Texas, "The Stability of Factorial Structures," March, 1970

**CONFERENCE PAPERS (Continued)**

3. Urban Hierarchies and Development, Conference sponsored by the South East Asia Development Advisory Group (SEADAG) of the Asia Society, New York, New York, "Growth Poles and the Urban Hierarchy of Malaysia," December, 1970
4. Western Regional Science Conference, Santa Barbara, California, "The Arrangement of Urban Structure and Change," February, 1971
5. Southwest Social Science Conference, Association of American Geographers, Regional Meetings, Dallas, Texas, "The Patterns of Urban Space," March, 1971
6. Invitational Quantitative Geography Seminar, Discussant, Tucson, Arizona, The seminar was sponsored by the Mathematical Social Science Board of the National Science Foundation, May, 1971
7. International Geographical Union, European Congress, Meetings, Budapest, Hungary (Quantitative Commission-invited papers), "Comparative Factorial Analysis: Parsimony, Invariance and Homogeneity," August, 1971
8. Western Regional Science Conference, Association of American Geographers, Regional Meetings, San Diego, California, "Toward an Ecological Model of Urban Land-Use," February, 1972
9. Southwest Social Science Conference, Association of American Geographers, Regional Meetings, San Antonio, Texas, "Inter-Metropolitan Migration and Intervening Opportunities: A Comparison of High and Low Opportunity Areas," March, 1972
10. Texas A & M University, Department of Geography, "The Patterning of Urban Fields," March, 1972
11. Transpo '72, (U.S. Department of Transportation's International Transportation Exhibition), Invited as member of the design team for an Intraurban Bus Design of van Ginkel Associates, Montreal, Canada, April, 1972
12. International Geographical Union, World Congress, Quantitative Commission, Montreal, Canada, "Directional Bias in the Distribution of Urban Population Density," August, 1972
13. Western Regional Science Conference, Monterey, California, "Cognitive Maps: Selected Aspects of the Mental Storage and Recall of Spatial Information," February, 1973
14. Southwest Social Science Conference, Association of American Geographers, Regional Meetings, Dallas, Texas, "Factorial Ecology of San Antonio," March, 1973
15. American Population Association, National Meetings, New Orleans, Louisiana, "A Factorial Ecology of Southwestern Cities and Ghettos," April, 1973
16. Canadian Association of Geographers, National Meetings, Thunder Bay, Ontario, Canada, "Public Policy and Pollution Abatement: Regional Implication," May, 1973

**CONFERENCE PAPERS (Continued)**

17. Conference on Mathematical Ecology, North American Treaty Organization, Scientific Division, Istanbul, Turkey, Invited Paper, "The Texas Coastal Zone Management Model," July, 1973
18. Pacific Regional Science Conference, Honolulu, Hawaii, "Environmental Quality and Urban Population Density," August, 1973
19. Southwestern Association of American Geographers, Fall Meetings, College Station, Texas, "A Texas View of the United States: The Storage and Recall of Spatial Information," October, 1973
20. Western Regional Science Association, Long Beach, California, "A Deterministic Diffusion Model for a Rural Environment with Physical Analog," February, 1974
21. Advanced Seminar in Economic Development, Panelist, Austin, Texas, "Land-Use Planning and Economic Development," February, 1974
22. Regional Science Association, National Meetings, Discussant, Atlanta, Georgia, paper by E. Casetti, "Economic Development and Population Growth: A Simulation Approach," April, 1974.
23. Association of American Geographers, National Meetings, Organizer and Chairman, Special Session, Seattle, Washington, "Information Theory and Spatial Interaction: Entropy Analysis in Geographic Research," May, 1974
24. Canadian Association of Geographers, National Meetings, Toronto, Ontario, Canada, "Transportation Models for the Texas Coastal Zone," May, 1974
25. Southwestern Association of American Geographers, Fall Meetings, Fayetteville, Arkansas, "Distance, Direction and Entropy in Point Pattern Analysis," October 1974
26. Council for Latin American Geographers, National Meetings, Boca Raton, Florida, "Settlement Patterns in Central Argentina's Spatial Dynamics in a Developing Nation," December 1974
27. Western Regional Science Association, Palm Springs, California, "A 'Generalized Distance' Estimation Procedures for Intra-Urban Interaction," February 1975
28. Southwest Social Science Conference, San Antonio, Texas, "Aircraft Noise: A Geographic Approach," March 1975
29. Southern Regional Science Association, Atlanta, Georgia, "Aircraft Noise and Property Values: A Characteristics Approach," April 1975
30. Association of American Geographers, National Meetings, Special Session on Quantitative Methods in Geography, Milwaukee, Wisconsin, Invited Paper, "Solving the Gravity Model Using the Unconstrained Dual of an Extended Geometric Programming Problem," April 1975

**CONFERENCE PAPERS (Continued)**

31. American Population Association, National Meetings, Seattle, Washington, "Spatial Models of Intra-Urban Population Density," April, 1975
32. Rocky Mountain Social Science Meetings, Denver, Colorado, "Property Values and Airports," May 1975
33. Hungarian-U.S. Joint Seminar on Geographical Characteristics of Urban Development, Budapest, Hungary, Invited Paper, "Nonmetropolitan Change in Urban America: Texas, A United States Case Study," June 1975. The seminar was sponsored by the Hungarian Academy of Sciences and the National Science Foundation
34. Southwestern Association of American Geographers, Fall Meetings, Norman, Oklahoma, "Some New Equivalencies and Dualities in the Solution of the Gravity Model of Spatial Interaction Using the Extended Geometric Programming Problem," October, 1975
35. Third Biennial International Estuarine Research Conference, Galveston, Texas, "Economics and Land-Use Management for the Texas Coastal Resources Project," October, 1975
36. Regional Science Association, National Meetings, Cambridge, Massachusetts, Invited Paper, "Environmental Quality and Inflation: A Regional Perspective on Cost-Push Impacts," November, 1975
37. Southwest Social Science Conference, Dallas, Texas, "Diffusion of Public Policies," April, 1976
38. Association of American Geographers, National Meetings, New York, "The Role of Socio-Economic Status and Political Organization in the Diffusion of Public Policy Innovations," April, 1976
39. Conference on Environmental Assessment of Socio-Economic Systems, North Atlantic Treaty Organization, Scientific Division, Istanbul, Turkey, Invited Paper, "Comprehensive Impact Assessment Models," October, 1976
40. School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana, "The Urban Waste Management System of Cairo Egypt," April, 1977
41. The Johns Hopkins University and the Department of Geography and Environmental Engineering, "Appropriate Technology and Public Policy," Baltimore, MD, May, 1977
42. University of Pittsburgh, "Recycling Waste In Cairo: Appropriate Technology," May, 1977
43. Environmental Seminar Series, Director, Faculty of Science, University of Khartoum, Sudan 1977-1978
44. Colloquium, Department of Geography, University of California, Santa Barbara, "Coastal Zone Management: Environment and Inflation" and "Colonias' in the Lower Rio Grande Valley," Santa Barbara, California, February, 1978

**CONFERENCE PAPERS (Continued)**

45. International Symposium on the Environmental Effects of Hydraulic Engineering Works, "Operational Considerations in the Management of the Aswan High Dam," Sponsored by T.V.A., Oak Ridge National Laboratories, and International Association for Hydraulic Research, University of Tennessee, Knoxville, Tennessee, September, 1978
46. Regional Science Program, University of Illinois, "Management of the Aswan High Dam: A Multi-Objective Approach," October, 1978
47. Symposium of Environment and Development, "Environmental Management in Egypt: Damming the Nile and Beyond," Public Lecture, Guest Speaker, Colorado College, Colorado Springs, November, 1978 and "Agriculture and Energy in the Management of the Aswan High Dam," Faculty Lecture, Colorado College, Colorado Springs, November, 1978
48. Colloquium, Department of Geography, Indiana University, "Operational Aspects of the Aswan High Dam," Bloomington, Indiana, November, 1978
49. Distinguished Alumni Seminar Series, "Managing the Nile-Then and Now," School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana, January, 1979
50. Center for Metropolitan Affairs and Public Policy, College of Charleston, "Planning and Management in the Nile Valley," Charleston, South Carolina, March, 1979
51. Analytical Skills Workshop, "Social Soundness Analysis-Heuristics, Appropriate Technology and Public Policy," and "Environmental Impacts," Agency for International Development, U.S. Department of State, 1979 (Madeira, Portugal; September, 1979, Berkley Springs, West Virginia; June, 1980, Washington, D.C.)
52. Modeling and Simulation Conference, "On the Efficient Use of the Aswan High Dam: A Revised Assessment," Pittsburgh, PA, April, 1979
53. Northeast Regional Science Meetings, "A Market Model of Environment and Housing with Air Pollution Considerations," Amherst, Mass., May, 1979
54. Using Land to Save Energy Conference, "Energy Supply and Demand as Components of Municipal Comprehensive Planning," Illinois-Indiana Bi-State Commission, Chicago, Illinois, May, 1979
55. East Lake Division Meetings, Association of American Geographers, "Environment and Urban Housing: An Estimation Model," Akron, Ohio, September, 1979
56. West Lakes Division Meetings, Association of American Geographers, "Environment and Housing Models: Some Information Theoretic Linkages," Chicago, Illinois, October, 1979

