

Donald A. Hicks, Ph.D.

Public Policy & Political Economy
School of Economic, Political and Policy Sciences
The University of Texas at Dallas
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Educational History

- Ph.D., May 9, 1976, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, Sociology Dissertation Title: *An Analysis of Patterns of Change in the Evaluation of the Federal Role in School Desegregation: 1956-72.*
- B.A., June 9, 1969, Indiana University, Bloomington, Indiana, Sociology

Current Affiliation – The University of Texas at Dallas

- Professor, Political Economy and Public Policy 1987-Present
- Executive Director, Southwest TelePresence Network (STPN) 2011-Present
A collaboration platform for multi-enterprise research and teaching hosted by UT Dallas
- Special Assistant (Office of the President) 2006-Present
- Associate Professor, Political Economy and Public Policy 1979-87
- Assistant Dean of Graduate Studies 1976-79
- Assistant Professor, Political Economy and Sociology 1975-87

Professional Experience

- Associate Director, Institute for Intelligent Energy Systems 2009-Present
- Founding Principal, NanoMaterials Design and Commercialization Center (NDCC) at Alliance, Alliance Airport, 13600 Heritage Parkway, Suite 100-B, Fort Worth, Texas 76177 2007-Present

- Senior Research Fellow, IC² Institute, UT-Austin, Austin, Texas 2000-Present
- Senior Consultant, North Texas Commission, DFW International Airport, Texas (on leave from UT-D) 1989-1991
- Vice President, Strategic Regional Analysis, North Texas Commission, DFW International Airport, Texas (on leave from UT-D) 1986-1989
- Vice Chair, Bruton Center for Development Studies 1989-1996
- Senior Staff, President's Commission for a National Agenda for the Eighties, Executive Office of the President (EOB) , Office of Management and the Budget (OMB), Washington, D.C. (on leave from UT-D) 1980-1981
- Research Analyst, U.S. Navy Intelligence, Southeast Asia Captivity Experience Project, Fort Belvoir, Virginia. 1975
- Research and Evaluation Specialist, Office of the Governor, State of North Carolina, Governor's Management Task Force, Raleigh, North Carolina. 1973-1974
- Research Consultant, Technical Planning, Inc., Department of Probation and Parole, State of Delaware, Wilmington, Delaware 1972
- Lt., USNR (Active Duty), Instructor, U.S. Naval Academy Preparatory School, Bainbridge, Maryland 1970-1972
- Research Liaison, Metropolitan Studies Program, Indiana University-Purdue University Campus and Model Cities, Indianapolis, Indiana 1970

Research Interests

My research and consulting activities have been focused on the economic and industrial dynamics of scientific discovery and technological innovation, with special focus on processes of emerging technologies and industries. Current research includes studies on prospects for anticipating demand for ultra-precision composite and nano-scale production, “designer materials,” toolsets and precision manufacturing processes; the role of venture capital investment in regional/industrial transformation; value creation in bioscience commercialization; the role of information and communication technologies (ICT) in health care service transformation; and time-to-market competitive pressures on product innovation and industry change. Since 2006, I have served as Special Assistant to President Daniel. In this role I seek to extend the “reach” of UT-D’s influence by creating/developing relationships and thickening institutional interactions and collaboration between university-based research activities and industrial and commercial activities in North Texas and beyond. Currently, I am guiding the development of four strategic initiatives that engage a variety of centers of research and education across the university and target convergence opportunities at the intersection of key regional industrial and technology competencies. In addition, I continue to teach in the Public Policy and Political Economy graduate program and conduct research with – and supervise dissertation research – with several graduate students in both the EPPS and Economics graduate programs.

Professional Memberships

- Association for Public Policy Analysis and Management (APPAM)
- North American Regional Science Association
- IEEE-EMBS
- Technology Transfer Society

Honors and Other Recognitions

- Phi Beta Kappa, **1969**
- Indiana University, Graduation with Distinction (College of Arts and Sciences) and Departmental Honors, **1969**
- Woodrow Wilson fellowship (Honorable Mention), **1969**
- Eta Sigma Phi (Classics), Phi Eta Sigma and Alpha Lambda Delta scholastic honoraries **1969**
- Indiana University Merit Scholarship, **1965-69**
- Bob Hope Scholarship, **1967-68** and **1968-69**
- Elvis J. Starr Distinguished Senior Award (Semifinalist), Indiana University, **1969**

Awards and Fellowships

Achievements in Original Investigation and Research

Federal Grants

- 2011 Grant Proposal Team, North Texas Regional Extension Center (NTREC) proposal to the Department of Health and Human Services (DHHS) in collaboration with the University of Texas Southwestern Health Sciences Center and the DFW Hospital Council. HHS grant awarded to the DFW Hospital Council Research and Education Foundation (\$8.7 million), one of four grants received in Texas totaling \$34.7 million covering the 2010-12 period.
- 2006 "Assemblers for Nanotechnology Applications and Manufacturing: Commercialization Potential NIST-ATP, Award # 70NANB1H3021. PI: J. Von Ehr, and J. Randall, Zyvex. D. Hicks prepared the commercialization assessment for the 5-year study.
- 1991 "Rediscovering Urban America: Annotated Outline for the *1992 President's National Urban Policy Report*." Office of Policy Development, U.S. Department of Housing and Urban Development (HUD)
- 1984 "New Technology in the American Machinery Industry: Trends and Implications." (with J. Rees), Joint Economic Committee, U.S. Congress, Washington, D.C., (March) 1979 "Reassessing Transportation Needs of the Elderly," National Institutes of Health & Department of Health, Education and Welfare, PI: D. Hicks, (1 RO1 AG01464-01).

State Grants

- 2009-2010 "NDCC Scholars Program," Tarrant County College (TCC) and the NanoMaterials Design and Commercialization Center (NDCC), Texas Workforce Commission (TWC), \$520,000
- 2007-2009 NanoMaterials Design and Commercialization Center (NDCC), Tarrant County College (TCC), \$1,500,000.
- 1992 "A 'Nanoeconomic' Perspective on the Growth and Development of the Texas Manufacturing Base, 1970-91," Office of the Comptroller, State of Texas, \$3,000.

- 1989-1990 "Business Opportunities Guide: Matching Superconducting Super Collider (SSC) Industrial and Operational Requirements to the Texas and Dallas/Fort Worth, Metroplex Industrial Bases." PI: D. Hicks, Texas National Laboratory Research Commission (TNRLC) and the North Texas Commission (NTC), \$10,000.
- 1988-1990 "Superconducting Super Collider (SSC) Impact Analysis," (With Edward L. McClelland). Texas National Laboratory Research Commission (TNRLC) and the North Texas Commission (NTC),
- 1989-1990 "Matching Superconducting Super Collider (SSC) Industrial Requirements to the Texas Industrial Base," Bruton Center for Development Studies, Texas National Research Laboratory Commission (TNRLC), North Texas Commission (NTC), and the Dallas Fort Worth International Airport, Texas \$10,000.
- 1979-1980 "Reassessing Transportation Needs of the Elderly," National Institutes of Health and Department of Health, Education and Welfare, PI: D. Hicks, (1 RO1 AG01464-01).

