

Curriculum Vita

Steven P. French, Ph.D., AICP

OFFICE: Center for Geographic Information Systems
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Dunwoody, Georgia 30338
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EDUCATION:

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|------|---------------------------------------|---------------------------------|
| 1971 | B.A. with Honors (Economics) | University of Virginia |
| 1973 | Master of Urban and Regional Planning | University of Colorado - Denver |
| 1980 | Ph.D. (City and Regional Planning) | University of North Carolina |

RESEARCH INTERESTS:

Geographic Information System Applications
Land Use Planning and Management
Earthquake and Flood Hazard Analysis and Mitigation
Urban Infrastructure Management

ACADEMIC HONORS:

Phi Beta Kappa
Honors Program in Economics, University of Virginia
Kenneth E. Grant Research Scholarship, Soil Conservation Society of America
Meritorious Performance and Professional Promise Award, Cal Poly State University
UPS Visiting Professor Fellowship in Resources Planning, Stanford University
Mid-Career Achievement Award, College of Architecture, Georgia Institute of Technology
Distinguished Professor, College of Architecture, Georgia Institute of Technology

PROFESSIONAL EXPERIENCE:

1996 - present Director - Center for Geographic Information Systems
and Professor of City and Regional Planning, Georgia Institute of Technology.

1992 - 1999 Professor and Director - City Planning Program, Georgia Institute of Technology.

1986-1991 Professor - Department of City and Regional Planning, California Polytechnic State
University, San Luis Obispo, California.

1987-1988 Visiting Professor of Resources Planning - Civil Engineering Department, Stanford
University.

1981-1986 Associate Professor - Department of City and Regional Planning, California Polytechnic
State University, San Luis Obispo, California.

1980-1981 Senior Research Associate - Rice University, Houston, Texas.

1975-1976 Land Use Administrator – Garfield County, Colorado

PUBLISHED ARTICLES AND PAPERS:

* denotes peer reviewed article

Gayle Houston, Christy Johnson, Steven P. French and Jesse Glasgow. 2004. "A Standardized Methodology for Siting Overhead Electric Transmission Lines." *Proceedings of the 8th International Symposium on Environmental Concerns in Rights-of-Way Management*, September 14-17, Saratoga Springs, New York.

Steven P. French, Lawrence D. Frank, Michael Dinan and James Chapman. 2003. "SMARTRAQ Regional Land Use Geodatabase – Development and Applications," *Proceedings of the Urban and Regional Information Systems Association*, October 12-16, Atlanta, Georgia.

*Arthur C. Nelson and Steven P. French. 2002. "Plan Quality and Mitigating Damage from Natural Disasters: A Case Study of the Northridge Earthquake." *Journal of the American Planning Association*. 68:2 (Spring).

*Raymond J. Burby with Timothy Beatley, Philip R. Berke, Robert E. Deyle, Steven P. French, David R. Godschalk, Edward J. Kaiser, Jack D. Kartez, Peter J. May, Robert Olshansky, Robert G. Patterson and Rutherford H. Platt. 1999. "Unleashing the Power of Planning to Create Disaster-Resistant Communities." *Journal of the American Planning Association*. 65:3 (Summer).

Steven P. French and William H. Bachman. 1999. "Transportation Facilities in Mid-America." *Proceedings of the 5th U.S. Conference on Lifeline Earthquake Engineering*, August 12-14. Seattle.

*Raymond J. Burby, Steven P. French and Arthur C. Nelson. 1998. "Plans, Code Enforcement, and Damage Reduction: Evidence from the Northridge Earthquake." *Earthquake Spectra* 14:1 (February).

Steven P. French and Arthur C. Nelson. 1997. "Land Use Planning for Earthquake Hazard Mitigation: Lessons from Northridge." *Proceedings of the Northridge Earthquake Research Conference*. August 20-22. Los Angeles, California.

*Steven P. French and Mike E. Disher. 1997. "Atlanta and the Olympics: A One Year Retrospective." *Journal of the American Planning Association*. 63:3 (Summer).

*Steven P. French and Xudong Jia. 1997. "Estimating Social and Economic Impacts of Infrastructure Damage with GIS." *Journal of the Urban and Regional System Association*. 9:1 (Spring).

Steven P. French and Amy E. Skiles. 1996. "Organizational Structures for GIS Implementation." *Annual Proceedings of the Urban and Regional Information Systems Association*, July 27- August 1. Salt Lake City, Utah.

Steven P. French and William J. Drummond. 1996. "The Rapidly Changing Technology of Planning." *Carolina Planning*. 21:1 (Spring).

*Steven P. French. 1995. "Damage to Urban Infrastructure and Other Public Property from the 1989 Loma Prieta (California) Earthquake." *DISASTERS: The Journal of Disaster Studies and Management* 19:1 (March).

*Philip R. Berke and Steven P. French. 1994. "The Influence of State Mandates on Local Plan Quality." *Journal of Planning Education and Research*. 13:4 (Summer).

*Steven P. French. 1994. "A Knowledge-Based System for Earthquake Risk Inventories." *Environment and Planning B*. Volume 21.

Raymond J. Burby, Philip R. Berke, Linda C. Dalton, John DeGrove, Steven P. French, Edward J. Kaiser, Peter May and Dale Roenigk. 1993. "State Planning Mandates: How Well Are They Working." *Land Use and Zoning Digest*.

*Steven P. French. 1993. "Public Property Damage and Emergency Response Costs: Comparing the Loma Prieta and Whittier Narrows Earthquakes." *Earthquake Spectra*, 9:1 (February).