**CONFERENCE PAPERS (Continued)**

57. Regional Science Association, National Meetings, "Air Pollution and Urban Housing: A Market Model with Environmental and Consumer Considerations," Los Angeles, California, November, 1979
58. Third Lake Nasser-Nile River Project Review Workshop, "International Riparian Cooperation for Nile Management: Stage Three?" Egyptian Academy of Scientific Research and Technology, National Research Center, Cairo, December, 10-13, 1979
59. Colloquium, Department of Geography, "Regional Patterns in the Diffusion of Public Policy Innovations 1870-1970," University of South Carolina, Columbia, South Carolina, March, 1980
60. Campus Lecture Series: Urban Studies/Department of Geography Colloquium, "Non-Metropolitan Changes in Urban America," Indiana University-Purdue University at Indianapolis, April, 1980
61. Association of American Geographers, National Meetings, "Using the Aswan Dam: A New Assessment," Louisville, Kentucky, April, 1980
62. Modeling and Simulation Conference, "Information Theoretic Considerations for an Environment and Housing Model: New Equivalencies and an Unconstrained Regression Hypothesis," Pittsburgh, PA, May, 1980
63. Northeast Regional Science Meetings, "Air Pollution and Urban Housing: An Information Theoretic Model of Choice Behavior," Boston, MA, May, 1980
64. Assessing Energy-Related Impacts in Coastal Areas: A Symposium for Public Officials, "Environmental Assessment and Multiobjective Modeling for Energy Facility Siting," Sponsored by U.S. Department of Commerce, Office of Coastal Zone Management, Coastal Energy Impact Program and South Carolina's Governor's Office, College of Charleston, Charleston, South Carolina, October, 1980
65. Joint International Regional Geography Meetings, Canadian Association of Geographers, Ontario Section and the American Association of Geographers, East Lakes Section: London, Ontario, Canada, Invited Paper, "Minimum Information Principals and Choice Models in Housing and Transportation," November, 1980
66. International Congress on Applied Systems Research and Cybernetics, Acapulco, Mexico, "Minimum Information Methods and Individual Choice: Applications to Linear and Loglinear Regression and Competitive Spatial Interaction Models," December, 1980
67. International Conference on Water Resources Management in Egypt, Cairo, Egypt, "Dealing with Water Shortages in Egypt" and "Implications of Upper Basin Development on the Operating Policy of the High Dam," Jan. 1981 (Sponsored by the Ministry of Irrigation and the Egyptian Academy of Scientific Research and Technology)

**CONFERENCE PAPERS (Continued)**

68. Environmental Science Lecture Series, "Managing the Nile," School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana, February, 1981
69. Environmental Studies Colloquium, "High Aswan Dam Operating Policies," Indiana University-Purdue University at Indianapolis, February, 1981
70. Western Regional Science Meetings, Newport Beach, California, "Housing and Transportation Choice Models and Information Theoretic Estimation Procedures," February, 1981
71. Association of American Geographers, National Meetings, Special Sessions on Quantitative Methods, Los Angeles, California, April, 1981; a) Organizer, Session on Minimum Information Methods and Participant, "Minimum Information Discrimination Statistic and Its Application to Regression, Entropy, Gravity, Logit and Probit Models," and b) Organizer and Chairman, Session on Multiobjective Methods and Participant, "A
72. Modeling and Simulation Conference, "Information Theoretic Models of Choice Behavior," Pittsburgh, PA., April, 1981
73. Multiobjective Model for Energy Facility Siting in Northern Indiana International Symposium on Real Time Operations of Hydrosystems, Waterloo, Ontario, Canada, "A Real Time Management Model for the Aswan High Dam," June, 1981
74. Regional Science Association, North American Meetings, Montreal, Quebec, Canada, "A Coal Industry Distribution Planning Model with Public-Private Sector Interaction under Environmental Constraints," and "Risk and Resource Utilization: Managing Water Shortages in Egypt," November, 1981
75. Western Regional Science Association, Santa Barbara, California, "Scarcity and Risk in Resource Management: Water in Egypt," February, 1982
76. American Society of Public Administration, National Meetings, Special Session on Pacific Ports and Urban Water Front Management, Honolulu, Hawaii, participant "Ports as Urban Centers and Growth Poles: A Retrospective on Malaysian Regional Development," March, 1982
77. Modeling and Simulation Conference, "Private Sector Coal Distribution Planning Model," Pittsburgh, PA, April, 1982
78. Association of American Geographers, National Meetings, Special Session on Quantitative Methods, San Antonio, Texas, Chairman, Session on "Advances in Multi-Objective Methods in Geography," April, 1982
79. American Society of Civil Engineers and The United States Geological Survey sponsored conference on Water and Energy: Technical and Policy Issues, Fort Collins, Co., "Conflicting Water Demands in the Yellowstone Basin," June, 1982

**CONFERENCE PAPERS (Continued)**

80. Workshop on Coal Transportation and the Environment, East-West Center Project, Lexington, Kentucky, "Policy Sensitive Coal Planning Distribution Model," August, 1982
81. National Conference on Energy Resource Management, Baltimore, Maryland, "Multi-Dimensional Programming Methods for Energy Facility Siting: Alternative Approaches," September, 1982
82. American Society of Public Administrations, combined Southern and Midwestern Meetings, Louisville, Kentucky, "Urban Waterfronts and Port Management in the New Federalism," November, 1982
83. American Society of Civil Engineers, sponsored conference on Water Supply Management, Tampa, Florida, "Water Supply Capacity Expansion and Financing in Southern Indiana," March, 1983
84. Association of American Geographers, National Meetings, Special Session on Quantitative Methods, Denver, Colorado, Chair, "Spatial Choice and Spatial Behavior," April, 1983
85. Association of American Geographers, National Meetings, Denver, Colorado, "The Capacity Expansion Problem: Two Paradigms," April, 1983
86. Modeling and Simulation Conference, "Nile River Low Flows" and "Capacity Expansion: A Game Theoretic Approach," Pittsburgh, PA, April, 1983
87. Distinguished Faculty Lecture Series, "Uncertainty in the Management of Water Supply: Big Rivers and Little Towns," University of California, Santa Barbara, California, May, 1983
88. Pathology of Urbanization Conference, Panel V Chairman. "The Spatial Dimension in the Deformation of Urban Processes". Background paper on "The Capacity Expansion Problem." Warsaw, Poland, Sept., 1983
89. Regional Science Association North American Meetings "Risk and Uncertainty in Planning for Capacity Expansion"; Chair of the Session in "Public Utility Modeling"; Panelist on "Research Funding for Regional Science". Chicago, Ill. Nov., 1983
90. Association of American Geographers, National Meetings Organizers and Chair, Special Session on "Applications of Analytic Procedures in Public Decisionmaking" "Analytic Methods in Water Management," 1984
91. Department of Geography, Boston University, Boston, MA "Risk Assessment and River Basin Modeling" February, 1984
92. Department of Urban and Regional Planning, College of Engineering Ohio State University, Columbus, Ohio "Modeling the Yellowstone River Basin," February, 1984
93. Modeling and Simulation Conference, "Impacts of Energy Policy: An Interrupted Time-Series Assessment" Pittsburgh, Pennsylvania, April 1984