University Grants

- 2007 "Role of Wireless Technologies in Enterprise Transformation" PI: M. Oliff, Enterprise 2020 Program, School of Management, Verizon Communications
- 2008 "Intelligent Medical System Interactive Website Development," PI: D.A. Hicks, BioDFW
- 2006 "North Texas Transit Study" Co-PIs: C. Leonard, D. Hicks, & K. Beron), Fort Worth Transportation Authority, DART and Denton Country Transit Authority
- 2006 "Market Entry and Market Value: Linking Drug Innovation to Financial Performance in the U.S. Biotechnology Industry," PI: D. Hicks, The University of Texas Southwestern Medical Center (Dissertation support, L. Hung)
- 2004 "North Texas Literacy Project" North Texas Future Fund (North Texas Commission) PI: D. Hicks (with K. Kuhne), \$18,500
- 2003 "OPEX Training Program Design, Development & Delivery, Ericsson North America, Co-PIs:D. Hicks, S. Radhakrishnan and M. Anderson (SOM) \$50,000
- 1990 "Matching the Industrial Base of Seven States to the Industrial Requirements of the Superconducting Super Collider (SSC)." Bruton Center for Development Studies, PI: D. Hicks with Constance Howells, Texas National Laboratory Research Commission (TNRLC) and North Texas Commission (NTC), \$30,000.

- 1990 "Regional Income and Employment Effects of Federal Contract Research and Development Finds," Research Partners Program, PI: D. Hicks. \$9,500.
- 1989 "The Regenerating Economy: Job Creation and Destruction in Advanced Urban Economies," PI: D. Hicks, Urban Land Institute, Washington, D.C. Separate reports for Orlando, Florida; San Diego, California; Lexington, Kentucky; Austin, Texas; Greater Atlanta, Georgia; and the City of Atlanta, Georgia. \$35,000.
- 1989 "Advanced Electronics Manufacturing Production and Development: A Competitive Analysis," North Texas Commission (NTC), PI: D. Hicks
- 1988 "The Regenerating Economy: Job Creation and Destruction in Advanced Urban Economies," PI: D. Hicks, North Texas Commission (NTC) and the Dallas Fort Worth International Airport.
- 1983 "The Transforming Dallas-Fort Worth Metropolitan Economy: 1963:1983," Organized Research Grant, State of Texas.
- 1979 "Capital Punishment, Public Opinion and the Law, 1936-72." PI: D. Hicks with Harold Lester, Organized Research Grant, State of Texas.
- 1978 "The Residential Adjustment Process: A Study of the Adaptation of Immigrants to New Residential Locations," Co-PIs: D. Hicks and David Morgan, Organized Research Grant, State of Texas.
- 1976 "Public School Desegregation and White Flight in Dallas, Texas," PI: D. Hicks, Organized Research Grant, State of Texas.
- 1975 "Collaborative Approach to Services for the Elderly," (Project CASE), UT Dallas, UT-Arlington, and UT Health Sciences Center Consortium Project.

Private/Nonprofit Sector Funding

- 2010-2012 NanoMaterials Design and Commercialization Center (NDCC) at Alliance Renewal grant (\$250K) awarded via Tarrant County College (TCC) in 2010. Period covered: Calendar Year 2011.
- 2009-2011 NanoMaterials Design and Commercialization Center (NDCC) at Alliance, Lockheed Martin Aeronautics, "Advanced Composite Materials and Manufacturing Processes for the Aerospace Defense Advanced Manufacturing (ADAM) Sector" \$250,000/year (3-years).

Scholarly Publications and Policy Research Reports

Books/Research Monographs and Major Policy Reports

- 2004 *Bringing Dallas to Life-Accelerating the Development of a Regional Bio-Economy: Opportunities and Obstacles* (2004), STARTech Early Ventures.
- 2004 *Creating a Biotechnology Cluster in the Dallas Region: Rationale and a Roadmap*, STARTech Early Ventures.
- 2003 *The Evolving DFW Metroplex Economy: Performance and Prospects*, North Texas Future Fund, <http://www.ntc-dfw.org/news/eereport.html>
- 1993 *Rediscovering Urban America: Perspectives in the 1980s*, (Co-editor with J. Sommer), U.S. Department of Housing and Urban Development, Washington, DC, (January)
- 1993 *A Nanoeconomic Perspective on the Growth and Development of the Texas Manufacturing Base, 1970-91*, Office of the Comptroller, State of Texas, (March)
- 1988 *Is New Technology Enough? The Making and Remaking of U.S. Basic Industries*, (Ed.) American Enterprise Institute for Public Policy Research (Washington, DC)
- 1987 *Urban Studies*, (Guest Editor, Special Double Issue) *New Issues in National Urban Policy*, Vol. 24, No. 6; (December)
- 1986 *Automation Technology and Industrial Renewal: Adjustment Dynamics in the U.S. Metalworking Sector*, American Enterprise Institute for Public Policy Research (Washington, D.C.)
- 1985 *Advanced Industrial Development: Restructuring, Relocation and Renewal*, Oelgeschlager, Gunn & Hain (Boston, MA)
- 1983 *Transition to the 21st Century: Prospects and Policies for Economic and Urban-Regional Transformation*, (Co-editor with Norman J. Glickman), JAI Press, (Greenwich, CT)
- 1981 *Urban America in the Eighties: Perspectives and Prospects*, Transaction Books, (New Brunswick, NJ)
- 1981 Originally published as *Report of the Panel on Policies and Prospects for Metropolitan and Nonmetropolitan America*, President's Commission for a National Agenda for the Eighties
(<http://www.marcive.com/scripts/webdocs.dll?Cmd&DLIS&D1431FI1E1E1I1362>)

D6 C14I29AD939I4D037C3I0I362D6C16EC3800I38B98C16&0&SBIB]. Reprinted by 1) Prentice-Hall, (Englewood Cliffs, NJ); 1982, and 2) U.S. Government Printing Office, (Washington, DC) in *Intergovernmental Relations in the 1980s*. [Note: For one assessment of the report's impact, see James Fallows' *Atlantic Monthly* article <http://theatlantic.com/politics/ecbig/landscap.htm>].

- 1974 Governor's Management Task Force on Human Progress: An Analysis of Income and Poverty in North Carolina (with Ronald C. Lippincott and Paula Craddock), Governor's Office, State of North Carolina, Raleigh, North Carolina.

Refereed Articles, Chapters in Edited Books and Conference Proceedings

- 2007 "Intelligent ICT-Enabled EMS: Eclipse of the 'Golden Hour.'" (with J. Cox) *IEEE-Engineering in Medicine and Biology Society, Proceedings*, (Oct.), pp. 59-63.
- 2004 "New Firm Formation: Dynamics and Determinants," (with V. Sutaria) *Annals of Regional Science* (Special Issue on Firm Demography and Spatial Dynamics), Vol. 38, No. 2 (May-June), pp. 241-262. Reprinted in *IUP Journal of Industrial Economics*, ICFAI Press.
- 2003 "Schumpeterian Churn Dynamics and Regional Productivity Performance," (with Y. Lee) *International Business & Economic Research Journal*, Vol. 2, Number 1, (January), pp. 83-98.
- 2004 "New Firm Formation: Dynamics and Determinants," (with V. Sutaria) *Annals of Regional Science*. Vol. 38, pp. 241-262.
- 2001 "The Financial Undertow of Rapid Technical Advance in New Product Development," *Journal of Engineering and Technology Management*, Vol. 1096, pp. 1-23.
- 2001 "Innovation Dynamics and Endogenous Adjustment in the Telecommunications Industry," *Economics of Innovation and New Technology, Special Issue on Innovation in Telecommunications* Vol. 10, No. 2-3, pp. 141-168.
- 2001 "Technical Innovation and Endogenous Adjustment in the Telecommunications Industry," *Economics of Innovation and New Technology*, Vol. 10, pp. 141-68.
- 2000 "Beyond Globalization: Localized Returns to IT Infrastructure Investments," (with S.R. Nivin) (April). *Regional Studies*, Vol. 34, No. 2, pp. 115-27.