**CONFERENCE PAPERS (Continued)**

94. Council on Urban and Regional Planning, The Technological Institute, Northwestern University, Evansville, Illinois "Water Management and Risk Assessment" April 1984
95. Modeling and Simulation Conference "Environment and Coal Production" and "Nonmetropolitan Employment Change" University of Pittsburgh, Pittsburgh, PA, April 1984
96. Regional Science Association North American Meetings "Time Series Analysis of Environmental Policy and Coal Flow Response." Denver, Colorado, November 1984
97. Scientific Geography Conference "Risk Assessment and Water Resource Management" University of Georgia, Athens, GA, Spring 1985
98. Second International Conference on Regional Development and Public Policy, Organizer and Chair, Indiana University-Purdue University at Indianapolis, April 1985
99. Modeling and Simulation Conference "Modeling Intercity Amtrak Flows;" "Nonmetropolitan Growth Dispersal," "Modeling Risk Assessment in Water Resources" University of Pittsburgh, Pittsburgh, PA, April 1985 100.
100. Regional Development and National Economic Growth: Complementarity or Trade-Off? "U.S. vs Third World: Lessons for Canada" Wolfville, Nova Scotia, July 1985
101. Pacific Regional Science Association "Risk and Water Resource Management in the Yellowstone Basin" Molokai, Hawaii, August 1985
102. Northern Illinois University, Graduate School Lecturer, Public Lecture "Managing the Yellowstone River;" Research Lecture "Modeling Diffusion of Public Policies" DeKalb, IL, November 1985
103. Operations Research Society of America/The Institute for Management Sciences "Capital Grants and Industry Location: A Nested Logit Model" Atlanta, Ga. November 1985 (T. Dignan)
104. Griffith Taylor Distinguished Lecturer, "Risk Assessment of Water Policies in a Regional Economy: The Yellowstone Basin of Montana" University of Toronto, Toronto, Ontario, Canada December 1985
105. Sigma Xi, The National Scientific Research Society, "The New Agenda for Science" Conference "Infrastructure for National Scientific and Technological Research: Policy Assessment" Washington, D.C. January, 1986
106. Western Regional Science Association, "Tourism and Economic Development" Laguna Beach, CA February, 1986
107. Urban Affairs Association Organizer and Chair "Innovation and Regional Development" and presenter "Characterizing University R&D Activities" Fort Worth, Texas March, 1986

**CONFERENCE PAPERS (Continued)**

108. Modeling and Simulation Conference "Patterns of Funding for Scientific and Technological Research" and "Declining Midwestern Comparative Advantage and the Deconcentration of Midwestern Transportation Employment" University of Pittsburgh, Pittsburgh, PA April, 1986
109. National Science Foundation, Policy Research and Analysis Division Workshop on University R & D "D.E.A. as an Alternative Production Function Estimation Procedure for University R & D" Washington, D.C. April, 1986
110. Indiana Economic Development Congress "Environmental Scan, Strategic Planning and the Futures of Indiana" for the Indiana Economic Development Council Indianapolis, IN May, 1986
111. Third International Conference on Regional Development and Public Policy Co-convener and Chair, Indiana University, Indianapolis, May 1986
112. Lake County Industrial Development Corporation and Private Industry Council Workshop on "Strategic Planning" Geneva, Wisconsin June 1986
113. National Science Foundation, Policy Research and Analysis Division Workshop on National Science Policy "Infrastructure for Science and Technological Research" Washington, D.C. June, 1986
114. Department of Regional Science, School of Administration, Tampere University Invited Lecture, "Pathologies of Urban Processes: Meaning and Context" Tampere, Finland August, 1986
115. British Regional Science Association held in conjunction with the British Science Association, Panel on "Regional Development Modeling" Bristol, England U.K. September, 1986
116. Nankai University, Ministry of Water Resource and Electric Power, Bureau Environmental Management, Haihe River Authority, Water Conservancy Bureau, Department of City and Regional Planning, Invited Workshop Lecture Series, two weeks, on "Regional Planning and Water Management" Tianjin, China October, 1986
117. Operations Research Society of American/The Institute for Management Science "Cognitive Conflict and Joint Decision-Making in Land Use Management" Miami, Florida November, 1986
118. Regional Science Association Chair, Sessions on "Metropolitan Development and the Regional Economy" and discussant on "Social Welfare and Applications of the Expansion of Method" and "Source of Creativity in Regional Science" Columbus, OH November, 1986

**CONFERENCE PAPERS (Continued)**

119. Association for Public Policy and Management, Organizer and Chair "Facing the Future: The Non-Identity Problem", and presenter "Evaluating Mega Projects" Austin, Texas, November 1986
120. Western Regional Science Association "Extensions of Shift-Share Decomposition" Kona, HI February, 1987
121. Fourth International Conference on Regional Development Organizer and Chair, Indianapolis, IN May, 1987
122. Association for Institutional Research invited lecture "Comparative Student Service Area Analysis" Kansas City, MO May, 1987
123. Invitational Review and Discussion with Directors of the Public Policy Institutes, The National Research Organization of the Netherlands (TNO), "Negotiation, Bargaining and Group Decision Making Processes" Delft, Netherlands, June, 1987
124. Invitational Conference, The Future of the Metropolitan Economy, "An Ecology of Strategies for Urban-Metropolitan Survival in the Twenty-First Century: A Proposal and Evaluation and Spatial Restructuring of Manufacturing in the U.S. Midwest" The National Research Organization of the Netherlands (TNO), The Institute for Spatial Organization (INRO), Delft, Netherlands, June, 1987
125. International Conference on New Approaches to Infrastructure "U. S. Patterns in University Science and Technology Funding" Rotterdam, Netherlands June 1987
126. American Public Policy and Management Organizer and Chair "Review of NSF Supported Public Policy Research" Washington, DC October 1987
127. Regional Science Association "An Information Theoretic Extension of Shift-Share Decompositions", Baltimore, MD November, 1987
128. Western Regional Science Association "Information Theoretic Characterizations of Shift-Share Decomposition" Napa, CA, February 1988
129. Association of American Geographers, Panel Discussant for Three Papers of "Urban Land Use Theory" in special session on Quantitative Methods in Geography Phoenix, April 1988
130. Keynote Address "Public-Private Cooperation in Regional Development: Lessons from Boston, Santa Clara and Indianapolis" Fifth International Conference on Regional Development, Indianapolis May 1988
131. Fifth International Conference on Regional Development "Rural Restructuring in Middle America" Indianapolis May 1988

**CONFERENCE PAPERS (Continued)**

132. International Conference on Globality vs. Locality "Urban Economic Survival in the Twenty-First Century" sponsored by American Studies Center, University of Warsaw and Polish Academy of Sciences, Nieborow, Poland June 5-8 1988
133. European Regional Science Conference "Uncertainty in Infrastructure Expansion" and "Evaluation of Mega Projects" Stockholm, Sweden August 22-26 1988
134. International Conference in International Technological Change "Advanced Producer Services" Boston, MA Oct., 10-12 1988
135. Association of the American Public Policy and Management, Panelist on "Regional Development Policy," Seattle, WA Oct. 1988 North American Regional Science
136. Association "Federal R & D Expenditure Patterns in Science and Engineering" Toronto Nov., 10-13 1988
137. Western Regional Science Association "Land and Landlessness: Rural to Rural Migration in Nepal" San Diego, CA Feb. 20-23 1989
138. Association of American Geographers, Chair & Presenter "Applications in Data Envelopment Analysis" Baltimore MD Mar. 20-23 1989
139. International Geographical Union, Panel on Public Administration "Federal R&D Investment in US Universities" U.S. Advising Commission on Intergovernmental Relations (ACIR), Washington, DC Mar., 1989
140. Northeast Regional Science Association, "University R & D: Patterns in Federal Support", Boston, MA, May, 1989
141. Pacific Regional Science Association "Mega Projects -- Assessment and Evaluation Methodology" Singapore July 1989
142. National Sun Yat-Sen University, "Patterns in U.S. Public Policy Programs" Kaohsiung, Taiwan, R.O.C. July 1989
143. Taiwan National Science Council, Planning Division of the Executive Yuan, National Taiwan University "Models for Environmental Impact Assessment" Taipei July 1989
144. Second International Seminar on Economic Restructuring: Regional Spatial Organization and the Role of Advanced Service Systems "Understanding Regional Economic Change in the Boston Dominated New England Region" Sponsored by Boston University, Center for Energy and Environmental Studies and the Netherlands Institute for Applied Sciences (TNO-INRO) Boston, MA August 1989
145. Conference on New Uses of DEA in Management sponsored by the Kozmetski Foundation and the National Science Foundation at the Center for Innovation, Creativity and Capital, University of Texas, Austin September 1989

**CONFERENCE PAPERS (Continued)**

146. Great Lakes Conference on the Changing Economy "Great Lakes Ports in a Changing Regional Economy" Burns Harbor, Merrville, IN September 1989
147. Conference of the New England-St Lawrence Valley, Association of American Geographers (NESTVAL) Organizer and Host for Boston University, 2 Day Program, October 1989
148. Seoul National University, Student-Faculty Seminar "Distribution and Productivity Issues in U.S. University R & D" Seoul, Korea November 1989
149. National Sun Yat-Sen University, Management Faculty "Patterns in Organization of U.S. University R & D" Kaohsiung, Taiwan, R.O.C. November 1989
150. First Korea-U.S. Seminar on Science and Technology Policy sponsored by Korea Science and Engineering Foundation and the U.S. National Science Foundation at Korea Institute of Science and Technology, Seoul, Korea November 6-8 1989
151. Regional Science Association "Impact of Space on the Application of Discrete Choice Models" Santa Barbara, CA November 1989
152. American Association for the Advancement of Science, Annual Conference, Organizer Symposium "Human Response to Physical Environmental System Extremes" and presenter "Risk Assessment and Policy Response to Hazard" New Orleans, LA February 1990
153. Western Regional Science Association "Uncertainty in Infrastructure Planning" Molokai and "Tourism and Regional Development in the Pacific Rim", Maui Hawaii February 1990
154. Association of American Geographers "Geo-Factors in Policy" and "NCGIA Trends and Development" Toronto, Ontario, Canada April 1990
155. Modeling and Simulation Conference, "Multiple Objective Extension for Service System Expansion", Pittsburgh, May 1990
156. Northeast Regional Science Association, Organizer and Chain of Session on Regional and Locational Analysis "Educational Programming Assessment: Regional Methods in Planning and Forecasting" and "Integrating Data Envelopment Analysis, and "Multiple Objective Programming for siting Decisions" Buffalo, N.Y. May 1990
157. First Pacific Regional Science Conference Organization (PRSCO) Summer Institute on Public-Private Partnership for Urban, Regional and Economic Development in the Pacific Region, Commissioned Papers on "Lesson for Public-Private Partnership" "Infrastructure in Regional Analysis: Past, Present and Future" "DEA for Regional Decisions" "Extensions of Shift-Share" Institute of Technology, Bandung, Indonesia (July, 1990)
158. American Society of Public Administration, "Elements of Economic Change in Great Lake Ports", Cleveland, October 1990

**CONFERENCE PAPERS (Continued)**

159. Applied Geography, "Data Envelopment Analysis Methods for Problem Solving in a Spatial Context", Charlotte, NC, October 1990
160. Operations Research Society of America/The Institute of Management Science Meetings, "Extensions of DEA for Location Analysis", Philadelphia, PA, October 1990
161. The Institute of Public Policy, Inauguration "Regional Economies and Global Networks: Science and Technology Policy" George Mason University, Fairfax, VA (Nov. 1990)
162. The Lyndon B. Johnson School of Public Affairs, Twentieth Anniversary Founders Program, University of Texas, Austin (Jan. 1991)
163. Western Regional Science Association Presidential Address "The Role of Infrastructure in Regional System Dynamics" Monterrey, CA (Feb, 1991)
164. Association of American Geography " Earth Summit 1992," Miami, CA (April 1991)
165. International Conference on Mathematical and Computer Modeling, "Evaluating Service System Expansion using Data Envelopment Analysis "College Park, MD (April 1991)
166. European Community Studies Association Biennial Conference on the Challenge of the New European Architecture "Origins of R&D Regions in the U.S. and the Europe" and "Understanding Industrial Development Policy in Europe", Fairfax, VA (May 1991)
167. Pacific Regional Science Conference, Invited Session on Measuring Productivity in University R&D "Patterns in Distribution, Organization and Productivity in U.S. University R&D" and "Measuring Productivity in Swedish Universities: Economics and Business Programs" Cairns, Australia
168. Keynote Dinner Speaker, Ministry of Business, Industry and Regional Development Reception, "Institutional Infrastructure in Regional Development Strategies" Parliament Building, Brisbane, Queensland, Australia
169. Conference on Environmental Decision Making and Management, Sponsor Ministry of Business and Commerce and the Taiwan E.P.A., "The Impact of Environmental Extremes on Institutional Decisions: "Risk Assessment" Sun Yat-Sen National University, Kaioshung, Taiwan (July 1991)
170. Pacific Coast Geographers Conference, "Locational Efficiency and Health Care Siting" Tucson, AZ (Sept. 1991)
171. North American Regional Science Association "Long Term Facility Siting" and "Regional Impacts of North American Free Trade" New Orleans, LA (Nov. 1991)
172. Western Regional Science Association "Regional Development and Industrial Policy" Tahoe, NA (Feb 1992)

**CONFERENCE PAPERS (Continued)**

173. Association of American Geographers "Environmental in Global Perspective" San Diego, CA (April 1992)
174. World Regional Science Congress, "Regional Policy and Industrial Decisions: A European Example" Mallorca, Spain (May 1992)
175. Hamburg University-NSF Productivity Conference "Siting Facilities by Optimizing Productivity Ratios" Hamburg Gr. (June 1992)
176. European Operations Research and The Institute of Management Science" Location Efficiency and DEA" Helsinki, Finland (July 1992)
177. Second International Pacific Regional Science Workshop "Environmental Decision Models and U.S. Experience" Taipei, Taiwan (July 1992)
178. American Public Policy and Management Conference "Environment and Pipeline Safety Policy" Denver, CO (Oct. 1992)
179. North American Regional Science Association "Transportation and IVHS Modeling" Chicago, IL (Nov. 1992)
180. Western Regional Science Association "Pollution Prevention Frontiers" Maui, HI (Feb. 1993)
181. Association of American Geographers "Environmental Models and Pollution Abatement" Atlanta, GA (April 1993)
182. North American Management Science and Operations Research Meeting "Uncertainty and Transportation Modeling" Chicago, IL (May 1993)
183. Pacific Regional Science Conference "Individual Differences and Environmental Priorities" Whistler, B.C. Canada (July 1993)
184. Urban Infrastructure and Economic Evaluation Conference "Economic Assessment" Lisbon, Portugal (Sept. 1993)
185. Federal Administration Assistant's Conference, Speaker, January, Center for Market Processes (Arlington, VA, 1993; Alexandria, VA, 1994; Baltimore, MD, 1996)
186. Environmental Policy and Management Conference "Environmental Simulation" Sun Yat-Sen University Kaohsiung, Taiwan (Oct. 1993)
187. North American Regional Science Conference "Regional Econometric Model of Washington D.C." and "Environmental Priorities Assessment" Houston, TX (Nov. 1993)
188. World Asian Urbanization Conference "Transportation and Edge Cities" Taipei, Taiwan (Jan. 1994)

**CONFERENCE PAPERS (Continued)**

189. Western Regional Science Conference "Transportation Modeling" Tucson, AZ (Feb. 1994)
190. China's Inaugural Regional Science Association Conference "Project Management: Information and Uncertainty" Beijing (Mar. 1994)
191. US-Korea GIS/IVHS Transportation Conference "IVHS/GIS Project Financing" Seoul, Korea (Jun. 1994)
192. US Operations Research and Management Science Meetings "DEA Pollution Central Applications" Anchorage, Alaska (Jun. 1994)
193. Third International Pacific Regional Science Workshop "Managing Regional Issues: Lessons from Federal States" Cuernavaca, Mexico (Jun. 1994)
194. European Operations Research Conference "DEA and Pollution Management" Glasgow, Scotland (Jul. 1994)
195. Small and Medium Size Business Conference "Managing Entrepreneurism" Jonköping International School of Business, Jonköping, Sweden (Sep. 1994)
196. Applied Geography Conference "Regional Economic Development Programs in the US" Akron, Ohio (Oct. 1994)
197. North American Regional Science Conference "Transportation System Management" Niagara Falls, Ontario, Canada (Nov. 1994)
198. Southern Economics Association "Increasing Returns Measurements" (Nov 1994) Tallahassee, FL
199. Western Regional Science Conference "Transportation Project Management" San Diego, CA (Feb. 1995)
200. High Speed Rail "Impact on Labor Accessibility" Jonköping International School of Business, Jonköping, Sweden (Mar. 1995)
201. Student Exchange Signing Agreement "Future Worlds" Asturias School of Business, Oviedo, Spain (Mar. 1995)
202. Association of American Geographers Conference "Administrator-Geographer" Chicago, IL (Apr. 1995)
203. International Conference on Computers in Planning "Information for Project Management" Melbourne, Australia (Jul. 1995)
204. World Congress on Transportation Research "Financing ITS" Sydney, Australia (Jul. 1995)
205. 14th Pacific Regional Science Conference "Keynote Speaker" "Uncertainty in Project Management" Taipei, Taiwan (Jul. 1995)