- 2000 "Time Wars: Is There a Financial Undertow from Accelerating Technical Advance?" **Research-Technology Management**, Vol. 43, No. 2, (March-April), pp. 34-9. [<http://www.iriinc.org/RTM.htm>]. Also p. 407 in **Proceedings, Vol. 1, Portland International Conference on Management of Engineering and Technology** (PICMET '99), Portland, OR (July).
- 1999 "Social Distress and the Urban Underclass," pp. 15-24 in R. D. Norton (Ed.) **The Millennium City: Classic Readings on U.S. Urban Policy**, Research in Urban Economics, Vol. 12, JAI Press.
- 1999 "Social Distress and the Urban Underclass," pp. 15-24 in R. D. Norton (Ed.) **The Millennium City: Classic Readings on U.S. Urban Policy**, Research in Urban Economics Series, Vol. 12, JAI Press.
- 1998 "Agility and Endogenous Adjustment: Semiconductor Manufacturing As a Complex Adaptive System," **Agility and Global Competition**, Vol. 2, No. 2, (Spring), pp. 66-84.
- 1997 "Deep Industrial Dynamics Shaping Next-Generation Semiconductor Manufacturing," **1997 IEEE International Symposium on Semiconductor Manufacturing Conference Proceedings**, (October), pp. 9-13.
- 1997 "Can the Telecom Equipment Industry Afford Accelerating Technical Advance?" (with D. M. O'Brien), **Telecommunications Policy**, Vol. 21, No. 1, (October), pp. 697-707.
- 1997 **Strategic Implications of Supply Structure Adjustments in the Semiconductor Industry: A White Paper**, Technology Transfer Paper #96123212A-TR, SEMATECH, (February).
- 1996 "Exploring a Decade of Strategic Alliance Activity in the Telecommunications Industry, 1984-94," (with D. O'Brien) **Proceedings of the International Telecommunications Society, 11th Biennial Conference**, (June) (www.analysys.com/publish/its/).
- 1996 "Evolving Complexity and Cost Dynamics in the Semiconductor Industry," **IEEE Transactions on Semiconductor Manufacturing**, Vol, 9, No. 3, (August), pp. 294-302.
- 1996 "Global Credentials, Immigration, and Metro-Regional Economic Performance," (with S. R. Nivin), **Urban Geography**, Vol. 17, No. 1, pp. 23-44.

- 1995 "Affordability Concerns in Advanced Semiconductor Manufacturing: The Nature of Industrial Linkage," IEEE/UCS/SEMI, (with S. Brown), ***Proceedings of the International Symposium on Semiconductor Manufacturing '95***, pp. 1-4.
- 1995 ***Time-Based Competition: Evaluating Time-to-Market as a Future Factory Manufacturing Concept***, SEMATECH, Technology Transfer 95012673A-XFR, (February).
- 1995 "Evaluating Time-Based Competition in the U.S. Semiconductor Industry" in ***Industrial Engineering Research Conference Proceedings***, pp. 102-12.
- 1994 "Revitalizing Our Cities or Restoring Ties to Them? Redirecting the Debate," ***Journal of Law Reform***, University of Michigan School of Law, Vol. 27, Issues 3&4, (Spring and Summer), pp. 813-75.
- 1994 "Regional Economic Impacts of Federal R&D by Funding Source and Performer Type," (with Si-gyoung Lee), ***Regional Studies***, Vol. 28, No. 6, (October), pp. 619-32.
- 1993 "Cities and Beyond: A New Look at the Nation's Urban Economy," (with J. Rees), Chapter 2 in J. Sommer and D.A. Hicks, ***Rediscovering Urban America: Perspectives on the 1980s***, Office of Policy Development and Research, DHUD, Washington, DC, (January).
- 1992 "Regional Infrastructures for Innovation," ***Horizon***, Vol. III, University of Texas at Dallas.
- 1992 "Plant Closures and the Changing U.S. Industrial Base, in J. Lynch, (Ed.) ***Plant Closures and Community Recovery***, National Council on Urban Economic Development (CUED), Washington, DC.
- 1992 Reprinted from ***State of the Region 1992***, "Beneath the Surface and Beyond the Dimensions of Dallas Area Economic Development," The Bruton Center for Development Studies, University of Texas at Dallas, Chapter 2.
- 1991 "New Dimensions of Dallas Area Economic Development," ***The Survey of Regional Literature***, No. 19, (September), pp. 11-24.
- 1991 "Tracking Economic Turnover and Adjustment: Vertical Development Accounting," ***Economic Development Commentary***, National Council for Urban Economic Development, Washington, DC, Vol. 15, No. 2, (Summer), pp. 23-29.

- 1987 "Urban Policy in the U.S.: Introduction," *Urban Studies*, Vol. 24, (December), pp. 439-446.
- 1987 "Geo-Industrial Shifts in Advanced Metropolitan Economies," in *Urban Studies*, Vol. 24, (December), pp. 460-79.
- 1987 "Advanced Industrial Development," in A. Champagne, et al., (Eds.), *Texas at the Crossroads*, Texas A&M Press.
- 1987 "Implications of the Diffusion of Information Technology on Trade in the Services," G. Faulhaber, E. Noam and R. Tassej, *Services in Transition: The Impact of Information Technology on the Service Sector*, Ballinger, (Cambridge, MA), pp. 98-105.
- 1985 "Industrial Renewal through Technology Upgrading in the U.S. Metalworking Industry," in J. Rees (Ed.), *Technology, Regions and Policy*, Rowman and Allanheld, (Totowa, NJ).
- 1985 "New Technology in the United States' Machinery Industry: Trends and Implications" in A. T. Thwaites and R. P. Oakey, *The Regional Economic Impact of Technological Change*, F. Pinter, (London).
- 1983 "The Shifting Role of Property Tax in a New Industrial Era," in C. Lowell Harris (Ed.), *The Property Tax and Local Finance*, Vol. 35, No. 1, pp. 208-221, Academy of Political Science.
- 1983 "Urban and Economic Adjustment to the Post-Industrial Era." In G. Gappert and R. Knight (eds.) *Cities in the 21st Century*, Beverley Hills, CA: Sage.
- 1982 "Texas: Looking Ahead to the Year 2000," *Planning*, American Planning Association (March).
- 1982 "The Rise and Fall of Regional Policy in the United States," *Canadian Journal of Regional Science*, Vol. V, No. 2, (Autumn).
- 1982 "'Plastic' Land in the Post-Industrial Era," *Cato Journal*, Vol. 2, No. 2, (Fall).
- 1982 "National Urban Land Policy: Facing the Inevitability City and Regional Evolution," *Urban Law and Policy*, Vol. 5.
- 1983 Reprinted in George Lefcoe, (Ed.), *Urban Land Policy for the Reagan Years: The Message for State and Local Governments*, Lexington.