**CONFERENCE PAPERS (Continued)**

206. Pacific Rim Transtech Conference "Institutional Issues in ITS" Seattle, WA (Jul. 1995)
207. International Geographical Union, Quantitative Commission "Spin Glass Transport Models" Odense, Denmark (Aug. 1995)
208. European Regional Science Conference "Managing New Technology" Odense, Denmark (Aug. 1995)
209. Pacific Maritime Center Conference "Kaohsiung Port and its Role in Global Perspective" Keynote Speaker, Kaohsiung, Taiwan (Oct. 2-4, 1995)
210. Applied Geography Conference "Regional Economic Development and Environment" Crystal City, VA (Nov. 8-10, 1995)
211. North American Regional Science Conference "Spin Glass and Transport Congestion and Emissions" and "Regional Development and Evolutionary Processes" Cincinnati, OH (Nov. 10-12, 1995)
212. Southern Economics Association "High Technology and Sources of Increasing Returns" (Nov 1995) Memphis, TN.
213. Asturias Chamber of Commerce "Economic Infrastructure and the Service Economy" Oviedo, Spain (Dec. 11-12, 1995)
214. Western Regional Science Conference "Financing Intelligent Transportation Systems (ITS): Evaluation of Alternative Mechanisms" Silverado, California (Feb. 1996)
215. Keynote Speaker, Policy Seminar, Office of the Secretary, US Department of Transportation "Managing Emergent Technologies: Lessons for ITS" (Feb. 1996)
216. Association of American Geographers National Conference "Toward a Biological Model of Transportation Congestion" Charlotte, NC (Apr. 1996)
217. Southern Regional Science Conference "Shift-Share Extension in the Metropolitan Washington Context" Baltimore, MD (Apr. 1996)
218. North East Regional Science Conference "Regional Productivity Differences in US Manufacturing: A Shift-Share Application" Binghamton, NY (Apr. 1996)
219. Keynote Speaker, World Regional Science Congress, RSAI "21st Century Regional Science in the Globalized and Borderless Economy" Tokyo, Japan (May 1996)
220. Keynote Speaker, Mexican Regional Science Association Meeting "Regional Development in the World Economy of the 21st Century" Toluca, Mexico (May 1996).
221. Joint US-European Transportation Workshop "Infrastructure Research Needs" National Science Foundation-European Science Foundation, (June 1996), Arlington, VA (Co-Chair US Delegation)

**CONFERENCE PAPERS (Continued)**

222. National Science Foundation Infrastructure Workshop, Co- Organizer, Reston, Va. (July 1996)
223. International Design and Decision Support Systems Conference "Transportation Landscapes" Spa, Belgium (Aug. 1996)
224. European Regional Science Conference "Regions and Federal Policy: Canada, Germany and the US" Zurich, Switzerland (Aug. 1996)
225. Spatial Technologies and Urbanization Conference, Organizing Panelist and Presenters "Space, Technology, and Urban Organization: The National Capital Region" NSF's, National Center for Geographical Infrastructure and Analysis, Baltimore, Md., (Sept 1996)
226. Australia-New Zealand Regional Science Conference "Models of Technology Impacts on Future Edge Cities" (Sept 1996) Canberra, Australia
227. Joint US-European Transportation Workshop "Infrastructure and Communication Technologies and Their Impact on Transportation" National Science Foundation-European Science Foundation, (Oct 1996), Strasbourg, France (Co-Chair US Delegation)
228. Applied Geography Conference "Measuring Manufacturing Productivity Changes" Kansas City, Kansas (Oct 1996)
229. Economic Development Society Conference "The Impact of Changes in Federal and Defense Dependency in the Metropolitan Washington Economy" Boston, Ma (Oct 1996)
230. North American Regional Science Conference, Co-Host and Local Arrangement Chair, Presenter "Evolutionary Shift-Share Models", NR Models for Transportation "Management" Arlington, VA (Nov 1996)
231. "Report on the NSF/ESF Joint Project in Transportation Research" (Transportation Research Board Jan 1997) Washington, D.C
232. "Institutional Issues in Aviation Management", White House Conference on Aviation Safety and Security, Invited Speaker, (Jan 1997) Washington, DC
233. Western Regional Science Meetings, "Priority Scaling for Woodrow Wilson Bridge Improvements" Feb 1997 Kona, Hawaii
234. Association of American Geographers, National Meetings, "Regional Differences in Manufacturing Productivity" April 1997 Ft. Worth, Texas.
235. Southern Regional Science Association, "Sources of productivity Change in Regional Economics" April 1997 Memphis, Tennessee
236. North East Regional Science Association "Measurement of Productivity Change Residuals" May 1997 Boston, MA

**CONFERENCE PAPERS (Continued)**

237. Western Economics Association "Sources of Non-Labor Productivity Changes" June 1997, Seattle, WA
238. Mid-Continent Regional Science Association "Sources of Regional Efficiency" June 1997, Indianapolis, IN
239. Mid-Continent Regional Science Association, "Sources of Regional Efficiency" June 1997 Indianapolis.
240. American Society for Public Administration (ASPA), Session Chair, July 1997, Philadelphia, PA
241. World Productivity Conference, "Sources of Regional Inefficiency: An Integrated Approach" October 1997, Santiago Chile
242. National Science Foundation/European Science Foundation Joint Transportation Workshop Lugano, Switzerland October 1997
243. "Manufacturing Productivity" North American Regional Science Association Meetings, Buffalo NY November 1997
244. "Measuring Sources of Productivity Gains" Applied Geography Conference, Albuquerque New Mexico November 1997
245. "Shift-Share and DEA in Regional Productivity" Pacific Regional Science Meetings, Wellington, New Zealand December 1997
246. "Environmental Justice and its Measurement" American Public Policy and Management Meetings, Washington D.C. 1997
247. "Regional Productivity and Infrastructure Investment" Joint CIB/Timbergen Institute Conference on Infrastructure and Regional Development, Amsterdam, Netherlands February 1998
248. "Regional Multi-Factor Productivity Model" Western Regional Science Conference, Monterrey, California February 1998
249. "A Traffic Language Model" Association of American Geographers, National Meeting Boston, MA April 1998
250. "Patterns in Southern Manufacturing Productivity" Southern Regional Science Meetings, Savannah, GA April 1998
251. "Regional Telecommunication Regulation" Telecommunications and the City Conference University of Georgia, Athens, GA April 1998
252. "Alternative Models of Regional Productivity Assessment" Conference on New theory in Regional development Uddevalla, Sweden June 1998

**CONFERENCE PAPERS (Continued)**

253. "Measuring Efficiency in Community Colleges" Western Economics Association, Lake Tahoe, Nevada July 1998
254. "Distribution of State Funds to Localities: An Efficiency Assessment" European Operations Research Society, Brussels, Belgium July 1998
255. "International Shift-Share Productivity Assessment for the European Union" European Regional Science Association, Vienna, Austria August 1998
256. "International Trade and Regional Impact" A Shift-Share Assessment" French/Mexico Regional Science Joint Conference Puebla, Mexico September 1998
257. International Trade and Productivity" National Congress on Regional Science and Planning, Istanbul, Turkey September 1998
258. "U.S. High Educational Development" Invited Speaker, University of Kazakhstan September 1998
259. Series of Special Lectures, National Association of State Development Agencies Training Course, Washington D.C. (September 1998) (September 1999)
260. "Transportation and Regional Economic Productivity" Pacific Regional Science Conference Organization Workshop, Nagoya, Japan October 1998
261. "Infrastructure Investments and Regional Productivity" Chinese Academy of Science (Policy and Management Science Group) Beijing, China October 1998
262. "Human Capital Development and Higher Education Efficiency" Applied Geography Meetings, Louisville, KY October 1998
263. "Environmental Justice Methodology" American Public Policy and Management Association Meetings, NY, NY October 1998
264. "Evaluating Efficiency at NIH Laboratories" Productivity Association Meeting, Athens, Georgia October 1998
265. Host, Telecommunications Conference "Growing the Internet" Crystal City, VA November 1998
266. "International Trade and Regional Development Efficiencies" North American Regional Science Conference, Santa Fe, N.M. November 1998
267. "Transportation and Telecommunication Substitution and Complementarity" Invitational Conference on Infrastructure Convergence, T.U. Delft, Netherlands June 1999
268. "European Integration and Trade: Impacts on Manufacturing Employment and Productivity" Invitational Conference on Regional Development Policy, Fishebackskill, Sweden June 1999