- 1981 "Perspectives on Urban America and Key Policy Issues for the Eighties," (*from Urban America in the Eighties: Perspectives and Prospects*), in Irving L. Horowitz, *Policy Studies Review Annual #5*, Sage.
- 1981 "Monitoring Shift Patterns in Municipal Service Outcomes Over Time," in Richard C. Rich (Ed.), *Analyzing Inequality in Urban Services*, Lexington Press.

Public Policy Research Analysis and Reports

- 1995 "Strategic Alliance Activity in the Semiconductor Industry, 1984-94," Bruton Center for Development Studies, (September).
- 1991 "Benchmarking Dallas-Area Economic Development: A Comparative Perspective," Bruton Center for Development Studies, (Spring).
- 1989 "Workforce Skills and Competencies: The Importance of Human Capital Assets and Investments to the Development of the Texas and Dallas/Fort Worth Metroplex Economies," (July).
- 1989 "Quantifying the Impacts of Losses of Specific Production Capabilities to the Nation's Industrial Base," Paper commissioned by National Center for Manufacturing Sciences (NCMS) for use in hearings before a series of U.S. Congressional committees, (April).
- 1989 "The Regenerating Economy: Job Creation and Destruction in Texas and the D/FW Metroplex," North Texas Commission, December 1988. (Subsequent draft appeared as *The Economic "Churn" in the Greater Dallas Regional and the City of Dallas Economies, 1986-1988*, Bruton Center for Development Studies, UT-Dallas, (November).
- 1988 "Innovation and Tomorrow's Economy: Regional Recipes for Economic Growth," Vol. 4, Regional Technology Program, North Texas Commission, (September).
- 1988 "Industrial Base Redefined: The Role of Advanced Services," Vol. 3, Regional Technology Program, North Texas Commission, (January).
- 1987 "Advanced Manufacturing in the Southwest: A Second Look," Vol. 2, Regional Technology Program, North Texas Commission, (March).
- 1986 "Economic Growth and Basic Research, It's Academic -And So Much More," Vol. 1, Regional Technology Program, North Texas Commission, (July).

- 1986 "A Strategic Assessment of U.S. Electronics-Based Industrial Growth and Development: A Preliminary Analysis" Center for Applied Research, UT-D, (Spring).
- 1985 "The High-Technology Sector: Growth and Development in the Dallas-Fort Worth Regional Economy, 1964-84," (with W. H. Stolberg), Center for Applied Research, UT-D, (October).
- 1984 "Computer Software and Data Processing Services: Development Characteristics of a High-Technology Service Industry in Texas," (with C. Z. Pann) Governor's Office of Economic Development and Texas Computer Industry Council, (Austin, TX), (July).
- 1983 "The City of Dallas as a 'Textured' Business Climate: Establishment and Employment Expansion and Contraction Between 1977 and 1982," (with J.H. James), Department of Planning and Development, City of Dallas, Center for Policy Studies, UT-D, (September).
- 1979 "Public and Private Sector Service Provision: An Alliance for the Future," *in Issues and Alternatives: A Guide for the Policy Maker*, National Endowment for the Humanities, Public Interest Information Network, City of Dallas.

U.S. Congressional Testimony

- 1981 Invited oral testimony. ***The 1981 Economic Report of the President***. Hearings before the Joint Economic Committee (JEC), Ninety-seventh Congress, Washington, D.C.
- 1981 Invited oral testimony. ***Intergovernmental Relations in the U.S.*** Hearings before the Subcommittee on Inter-governmental Relations of the Committee on Governmental Affairs of the U.S. Senate, Ninety-seventh Congress, Washington, D.C.
- 1981 Invited written testimony. ***The Administration's 1982 National Urban Policy Report***. Hearings before the Joint Economic Committee (JEC), Ninety-seventh Congress (Second Session), Washington, D.C.

Submitted Manuscripts

"Market Entry and Market Value: Linking Biotechnology Innovation Dynamics to Value Creation" (with Lynn Hung). ***Business Ventures*** (R&R)

Major National/International Conference Presentations and Keynote Addresses

2011-2015

- PRESENTER, "Demand Pull: Issues in the Emerging 'Molecular Era Economy'," 2011 Technology Transfer Society (T2S), Augsburg, Germany, September, 25-27, Germany.
- PRESENTER, "Accelerating the Adoption of Precision Materials: What Will It Take?" IC4N Conference, Crete, Greece, June 25-27, 2011.

2006-2010

- PRESENTER, "A Nanoscience Innovation Infrastructure for the Emerging "Molecular-Era Economy," (with J.R. Maly), 2nd IC4N Conference, Rhodes, Greece, June 30, 2009.
- PRESENTER, "**Electronic Packaging for Medical Devices**," with D. Hayes, L. Bagen, and D. Silva, 4th International Conference on Device Packaging, International Microelectronics and Packaging Society (IMAPS), Scottsdale/Fountain Hills, AZ, March 18, 2008.
- PRESENTER, "**Unlocking Value in the 'Adjacent Possible': Introducing the NanoMaterials Design and Commercialization Center at Alliance**" Technology Transfer Society Annual Meeting, Nanoscale Science and Engineering, University Of Albany, October 17, 2008.
- INVITED PRESENTATION: "**Value Creation in the 'Molecular-Era Economy': A Closer Look**," NanoTX '08, Dallas, TX October 3, 2008.
- INVITED KEYNOTE LECTURE: "**Anticipating the 'Molecular Era' Economy: Value Creation at the Bottom**," CIRCA 07-Convergence of International Research and Commercialization, College of Nanoscale Science and Engineering, SUNY-Albany. May 25, 2007.
- INVITED PRESENTATION: "**Anticipating the 'Molecular-Era' Economy: Commercialization Roadmaps and Models**" NanoTX '07, October 3, 2007.
- PRESENTER, "The Impact of R&D Expenditures on New Firm Formation and Regional Economic Growth," (with V. Sutaria), Congress of the European Regional Science Association (ERSA), Jyväskylä, Finland, August 27-30, 2003.

2005-2000

- INVITED LECTURE, *Beyond There Be Dragons....: Are Shifting Strategic and Financial Advantage Potential Showstoppers?* Albany Symposium on Global Nanotechnology, Lake George, NY, September 11, 2002.
- INVITED LECTURE, *Is the Golden Age of the Semiconductor Industry Coming to an End?* Albany Symposium on Global Semiconductor Issues Lake George, NY, September 11, 2001.

1996-2000

- “Time Wars: Is There a Financial Undertow from Accelerating Technical Advance?”, Sigma Xi Annual Forum, Crystal City, VA, November, 1997.
- Twelfth Biennial Conference of the International Telecommunications Society (ITS) Conference, “Technical Innovation and Endogenous Adjustment in the Telecommunications Industry,” Stockholm, Sweden, June 21-24, 1998. Web Location: <http://www.its98.org/conference/library/papers/781.doc>
- Invited General Session Address, 6th International Symposium on Semiconductor Manufacturing (ISSM 97, San Francisco, CA, “Deep Industrial Dynamics Shaping Next-Generation Semiconductor Manufacturing,” October 8, 1997.
- 24th Annual Conference of the European Association for Research in Industrial Economics (EARIE), “Vertical Disintegration and Endogenous Adjustment in the Semiconductor Manufacturing Industry,” Leuven, Belgium, September 1997.
- D.A. Hicks and D. M. O’Brien, “Order Amid Complexity: Patterned Investment Returns to Rapid Technical Advance,” 24th Annual Conference of the European Association for Research in Industrial Economics (EARIE), Leuven, Belgium, September 1997.
- ITS European Regional Conference, “Can Telecommunications Firms Afford Technology Leadership?” (with D.M. O’Brien), Leuven, Belgium, August 1997.
- 37th European Congress, Regional Science Association, 1) “Spatial Filieres and Integrality in the Emerging Photonics Industry,” (with D. M. O’Brien; 2) “Localized Economic Returns to IT Infrastructure Investments”; and 3) “Innovation Potential in the U.S. Machine Tool Industry” (with S. R. Nivin), Rome, Italy, August, 1997.
- 5th Annual Chaos in Manufacturing Conference, Santa Fe, NM, April 1997.
- “Marketing Graduate Students In and Out of Academia,” SSGSA, April 26, 1996.

- “Exploring a Decade of Telecommunications Industry Strategic Alliance Activity, 1984-1994,” (with D. M. O’Brien), Paper presented at Eleventh Biennial Conference, International Telecommunications Society, June 16-19, 1996, Seville, Spain.
- “International Telecommunications: Analysis and Interpretations in the NAFTA Framework,” Third Annual Fall Seminar on the North American Free Trade Agreement, Dean International. November 14, 1996.

1990-1995

- “Spillover and Appropriation: Regional Economic Returns to I-T Investments and Endowments” (with S. Nivin) Paper presented at 1) International Telecommunications Society (ITS) Conference (Sept. 1-3) and 2) European Association for Research in Industrial Economics (EARIE) Conference (Sept. 3-6), 1995, Juan les Pins (Nice), France.
- “Benchmarking Time-Based Competition,” (with S. Brown) Paper presented at TIMS XXXIII (The Institute for Operations Research and the Management Sciences) International Meeting, June 25-28, Singapore.
- “The Link between Environmental Concerns, Regional Urban Systems, and International Competitiveness, Urban Land Institute 1995 Spring Meeting, May 10-13, 1995, San Antonio, TX.
- “Affordability Concerns in Advanced Semiconductor Manufacturing: The Nature of Industrial Linkage,” Fourth International Symposium on Semiconductor Manufacturing (ISSM), Sept. 17-19, 1995, Austin, TX.
- “Evaluating Time-Based Competition in the U.S. Semiconductor Industry,” Fourth Annual Industrial Engineering Research Conference (IERC), May 24-25, Nashville, TN.
- Chair, Session on Geographical Contexts for Entrepreneurship, North American Regional Science Association Annual Meetings, October, 1990, Boston, MA.

1986-1989

- "A National Urban Policy: Should We Try Again?", Special American Planning Association Symposium on U.S. National Urban Policy, American Planning Association (APA), San Antonio, TX, May, 1988.
- Regional Development Conference, Wharton Center for Applied Research, University of Pennsylvania, Philadelphia, PA, April, 1988.
- World Congress on Land Policy, London, England, July, 1986.

- International Information Industry Congress (IIIC) Dallas, TX, May, 1986.

1980-1985

- "Industrial Renewal Through Technology Upgrading in the U.S. Metalworking Industry," Maxwell School's 60th Anniversary Symposium on Technology, Policy and Regional Change, Syracuse University, Syracuse, NY, April 2-3, 1984.
- "New Technology in the American Machinery Industry: Trends and Implications," (with John Rees and Ronald Briggs), Regional Science Association, Chicago, IL, November, 1983.
- "Urban Development Policies and Land Use Patterns for a New Urban America," ***Urban Land Policies for the Reagan Years*** Conference, University of Southern California Law Center and Lincoln Institute of Land Policy, Los Angeles, CA, February, 1982.
- "Critical Issues in National Urban Policy," National Planning Conference, American Planning Association, Dallas, TX, May, 1982.
- "Regional Policy in North America: A Comparative Reappraisal," Regional Science Association, Montreal, Canada, November, 1981.

1976-1979

- "Public Service Imbalances in Metropolitan Systems: A Focus on Equity and Regional Change," (Panelist), First Annual Symposium on Southern Cities, Richardson, TX, February, 1979.
- "Fine-Tuning Municipal Services Delivery Systems for the Urban Elderly: A Challenge to City and Regional Planners," Xlth International Congress of Gerontology, Tokyo, Japan, August, 1978.
- "Monitoring Patterns of Social Change by Merging Cohort Analysis with Compositional Analysis," American Sociological Association, San Francisco, CA, September, 1978.
- "Aging and the Aged: Comparative Perspectives on Policy and Administration," (Chair and Discussant), Annual Conference on Public Administration, American Society for Public Administration, Phoenix, AZ, April, 1978.
- "Is Quality Research Possible in an Action-Oriented Setting?", Gerontological Society, San Francisco, CA, November, 1977.
-

"Patterns of Social Change and Adaptation in Total Institutions," (with G. P. Alpert), Society for the Study of Social Problems, Chicago, IL, August, 1977.

Professional Activities

Community Service

- Board of Directors, BioDFW. □ Board of Economists, Dallas Regional Chamber □ Leadership North Texas, Steering Team, North Texas Commission/North Texas Future Fund (NTC/NTFF) □ UT-D Representative, Texas/Israel Chamber of Commerce
- Advisor, SAP/UTD Forum on Barriers to RFID Adoption □ Advisor, Unisys Global/AIM Global -Center for Ethical Identity Assurance (CEIA) □ Advisor, Assisted development of an MOU between UT-Dallas and RioTinto to establish an R&D effort on campus; also assisted in enabling RioTinto to apply for an Emerging Technology Fund (ETF) collaborative research grant
- Member, *Intelligent Medical Systems* Red Team (BioDFW)
- Advisor, Texas Emerging Technology Fund (ETF), Office of the Governor.
- Member, Richardson Economic Development Technology Advisory Board (REDTAB)
- Member, CapRock BioFuels – Board of Directors
- Member, Metroplex Technology Business Council (MTBC) Innovation Task Force
- Advisor/Consultant, North Texas Future Fund, North Texas Commission
- Member, North Texas Commission (NTC) Literacy Project Board
- Member, Biotechnology Advisory Board, Collin County Community College

University

- Member, Texas Nanoelectronics Alliance Initiative (TxAN) Working Group
- Member, UT System/TAMU System Alliance Cmte. at TAM-Dallas
- Member, UT-D/Technion Alliance Committee (TAC)
- Member, Economic Development and Commercialization Cmte. (UT-D Development Board)

- Member, ECS Industrial Advisory Board (IAB) – Technology Acceleration and Commercialization
- Associate Director, Enterprise 2020 (SOM)
- Founding Member, Executive Board, Institute for Innovation and Entrepreneurship (IIE) (SOM)
- Founding Advisory Board Member, Center for Intelligent Supply Networks (C4ISN)
- Advisor, SAP/UTD Forum on Barriers to RFID Adoption
- Advisor, Unisys Global/AIM Global -Center for Ethical Identity Assurance (CEIA)

Invited Talks/Presentations

2011-2015

- INVITED PRESENTATION, “Advanced Materials Training to Enable North Texas’ Emerging ADAM Sector Competitiveness,” Board of Directors, Workforce Solutions of North Central Texas, North Central Texas Council of Governments (NCTCOG), Arlington, Texas, July 26, 2011.
- INVITED PRESENTATION, “Advanced Materials Manufacturing: Workforce Solutions for An Advanced Industrial Era,” North Texas Task Force on Advanced Materials, Arlington, Texas, August 4, 2011.