**CONFERENCE PAPERS (Continued)**

269. "Locational Effects of Telecommunications" Pacific Regional Science Conference Organization, Seoul, Korea, July 1999
270. "Percolation Model of Transportation Flows" Computational Geography Conference, Fredericksburg, VA, July 1999
271. "Towards a Model of Knowledge Management in Organizations as Communities of Practice (COP): A Neural Network Approach" International Conference on Technology Policy and Innovation, Austin, TX September 1999
272. "Transportation and Telecommunication Substitution" International Transportation and Telecommunication Symposium and the Japan Regional Science Meeting Kumamoto, Japan, October 1999
273. "Methodological Issues in Estimating Environmental Equity" and "Location and Telecommunications" Applied Geography Conference, Charlotte, NC, October 1999
274. "US Manufacturing Productivity and Infrastructure" International Symposium on Structural Change in Transportation and Communications in a Knowledge Society: Boston University, Kyoto University and US DOT Bureau of Transportation Statistics Boston, MA October 1999
275. "Infrastructure and Regional Dynamics" North American Regional Science Conference Montreal, CA November 1999
276. "Public-Private Partnership: Experience in Transportation Financing in the US" and "Woodrow Wilson Bridge ITS Benefits Priorities" Oresund Bridge Infrastructure Conference, Copenhagen Denmark, December 1999
277. "Transportation and Telecommunication Competition" International Symposium on Regional Development, Port Elizabeth South Africa, January 2000
278. "Transport Infrastructure and Regional Development" Western Regional Science Association Kauai, Hawaii, February 2000
279. "PROSCAL Applications in ITS Assessment" Lectures in Honor of Reginald Gullledge Association of American Geographers Meetings Pittsburgh, PA, March 2000
280. "Manufacturing in Southern Economic Development" Southern Regional Science Association Miami, FL, April 2000
281. "Multidimensional Scaling of Transport Priorities" Delft University/George Mason University Joint conference on Converging Infrastructure Fairfax, VA, April 2000
282. "Demand Assessment of Telecommunication/Transportation Tradeoffs" International Regional Science Congress International Lugano, Switzerland, May 2000

**CONFERENCE PAPERS (Continued)**

283. "Networks vs Networked Committees" International Symposium on Transportation and Communications" Kyoto University - Boston University DOT (BTS) Symposium, Kyoto, Japan, May 2000
284. "Telecommunication and Transportation in the Economic Geography of Regions" International Conference on the Economic Geography of Regional Development, Uddevalla, Sweden, June 2000
285. "Telecommunications and Transportation: Opportunities and Tradeoffs in Economic Developments – US National Capitol Region, Lessons Learned" Center for Transportation Analysis and Management and Australian Housing and Urban Research Institute, University of Queensland, Public Sector Workshop Customs House, Brisbane, Australia, July 2000
286. "Transport Research Models" Department of Geography, University of Canterbury, Christchurch, New Zealand, July 2000
287. "Entrepreneurships and Small Firms in Regional Patterns of Innovation" Conference on Technology and Innovation Policy, Curitiba, Brazil, August 2000
288. "Integrating Decision Models for Policy Support in Regional Economic Development" Regional Science and Technology Policy Conference, Mie, Japan, August 2000
289. "Knowledge Management Models" European Regional Science Association Meeting, Barcelona, Spain, August 2000
290. "A Percolation Model of Accessibility" Keynote Lecture, Pacific Regional Science Conference Organization Symposium, Nihon University, Tokyo, Japan, September 2000
291. "The Impact of Information Technology on Spatial Patterns of Urbanization" Conference of Applied Geographers, Tampa, Florida, October 2000
292. "Regional Systems and Regional Change" North American Regional Science Meetings, Chicago, Illinois, November 2000
293. "Decision Systems and Policy" Association of Public Policy and Management Seattle, Washington, November 2000
294. "Australia, Canada, U.S. Comparisons in Manufacturing Productivity Change" Australia – New Zealand Regional Science Association Conference, Hobart, Tasmania, December 2000
295. "Spatial Interdependence and Estimation of Telecommunication Investment Impacts" at the Western Regional Science Association Meetings jointly with the American Econometrics Association, Palm Springs, CA, February 2001
296. "Modifiable Areal Unit Problem and Scale Independence: A Demonstration", The Association of American Geographers Annual Meetings, New York, NY, March 2001

**CONFERENCE PAPERS (Continued)**

297. "Neural Networks and Knowledge Management in Creative Regions", Keynote Speaker, Swedish Regional Development Meeting, Uddevalla, Sweden, June 2001
298. "Telecommunication Investment Impacts on Regional Growth", Critical Infrastructure Conference, Delft, Netherlands, June 2001
299. "Telecommunications Measures of Successful Regional Investments", Pacific Regional Science Conference Organization, Portland, Oregon, July 2001
300. "Human Capital and Social Capital in Brazil: Contrary Evidence", International Union for the Scientific Study of Population (IUSSP), General Population Conference,
301. "European and North American Perspectives on Regional Science Reference Groups: Are We in the Same World," French Language World Regional Science Conference, Bordeaux, France, September 2001
302. "Doing Better By Doing Worse: NIH's General Research Centers Efficiency in the 1990's", Seventh Annual European Conference on Productivity, Oviedo, Spain, September 2001
303. "Sectoral Impacts of Telecommunications Investments: Regional Policy Implications", Bendigo, NSW Australia, October 2001.
304. "SPP/ GMU Program Development" Policy Program Review University of North Carolina, Charlotte Jan 31- Feb 1 2002
305. "New Transportation Models for Trans Atlantic Comparisons" STELLA Inauguration NSF/ ESF Agenda Setting Meeting Amsterdam, Netherlands Feb 8-9 2002
306. "Higher Education Efficiency Modeling" Southern Regional Science Association Key Bridge, Arlington Feb 11-12 2002
307. "Transportation Infrastructure Utilization" Western Regional Science, Monterey, California Feb 17-20 2002
308. "Transportation and Environmental Justice" STELLA Workshop, Helsinki Finland May 2-4 2002
309. "Optimizing Telecommunication Utilization System" Mid-continent Regional Science Meeting, Kansas City, MO May 30- June 1 2002
310. Keynote: "Telecommunication and Spillovers: Policy and Optimization" Sweden – EU Regional Development Program, Uddevalla June 6-8 2002
311. "Telecommunications, Investments and Sectoral Impacts in U. S. Manufacturing" Policy and Innovation Program, Delft Netherlands June 16-20 2002

**CONFERENCE PAPERS (Continued)**

312. "Integrity Decision and Analysis Model" Pacific Regional Science Conference, Bali Indonesia June 20-25 2002
313. "Manufacturing Productivity and European Integration" Western Economic Associates Meeting, Seattle, Washington June 29 – July 3 2002
314. "Regional Economic Assessment Models" China Regional Science Meetings and Lecture Program Beijing, Tsing Dao, Nanjing, Wu Han July 8-16 2002
315. "Management of RSAI and their Constituents" Australia/ New Zealand Regional Science Meeting Perth Australia Sept 19-27 2002
316. "Systems and Technology Policy" at SPP/ GMU's Workshop on Systems Engineering, Loughborough University, Loughborough UK Feb 20-22 2003
317. "Education, Wealth and Social Capitol in Brazil" Western Regional Science Meetings, Rio Rico, Arizona Feb 27 2003
318. "Theory and Practice in Indian Research Development in the U. S." NSF Workshop on the Indian Development Experience Bangalore, India Mar 3-4 2003
319. "Entrepreneurship and Small Business Development in the U. S.", Invited Presenter of State of Kanataka Parliament, Bangalore, India Mar 4 2003
320. "Transportation and Environment" Southern Regional Science Association Meeting, Louisville, KY April 10-13 2003
321. "Justice and Environmental Decisions" Mid Continent Regional Science, Cleveland Ohio May 29-31 2003
322. "Integrating Decision Modeling and Regional Analysis" Keynote Speaker, Entrepreneurship Workshop, Uddevalla, Sweden June 12-14 2003
323. "Entrepreneurship Theory and the Public Sector" Trans Atlantic Policy Consortium, Speyer Germany, June 16-18 2003
324. "Social and Human Capital in Brazilian States" Pacific Regional Science Organization, Acapulco, Mexico June 29 – July 4 2003
325. "Changes in U. S. Manufacturing Productivity" Indonesia Regional Science Association, Bandung, Indonesia July 14-24 2003
326. "Public Policy and Management in the U. S." University of Tampere, Department of Management and Regional Studies, Tampere, Finland August 23-24 2003
327. "Transportation Institutions and Economic Development" ANZRSA Meeting, Perth Australia (Sept 23-24)