2006-2010

- INVITED PRESENTER & PANEL MEMBER – Technology Acceleration a Commercialization
- April 21st Presentation, External Research Advisory Board, April 25th
- INVITED PRESENTER -NanoTX 07 Conference, October 3rd, 2007.
- INVITED PRESENTER -NanoTX 06 Conference, September 28th, 2006.
- PRESENTER -North Texas Regional Mobility Hearing, Presentation of Final Results, October 6th □ ORGANIZER/PRESENTER -ECS NanoMaterials Industrial Cluster Initiative Briefing, October 12th

- INVITED PRESENTER -Governor's Office, NanoMaterials Industrial Cluster Initiative Briefing , October 13th
- INVITED PRESENTER -InSource Presentation, November 7th
- INVITED PRESENTER -Baylor Health Care System Leadership Retreat, November 10th

2001-2005

- Speaker, Distinguished Lecturer Series, EC&S, August, 26, 2005. □ Keynote Speaker, BioDFW Forum, UT Southwestern, May 19, 2005.
- Keynote Speaker, IEEE Annual Meeting, Investing in Technology, September 9, 2005
- Speaker and Moderator, 7th Annual Economic Forum, Greater Dallas Chamber Forum
- Moderator, MIT CEO Forum, May 25, 2005.
- Invited Speaker, BioDFW Planning Forum, November 7, 2005
- Speaker, MTBC 1st Friday Management in High-Tech, April 1, 2005.
- Speaker, North Texas Future Fund, June 23, 2005.
- Speaker, MTBC CEO Breakfast Forum, March 31, 2005.
- "Preparing for a Post Sun-Belt Future." North Texas Commission Member Luncheon, April 2003.
- "Preparing for a Post Sun-Belt Future." North Texas Future Fund Luncheon, April 16, 2003.
- "The Evolving DFW Economy: Implications for Entrepreneurial Activity" STARTech Stakeholder Advisory Board, April 28, 2003.
- "The Economy of North Texas and Its Effect on Foreign Trade," Dallas/Fort Worth Consular Corps, May 15, 2003.
- "The Changing Economic Landscape of the Region, Dallas Economists' Club, May 20, 2003.
- Presentation, Texas Health Resources Strategic Planning Board, Arlington, TX, June 10, 2003.

- Presentations, STARTech CIO Dinners, August 25th and November 10, 2003.
- “Beyond the Sun Belt Era: Something Borrowed...Something New,” McKinney Chamber of Commerce, December 12, 2003.
- “Strategic Issues for Emerging Technology Companies: The Evolving DFW Economy”, Haynes & Boone LLP., December 9, 2003.
- INVITED SPEAKER, Park Cities Exchange Club, April 27th
- INVITED SPEAKER, INVEST SW Annual Meeting (September).
- INVITED SPEAKER, 6th Annual Economic Forum, Greater Dallas Chamber
- INVITED PARTICIPANT, National Association of Business Economists (NABE) – Teleconference Webcast Presentations (August; October).
- INVITED SPEAKER, Dallas Economists Club, (August).
- INVITED SPEAKER, Regional Leadership Luncheon – McKinney (April).
- Baylor Health Care System Strategic Leadership Council, “Health Care Delivery in the Evolving DFW Metroplex Economy”
- PANEL CHAIR and SPEAKER: “Entrepreneurship in a Global Economy” MIT Enterprise Forum, December 12, 2002.
- INVITED SPEAKER, “Investment in Science and Technology: How Can Texas Do Better”, Urban Texas, Inc. November 21, 2002, Austin, TX.
- Panel Chair, Science and the Innovation System, APPAM Annual Research Conference (November, 2002).
- INVITED SPEAKER, Dallas Economists Club, October 2002.
- Member, Richardson Economic Development Technology Advisory Board
- Panel Chair and Presenter, European Applied Business Research (EABR) Conference, Rothenburg, Germany. “Business Base Churn Dynamics and Regional Economic Performance,” (with Y. Lee). June 2002. [Best Paper Award]

- INVITED SPEAKER, San Antonio Business and Economic Society, April 2002.
- MEMBER, Ericsson University Steering Board (Ericsson, Inc) (since 2001).
- FOUNDING MEMBER, Center for Intelligent Supply Networks (C4ISN), UT-Dallas, 2001.
- MEMBER, Board of Economists, *Dallas Morning News* (since 2001)
- MEMBER, Greater Dallas Chamber Economists Council (since 2003).
- INVITED SPEAKER, Richardson Chamber of Commerce, January 2002.
- INVITED SPEAKER, NCTCOG Workforce Development Board, January 2002.

1996-2000

- INVITED LECTURES, Chalmers University (School of Technology Management and Economics), Gothenburg, Sweden, March 2000.
- INVITED ATTENDEE, “California in the 21st Century: State of the State Conference” sponsored by the Milken Institute, representing IC² (University of Texas – Austin, November 1999).
- INVITED PARTICIPANT, Semiconductor Research Corporation (SRC) drafting of the ***Semiconductor Industry Technology Roadmap – 2000.***
- INVITED PARTICIPANT, Semiconductor Research Corporation (SRC) drafting of the ***Semiconductor Industry Technology Roadmap – 1999.***
- ADVISOR/REVIEWER, ***The State New Economy Index: Benchmarking Economic Transformation in the States***, Progressive Policy Institute, Washington, DC., 1999.
- Invitation to address North American Product Review Executive Group, Ericsson Inc., November 15, 1999.
- Invitation to address First Friday Business Impact Luncheon, Richardson Chamber of Commerce, October 2, 1998.

- INVITED PRESENTATION, 5th Annual Chaos in Manufacturing Conference, Santa Fe, NM, April 1997.
- FOUNDING MEMBER and STEERING COMMITTEE MEMBER, Dallas Telecommunications Roundtable, in conjunction with Fulbright & Jaworski, Dallas, TX, 1995 to present.

1990-1995

- PROPOSAL REVIEWER, Alfred P. Sloan Foundation, New York, NY., 1995
- INVITED PRESENTATION, National Association of Business Economists (NABE) Annual Conference, Dallas, TX, September, 1992.
- INVITED MEMBER, Selection Committee, 1992 High-Tech Entrepreneur of the Year Award (State of Texas), KPMG-Peat Marwick, 1992. (and 1991).
- INVITED PRESENTATION, Swiss Academy of Sciences and the Tissot Economic Foundation, Regional Innovation and Human Development, Le Locle, Switzerland, October, 1991.
- INVITED BOARD BRIEFING, National Center for Manufacturing Sciences (Ann Arbor, MI), "Trends Shaping U.S. Manufacturing," July, 1991.
- INVITED MEMBER, Advisory Board, Regional Impacts of Defense Spending, Center for the New West, Denver, CO (1990).
- APPOINTED, ADVISORY PANEL, Technology and Economic Conversion Panel, U.S. Office of Technology Assessment (OTA), U.S. Congress, (*After the Cold War*) 1990-93.
- INVITED EXTERNAL REVIEWER, "Assessing the Impact of the Microelectronics Center of North Carolina (MCNC) on the Industrial and Economic Development of North Carolina," May, 1990.
- INVITED PRESENTATION, Defense Spending Impacts Roundtable, Center for New West, Denver, CO, December, 1990.
- INVITED PAPER/PRESENTATION, Infrastructures for Innovation and Civilian Technology Transfer," National Academy of Engineering, Committee on Science, Engineering, and Public Policy (COSEPUP), Washington, DC, February, 1990.
- INVITED PRESENTATION, "Macro-Investment Strategies in Infrastructures for Innovation," Royal Swedish Academy of Engineering and OECD, Stockholm, Sweden, January, 1990.