**CONFERENCE PAPERS (Continued)**

328. "Public Policy and Political Geography" Festival de Geografie, France IGU Commission on Applied Geography St. Die (Oct 1-3)
329. "Technology, Telecommunications and Regional Economic Change" European Regional Science Association Helsinki, Finland Aug 25-30 2003
330. "Decision Models and Regional Policy" and "Knowledge Management and Development," Alternative Development Strategies – India and China, Tsinghua University, Beijing China Oct 21 2003
331. "Modeling Human Capital in Brazil" Economic Development and Urbanization Chinese Regional Science Meeting, Beijing China Oct 22-23 2003
332. "Alternative Trade Prospectus" Chinese Fair Trade and Balanced Development Workshop, Tsinghua University, Beijing China Oct 24 2003
333. "Models of Knowledge Management and Organizational Stability" Chinese Academy of Sciences for Management and Policy Beijing China Oct 28 2003
334. "Entrepreneurship and Humanitarianism: The National Endowment Funding Issue" American Public Policy and Management Association Meeting, Washington DC Nov 7-8 2003
335. "A Boolean Network Transportation Model" Invited Keynote Lecturer, Transportation and Development Conference, University of Illinois, Urbana Nov 17-19 2003
336. "Regional Centers' Consortia Proposal" North America Regional Science Conference Philadelphia, PA Nov 20-23 2003
337. "Hub Ports and Regional Development" Keynote Lecture, Free Port Conference, Kaoshing, Taiwan, China Dec 20-21 2003
338. "Cooperation and Conflict in Organizational Management" Keynote Address, International Conference on Conflict, Peace and Development in South Asia, National Law University, Jodhpur, India, January 10 2004
339. "Transportation Models for Regional Management" Keynote Address, Conference on Innovation Technology and Regional Science Conference, Joint- Sponsor National Institute Public Finance and Policy (NIPFP) and the Institute for Integrated Learning in Management (IILM), New Delhi, India, January 12 2004
340. "Human, Social and Financial Capital in Brazilian States" Western Regional Science Association Meetings, Maui Hawaii February 2004
341. "Stability of COPS in Knowledge Management" and "Regional Research Institute and Their Future" Southern Regional Science Association, New Orleans, Louisiana Mar 12 2004

**CONFERENCE PAPERS (Continued)**

342. "Institutions for Sustainable Transportation Management: Principles and Evolution"  
Fleming Lecture in Transportation, Keynote: 100th National Anniversary Meeting of the  
Association of American Geographers, Philadelphia March 12 2004
343. Regional Science Association International World Congress: "Analysis of Freeway Traffic  
Control," "Knowledge Networks and Learning," and "Social Capital within Brazilian  
Families" Port Elizabeth, South Africa April 14-17 2004
344. "Transportation and Spatial Systems" Arthur Getis Fetschrift, California State University at  
San Diego, San Diego CA, May 7-8 2004
345. "ITS Management Models" Invited Lecture TRANSTEC: European Transportation  
Science and Technology Conference, Athens, Greece, September 1-5, 2004
346. Keynote: "Regional Development and Decision Integration," Japan Real Estate Science  
Association Tokyo, Japan, May 19 2004
347. Invited Lecture: "Stability of Knowledge Management in Regional Organizations" Chiba  
Commerce University, Tokyo, Japan, May 20 2004
348. Keynote: "A Model of Knowledge Networks in Regional Systems," Scandinavian-EU  
Uddevalla Regional Development Workshop, Fredrikstad, Norway, June 17-19 2004
349. Invited Speaker: "Political Geography and Policy Analysis" Commission on Applied  
Geography, International Geographical Union, World Congress, Glasgow, Scotland  
August 11-16 2004
350. Keynote: "Models of ITS Management" International Colloquium of the Pacific RSI,  
Tokyo, Japan, September 2004
351. "Sustainable Transportation: Models and Evolution" Japan Regional Science Association  
Meetings, Tokyo, Japan, September 2004
352. "Transportation in Urban Management and Random Boolean Networks" Australia-New  
Zealand Regional Science Conference, Wollongong, Australia Sept 2004
353. "Regional Transportation Institutions: Global and Local" Department of Geography  
Alumni Reception, Western Michigan University, Kalamazoo, MI October 2004
354. "Transportation 'Real-Time' Models" North American Regional Science Conference,  
Seattle, WA November 2004
355. "European Integration and International Trade in Manufacturing: Employment and  
Productivity" Indian Institute for Foreign Trade, New Delhi, India December 2004
356. "Transport, Trade and Competitiveness" National Institute of Public Finance, New Delhi,  
India December 2004

**CONFERENCE PAPERS (Continued)**

357. "Issues in Public Governance" Conference in Dividends from Good Governance, All India Management Association, New Delhi, India December 2004
358. "Telecommunication Efficiency in the US: Lessons for China," Invited Speaker, School of Public Policy and Management, Tsinghua University, Beijing, China (Dec 2004)
359. Public Lecture upon being named Associate Faculty of East China Normal University: "Spatial Spillovers in Telecommunication Costs and Benefits," School of Natural Resources and Environment, Department of Geography, Shanghai, China January 2005
360. "ITS and New Transportation Models" Visiting Lecture, McMaster University, Hamilton, Ontario, CANADA Jan 21 2005
361. "Transportation Models: Lessons from Algebras", Gosnell University Lecture, Rochester Institute of Technology, Rochester, NY Feb 10 2005
362. "Modeling Safety: Ramps and Churn" Western Regional Science Association, San Diego, CA Feb 2005
363. "Traffic Grammar" National Meeting Association of American Geographers, Denver, CO April 4 2005
364. "Ramp Access Models" Southern Regional Science Association/ Mid-Continent Association Joint Meeting, Arlington, VA April 6 2005
365. "Boolean Algebra Application to Transportation Modeling" Invited Lecturer, NSF Workshop on Network Analysis, Pennsylvania State University, State College, PA May 2005
366. "Sustainable Transportation Institutions: Lessons from Global and Local Perspectives" Invited Lecturer, New Zealand Social Science Council, New Zealand Tertiary Education Commission on Building Research Capacity in the Social Sciences, Victoria University, Wellington, New Zealand, May, 2005
367. "Knowledge Networks in Learning Regions" Invited Lecturer, Social Science Department, University of Canterbury, Christchurch, New Zealand, May 2005
368. "Traffic Linguistics" US-EU Sustainable Transport Evaluation of Logistics and Linkages Across the Atlantic (STELLA), Network of European Communication and Transportation Analysis and Research (NECTAR), NSF/ESF funded program, Las Palmas, Spain, June 2005
369. "Knowledge Networks in Competitive Regions" European Science Foundation (ESF) Program on Knowledge and Regional Development, Barcelona, Spain, June 2005
370. "DaVinci Roundtable on Geographic Systems" Participant French Regional Science Group, Nice, France, June 2005