1985-1989

- INVITED DELEGATE, China Institute for Industrial Economics, Beijing, PRC, May-June, 1989.
- INVITED KEYNOTE ADDRESS, Metro Toronto High-Tech Symposium. Sponsored by the Science Council of Canada and the Regional Government of Metro Toronto, Toronto, Ontario, May, 1989.
- INVITED KEYNOTE SPEAKER, National Alliance for Business (NAB) Annual Conference, New Orleans, June, 1989.
- INVITED BOARD BRIEFING, National Center for Manufacturing Sciences (Ann Arbor, MI), "Trends Shaping U.S. Manufacturing," January, 1989.
- INVITED PRESENTER, Sixth International Conference on Technology and Education, (Tandy Corp.), Orlando, FL, March, 1989.
- INVITED INTERVIEW, WorldNet satellite teleconference with journalists and government officials in South America interested in technology and society issues, USIA, Washington, DC, June, 1989.
- MEMBER, Review Panel, Office of Technology Assessment (OTA), U.S. Congress Special Report, **Commercializing High-Temperature Superconductivity**, March, 1988.
- INVITED BRIEFING, Office of the Deputy Assistant Secretary for Production Support, Department of Defense, Washington, DC, ("Defense Industrial Base Capacity: A Second Look"); 1988.
- MEMBER, UT System Committee, Local Economic Impacts of University Spending, 1988.
- MEMBER, Biotechnology Advisory Committee, Center for Occupational Research and Development, Austin, TX, 1988.

- INVITED SPEAKER, Texas Lyceum, "Impact of Defense R&D on the Texas Economy," September, 1987.
- INVITED PROJECT TEAM MEMBER, Computer-Integrated Manufacturing (CIM) Workshop, International Institute of Applied Systems Analysis (Laxenburg, Austria), Helsinki, Finland, July, 1987.
- INVITED BRIEFING, Office of the Undersecretary, Office of Productivity, Technology, and Innovation, U.S. Department of Commerce, "Research Environments and the National Industrial Base," March, 1987.
- INVITED BRIEFING, Director of Business Development, U.S. Small Business Administration, "Technology-Intensive Industry: Regional Development Dynamics," October, 1987.
- INVITED BRIEFING, Office of the Assistant Secretary of Defense, U.S. Department of Defense, "A Regional View of the Nation's Industrial Base Initiative," December, 1987.
- INVITED CONSULTANT, United States Information Agency (USIA), Economics, Science and Technology Division, lectures and consultation with corporate and government officials in Brazil and Argentina, August, 1987.
- INVITED KEYNOTE SPEAKER, Austrian Education Ministry, Lectures on "U.S. Issues: Technology, Economics, and the Environment," Vienna, Austria, 1986.
- INVITED KEYNOTE SPEAKER, Hamburg-Harborg Forum, Technical University of Hamburg-Harborg and City of Hamburg, West Germany, January, 1986.
- ADVISOR, Office of Business Development, U.S. Small Business Administration, Washington, DC, ("Exploring the Business Dynamics Shaping the Industry and Employment Basis of Region VI"), 1986.
- INVITED LECTURER: USICA, (Mexico) Lectures at University of Las Americas, Department of Science and Technology: (Puebla) Institute of Innovation, Information, and Technology (Mexico City); Directorate General of Technology Transfer, Secretariat of Commerce and Industrial Development (Mexico City); Industrial Club (Guadalajara); Secretariat of Commerce and Industrial Development (Monterrey), 1986.
- ADVISORY COMMITTEE, Texas Research Strategies Committee, Houston Area Research Center (The Woodlands, TX), 1986.
- PRESENTER, Engineering Foundation, Henniker, NH, July, 1986.

1980-1985

- INVITED LECTURER, United States Information Agency (SIA), Economics, Science and Technology Division. Programs for and consultation with Giovanni Agnelli (Fiat) Foundation (Turin); Lombardy Regional Research Institute (Milan); Ligurian Regional Development Agency (Genoa); University of Cagliari (Sardinia); U.S. Embassy (Naples); Austrian Institute for Economic Research and Economic University of Vienna, (Vienna); Technical University of Hamburg-Harborg (Hamburg); Federal Institute for Regional Research and Planning (Bonn Bad Godesburg); Lower Saxony Ministry of Economics (Hannover); German/American Institute (Heidelberg); University of Nuremberg (Nuremberg), 1985.
- U.S. DELEGATE, Joint Conference (American Enterprise Institute for Public Policy Research and Konrad Adenauer Stiftung) "Technological Development, Causes and Consequences: United States and West Germany," Bonn, West Germany, November 26-27, 1984.
- CO-INVESTIGATOR, State Infrastructure Needs Study, (with W. Claggett, S. D. Johnston and D. Nuchols), Offices of the Governor and Lieutenant Governor, State of Texas. Contribution to a nationwide study of infrastructure need coordinated by the Joint Economic Committee, U.S. Congress, 1982-83.
- REVIEWER, National Committee on Urban Policy, National Research Council, National Academy of Sciences, Washington, DC, 1982-83.
- INVITED PARTICIPANT, Academy of Political Science, Symposium on Local Finance and Property Tax Policy, Cambridge MA, 1982.
- INVITED SPEAKER, University of Southern California Law Center for Lincoln Institute of Land Policy Conference on "Urban Land Policies for the Reagan Years," Los Angeles, CA, 1982.
- INVITED PAPER, ("Social Policy in the Post-Industrial Era"). Prepared at the request of the American Public Welfare Association, Washington, DC, 1982.
- CONFERENCE PARTICIPANT, Political Economy Research Institute (PERI), Inaugural Conference of the Post-Interventionist City; Panel: "Structure of Urban Environments: Myth and Reality," Santa Fe, NM, 1982.
- KEYNOTE SPEAKER, City of South Bend Plenary Community Conference ("Seeking an Agenda for the Eighties"), South Bend, IN, 1982.

- INVITED PRINCIPAL SPEAKER, Institute for American Values Symposium, ("Competition and New Federalism"), Nichols College, Dudley, MA, 1982.
- INVITED CONSULTANT, Organization for Economic Cooperation and Development (OECD), Policy Project Group on Urban Growth and Decline, Urban Affairs Division, Environment Protectorate, Paris, France, 1981.
- COMMISSIONED BACKGROUND PAPER, Senator D. Durenberger (R-MN), Chair, Senate Subcommittee on Intergovernmental Relations, U.S. Senate; ("The Deconcentration and Transformation of Urban America"), 1981.
- INVITED PARTICIPANT, International Institute for Applied Systems Analysis (IIASA), International Conference on Urbanization and Development, Schloss, Laxenburg (Vienna), Austria, 1981.
- INVITED LECTURER, USICA, American Participant Abroad Program. Programs on urban policy and economic adjustment presented under the auspices of U.S. embassies in Tunis, Tunisia; Department of Architecture, University of Damascus, Damascus, Syria; Ministry of Housing, Damascus, Syria; German Institute of Urban Studies and Technical University, Berlin, Germany; Office of Housing, Hamburg, Germany, 1981.
- INVITED SPEAKER, National Round Table Conference, American Public Welfare Conference, San Francisco, CA, 1981.
- INVITED CONFERENCE PARTICIPANT, Conoco Energy Forum (Conoco Oil Corporation), "Conflicts of U.S. Energy-Producing and Consuming Regions," Louisiana State University, Baton Rouge, LA, 1981.
- MODERATOR, S&H Foundation Lectureship Series, ("Prospects for the Cities: Issues for the Coming Decade"), Session: Interdependent Cities in a Metropolitan Area: Policy, Practice and Promotion," UT-Dallas, Richardson, TX, 1981.
- INVITED SPEAKER, Third International Conference on Urban Design, Galveston, TX, 1981.
- INVITED PRESENTATIONS, National Institute of Public Affairs, Washington, DC; Governor and Cabinet of New Jersey; Governor's Office, State of Florida; Subcommittee on Energy and Commerce, U.S. Congress; National Academy of Public Administration, Washington, DC; Universities of Pennsylvania, North Carolina at Chapel Hill, and Florida State University; Southern Growth Policies Board; Greater Atlanta Municipal Association; National League of Cities, Washington, DC; Metropolitan Affairs Council, Detroit, Michigan; Williams College (Office of Rep. Silvio O. Conte, MA); American Chamber of Commerce Executives, National, Tennessee; German Broadcasting Company, Washington, DC., 1981.

- CONFERENCE ORGANIZER, National Academy of Sciences Symposium ("Problems and Prospects for Urban America in the Eighties"), Washington, DC, June, 1980.

Journal Reviewer

- *Annals of Regional Science*
- *Urban Geography*
- *Government and Policy (Environment and Planning C)*
- *IEEE Transactions on Engineering Management*
- *IEEE Transactions on Semiconductor Manufacturing*
- *Regional Studies* □ *Political Research Quarterly*
- *International Journal of Operations and Production Management*

Electronic Media Reports

- Telecourse Interview, "Texas Politics and You," *Globalism & Texas*, Dallas County Community College District (DCCCD), Spring 1997.
- Guest and Consultant, *Weekend World*, British Broadcasting Company (BBC) television documentary on labor mobility in the United States, 1986.
- Creative Consultant, ***Beyond the Dream*** (3-hour special public service production on Dallas region metropolitan change), KXAS-TV (NBC) Action News. Aired: September 22, 1981. Awarded Best Documentary and Best Photographed for 1981, Texas Associated Press.

Public Service Consulting

- Planning Team, "2012 Aerospace and Aviation Manufacturing Summit, Embry-Riddle Aeronautics University, October 7-10, 2012, Fort Worth, Texas.
- Planning Team, Advanced Composites Materials Manufacturing Project Plan, 2011-12. North Texas Supply Chain Council.
- Consultant, Advanced Thermoplastics Manufacturing Proving Ground Planning Team, Lockheed Martin Aeronautics Skunkworks, Fort Worth, Texas.

- Invited Advisor/Reviewer, *Indicators for the New Economy*, Progressive Policy Institute, Washington, DC, 1998.
- Invited Reviewer for Alan S. Gregerman, *Entrepreneurial High-Growth Companies: A Framework for Thinking About the Federal Policy Role*, Congressional Research Service, The Library of Congress, Washington, DC, 1998.
- Infrastructure and Policy Development Task Force, Communications/ Information Group, North Texas Commission, 1996-Present.
- “A Comment on the Methodology and Conclusions”, for *Texas Enterprise Zones: Cost Benefit Analysis*, State Auditor’s Office, State of Texas, September 1994.
- Contributed to *Job Creation and the 7(a) Guaranteed Loan Program*. Report prepared by the Office of the Inspector General, U.S. Small Business Administration, November 1994.
- Contribution to report being prepared on U.S. industrial adjustment by the Energy, Transportation, and Infrastructure Division of the Office of Technology Assessment (OTA), U.S. Congress, October 1994. □ PROJECT DIRECTOR, **Economic Impacts of the Airport Development Plan: D/FW International Airport**; North Texas Commission and KPMG Peat Marwick, Airport Consulting Services, San Francisco, CA, 1988-89. □ PROJECT DIRECTOR/AUTHOR, "D/FW Metroplex Proposal Bid for U.S. Memories, (a proposed U.S. semiconductor consortium), Summer, 1989. □ INVITED SPEAKER, 6th Annual Mid-Cities Business Outlook Conference, Arlington, TX, January, 1989. □ INVITED TESTIMONY, Senate Special Advisory Committee on Bishop College, December, 1989.
- MEMBER, Economic Development Committee, Dallas Chamber of Commerce; 1985 - 1987.
- MEMBER, Human Resources Committee, Dallas Chamber of Commerce; 1983-1984.

Expert Witness Testimony

Expert witness testimony and background reports provided in court cases involving 1) health insurance reimbursement; 2) patterns of urban-industrial growth and economic development; 3) industrial impacts of technological change; and 4) patterns of residential settlement.

Book Reviews

Citations are available on request.

UNIVERSITY SERVICE

Doctoral Dissertation Advisor

I have served as Chair of the dissertation research for sixteen graduate students.

University Committees (selected)

- Institutional Review Board, UT-Dallas, 2001-2003
- University Information Resources Security Committee (1997-98; 1998-99)
- Committee on Distance Learning (1997-98; 1998-99)
- Faculty-Administration Steering Committee of the Cecil and Ida Green Center for the Study of Science and Society, 1997.
- Committee on Qualifications, 1995-97, 1991-93
- Strategic Planning Committee, 1995-96
- University Research Integrity Committee, 1995-Present
- Committee on Intellectual Property, Vice Chair, 1989-92
- Anson Clark Memorial Committee, 1991
- Faculty Standing and Conduct, 1991-92
- Faculty Handbook, 1989-90
- University Library Committee, Chair, 1985-86, 1986-87
- Committee on Planning and Effectiveness, Chair, 1986-87
- Academic Senate, 1986-87, 1985-86, 1981-82
- Academic Council, 1985-86
- Committee on Research, Chair, 1982-83
- Committee on Faculty Standing and Conduct, Chair, 1983-84
- UT-D Organized Research Committee, 1983
- Committee on Educational Policy, 1975-76.

In addition, I have served as chair and member of numerous dean and faculty search committees, ad hoc review committees, and school committees. Also, I have served as internship advisor for several graduate and undergraduate students.

Military Service

Lieutenant, USNR-R, Inactive Status	1975-Present
Naval Intelligence Command 607, U.S. Naval Reserve Raleigh, NC	1973-1975
Naval Reserve Research Company 6-6, Chapel Hill, NC	1972-1973

Lieutenant JG, Naval Academy Preparatory School (NAPS),
Bainbridge, MD (Active Duty) <http://usna.com/NAPS/tour/tourframe.html>;
<http://www.greensboro.com/usna/NAPS.pdf>

1971-1972

Commissioned, U.S. Navy, Newport, RI

1971

Updated: February 2012