**CONFERENCE PAPERS (Continued)**

371. "Algorithmic Entropy in Transportation Patterns" Keynote, Innovation, Dynamic Regions and Regional Dynamics, International University of Jonkoping, Jonkoping, Sweden, June 2005
372. "European Integration and International Trade" International Conference on Policy Modeling (Ecomod Network 2005) Istanbul, Turkey, July 2005
373. "Telecommunication Spillovers across US States" School of Public Policy and Management, Tsinghua University, Beijing, China, July 2005
374. "Verdoorn's Law or Why Innovation Matters" Center for Regional Development, Guanchou, China and Bankers Association, Jian Shendong, China, July 2005
375. "Approximate Entropy in Traffic Jams" Pacific Regional Science Conference Organization, Nikou University, Tokyo, Japan, July 2005
376. "Transportation and Regional Development" Festschrift for Antoine Bailly, French Language Regional Science Association (Geneva, Switzerland and Dijon, France), September 2005
377. "Entrepreneurship in China's Mobil Telephone Growth: the Public Sector Role" Uddevalla Conference, Sweden, September 2005
378. "Economic Ecological Efficiency Measures" Workshop on Ecological-Economic Modeling, Waikato University, Hamilton, New Zealand, September 2005
379. "Human and Social Capital in Wealth Creation" BRCSS Conference on Demographics and Intergeneration Wealth Transfer, Waikato University, New Zealand, September 2005
380. "Language Models of Transportation Pattern Complexity" Australian and New Zealand Economic Development Association/Australia-New Zealand Regional Science Association International, Auckland, New Zealand, September 2005
381. "Innovation, Technology and Latecomer Strategies: China's Telecom Industry " Applied Geographic Meetings, Washington, DC November 2005
382. "India Rising: Implications for US Science and Technology Policy" American Public Policy Management Association (APPAM) Research Conference, Washington, DC, November 2005
383. "Transportation Complexity: A Linguistic Perspective" North American Regional Science Association Meeting, Las Vegas, NV, November 2005
384. "Transportation and Telecommunications Trade Offs: A Regional Approach" Keynote Lecture, Regional Research Institute, West Virginia University, Morgantown, WV, December 2005

**CONFERENCE PAPERS (Continued)**

385. “India Rising: Science and Technology Policy” and “Modeling Traffic Flows” Regional Science Association International – India Initiative, Bangalore, India, January 2006
386. “Infrastructure Models of Investment” Western Regional Science Association, Santa Fe, NM, February 2006
387. “Geography and Transportation Models” Invited Keynote Lecture for Quantitative Analysis and Modeling Group, Association of American Geographers, Chicago, IL, March 2006
388. “Transport Systems for ITS Integration” Invited Lecturer Regional Science Association International – China Initiative, Shanghai, China, April 2006
389. Judge and Lecturer, New Scholars Conference on Sustainable Transport, Indiana University, Bloomington, IN (May 2006)
390. “Transportation and Policy” Transatlantic Policy Conference, Warsaw, Poland, June 2006
391. “Transport and ITS Systems” Mid-Continent Regional Science Association, Indianapolis, IN, June 2006
392. “Total Factor Productivity and Shift-Share Evolution” Joint GMU-Jonkoping International University Uddevalla Conference, Fairfax, VA, June 2006
393. “Applied Research for Impact” International Geographical Union, Brisbane, Australia, July 2006
394. “Transportation and Regional Policy” Pacific Regional Science Organization, Kuala Lumpur, Malaysia, July 2006
395. “China Telephone Expansion by Region” European Regional Science Association, Volos, Greece, September 2006
396. “Telecommunication Diffusion in China” Australia-New Zealand Regional Science Association, Beechworth, Australia, September 2006
397. “Mobile Telephone Expansion in China” Invited Lecturer Chilean Regional Education and Applied Regional Science Conference, Antofagasta, Chile, October 2006
398. “Technology and Diffusion: Policy Parameters” Brazilian Regional Science Association and World Regional Science Conference, Iguassu Falls, Brazil, October 2006
399. Policy Issues in Microbial Resistance – Chair and Discussion Leader AMA and WMA Host, GMU, Fairfax, VA, October 2006
400. Regional Medical Policy and Obesity – Chair and Discussion Leader American Public Policy and Management Association, Madison, WI, November 2006

**CONFERENCE PAPERS (Continued)**

401. Policy and Regional Science, North American Regional Science Conference, Toronto, Canada, November 2006
402. “Infrastructure: The Glue of Megacities” Keynote Lecturer Megacity Foundation and Netherlands Institute for City Innovation Studies, The Hague, Netherlands, December 2006
403. Infrastructure Investment and Economic Growth in China” Western Regional Science Association, Newport, CA, February 2007
404. “Program Review Presentation” for Building Research Capacity in the Social Sciences, New Zealand Higher Education Commission Social Policy Research Conference (SPRE), Wellington, NZ, April 2007
405. “Mobile Telephone Manufacturing Expansion in China” Association of American Geographers, San Francisco, CA, April 2007
406. “Static and Dynamic Approaches to Convergence – Does It Matter? Telecom in China” and “Making Geographic Findings Matter” Pacific Regional Science Conference Organization (PRSCO), Vancouver, Canada, May 2007
407. “Urban Infrastructure in the Americas: Public Policy and Spatial Planning” Keynote Speaker and AAG/Grosvenor Center Conference on Collaboration on Research and Education in the Americas, La Serena, Chile, May 2007
408. “Modeling the Spatial Diffusion of Mobile Communications in China” International Uddevalla Conference, Uddevalla, Sweden, June 2007
409. “Intrapreneurship and Organizational Change: Lessons for the Public Sector?” International Conference of Administrative Services, Abu Dhabi, UAE, July 2007
410. “Applied Research – Themes and Future – In Regional Science” European Regional Science Association and the French Language Regional Science Association, Paris, France, September 2007
411. “Building Research Capacity in the Social Sciences: A Report” Australia-New Zealand Regional Science Association and Small Enterprise Conference, Manukau City, NZ, September 2007
412. “Pros and Cons in Static and Dynamic Modeling” North American Regional Science Conference, Savannah, GA, November 2007
413. “Advances in Shift-Share Methodology”, Spatially Integrated Social Science Workshop for the Australian Research Council, Brisbane, Australia (University of Queensland), February 10-13, 2008

**CONFERENCE PAPERS (Continued)**

414. "Telecommunications Infrastructure and Regional Convergence in China", Regional Endogenous Development Workshop – Tinbergen Conference, Brisbane, Australia, February 14 -15, 2008 (Chair and Discussant)
415. "Telecommunications and Infrastructure: Panel Data Approach" Western Regional Science Meetings, Hawaii, February 17-20, 2008 (Chair and Discussant)
416. "National Convergence in Technology Development: A China Case Study Using Panel Data", RSAI World Planning Workshop at the World Regional Science Congress, Sao Paulo, Brazil, March 2008
417. "Measuring Regional Income Convergence", Central Bank of Argentina Workshop on Regional Aspects of National Development, Buenos Aires, Argentina, March 2008
418. "Regional Income Convergence in China", Southern Regional Science Association, Arlington, VA, March 26-30, 2008
419. "Convergence and Panel Data Approaches", Association of American Geographers Annual Meetings, Boston, MA, April 16-18, 2008
420. "Immigration Policy and Reform: A Transatlantic Perspective", The Transatlantic Policy Consortium Colloquium, School of Public Policy, Erfurt University, Erfurt, Germany, June 1-3, 2008
421. "A Path of Human Capital Development in Brazilian States", Getis Lecture, San Diego State University, San Diego, CA, September 2008
422. "Applied Geography and Public Policy: An IGU Perspective", Conference of Applied Geographers, Wilmington, DE, October 2008
423. "Income Convergence in China: A Panel Approach", North American Regional Science Meetings, Brooklyn, NY, November 2008
424. "Convergence Analysis in the Chinese Economy" and "Shift-Share in Spatial Context", Australia-New Zealand Regional Science Meetings and ARC's Spatial Analysis for Social Science Workshop, University of Queensland, Brisbane, Australia, November 2008
425. "Diffusion Pattern of China's Telephony", Western Regional Science Conference, Napa, CA, February 2009
426. "Glue of Megacities", Anderson Lecture in Applied Research, Association of American Geographers National Meetings, Las Vegas, NV, March 2009
427. "Measuring Diffusion Patterns", Southern Regional Science Association, San Antonio, TX, April 2009

**CONFERENCE PAPERS** *(Continued)*

428. "Higher Education Expansion in Vietnam", Building Opening Conference, Vietnam International University, Ho Chi Minh (Saigon), Vietnam, May 2009
429. "US R&D Policy Structure", Transatlantic Policy Consortium Conference, Jökoping, Sweden, May 2009
430. "Diffusion and Spillovers in FDI", Uddevalla Conference, Bari, Italy, June 2009