Steven P. French. 1993. "Infrastructure Damage Modeling with GIS." in *Geographic Information Systems and Their Application to Geotechnical Earthquake Engineering Workshop Proceedings*. New York: American Society of Civil Engineers.

Steven P. French. 1992. "Reconciling Census and Tax Assessor Mapping Systems." *Annual Proceedings of the Urban and Regional Information Systems Association*. Washington, D.C.

Steven P. French. 1991. "A Knowledge-Based Approach to Using Existing Data for Seismic Risk Assessment." *Annual Proceedings of the Urban and Regional Information Systems Association*, August 11-15, San Francisco, California.

Steven P. French and Raymond K. Belknap. 1991. "Analyzing Rural Development Alternatives Using a Geographic Information System." *Annual Proceedings of the Urban and Regional Information Systems Association*, August 11-15, San Francisco, California.

Steven P. French. 1991. "The Utilization of Geographic Information Systems for Land Use Planning and Emergency Preparedness." *Disaster Management and Regional Development Planning with People's Participation*, United Nations Center for Regional Development, Nagoya, Japan.

*Steven P. French and Lyna L. Wiggins. 1990. "California Planning Agency Experiences with Automated Mapping and Geographic Information Systems," *Environment and Planning B*, 17:4.

*Lyna L. Wiggins and Steven P. French. 1990. "Desktop Mapping and GIS," *Journal of the American Planning Association*, 56: 3, (Summer).

*Steven P. French and Gary R. Rudholm. 1990. "Damage to Public Property in the Whittier Narrows Earthquake: Implications for Earthquake Insurance." *Earthquake Spectra*. 6:1 (February).

*Steven P. French and Lyna L. Wiggins. 1989. "Computer Adoption and Use in California Planning Agencies: Implications for Education," *Journal of Planning Education and Research*, 8:2 (Winter).

Steven P. French. 1988. "An Automated Lifeline Inventory for Earthquake Damage Modeling," *Proceedings of the 26th Annual Conference of the Urban and Regional Information Systems Association*, August 8-11, Los Angeles, California.

*Steven P. French and Mark S. Isaacson, "Applying Earthquake Risk Analysis Techniques to Land Use Planning," *Journal of the American Planning Association*, 50: 4, Autumn 1984.

Steven P. French, "Earthquake Information Needs of Local Governments" in *A Workshop on Evaluation of Regional and Urban Earthquake Hazards and Risk in Utah*." Open File Report 84-763, Reston, VA: U.S. Geological Survey, 1984.

Steven P. French and Ronald L. Wright, "Local Implementation of Coastal Zone Management in California," in *Coastal Zone '83*, Orville Magoon, ed., New York: American Society of Civil Engineers.

*Steven P. French. 1981. "An Approach to Environmental Impact Assessment," *Journal of Soil and Water Conservation*, Volume 36, No. 5, September-October.

*Raymond J. Burby and Steven P. French. 1981. "Coping with Floods: The Land Use Management Paradox," *Journal of the American Planning Association*, 47: 3 (July).

*Raymond J. Burby and Steven P. French. 1980. "The U.S. Experience in Managing Flood Plain Land Use" in *DISASTERS: The International Journal of Disaster Studies and Practice*, 4: 4, (December).

Steven P. French and Raymond J. Burby. 1980. "Current Practice in Managing Coastal Flood Hazards," in *Coastal Zone '80*, Billy L. Edge, ed., New York: American Society of Civil Engineers.

BOOKS:

Co-author with Raymond J. Burby and Peter J. May. 1997. *Making Governments Plan: State Experiments in Managing Land Use*. Baltimore: Johns Hopkins Press.

Co-author with Raymond J. Burby et. al. 1991. *Sharing Environmental Risks: How to Control Governments' Losses in Natural Disasters*. Boulder, Colorado: Westview Press.

Lyna L. Wiggins and Steven P. French. 1991. *GIS: Assessing Your Needs and Choosing a System*, PAS Report 433. Chicago: American Planning Association.

Raymond J. Burby and Steven P. French. 1985. *Flood Plain Land Use Management: A National Assessment*. Boulder, Colorado: Westview Press.

Steven P. French. 1980. *Flood Plain Land Use Management: An Analysis of Context, Programs and Impacts*. Chapel Hill, NC: Ph.D. dissertation, University of North Carolina.

BOOK CHAPTERS:

Robert E. Deyle, Steven P. French, Robert B. Olshansky and Robert G., Peterson. 1998. "Hazard Assessment: The Factual Basis for Planning and Mitigation" in *Cooperating with Nature: Confronting Natural Hazards with Land Use Planning for Sustainable Communities*. Raymond J. Burby, ed. Washington, D.C.: John Henry/National Academy Press.

Steven P. French. 1998. "Spatial Analysis Techniques for Linking Physical Damage to Economic Functions." in M. Shinozuka A. Rose and R. Eguchi, eds. *Engineering and Socioeconomic Impacts of Earthquakes: An Analysis of Electricity Lifeline Disruptions in the New Madrid Area*. Buffalo, NY: Multidisciplinary Center for Earthquake Engineering Research.

Steven P. French. 1995. "Planning for Reconstruction: Opportunities and Constraints Facing Wellington" in *Wellington After the Quake: The Challenge of Rebuilding Cities*. Wellington, New Zealand: Earthquake Commission.

Steven P. French. 1993. "RISKEQ: Earthquake Risk Analysis" in Klosterman, Brail and Bossard, eds. *Spreadsheet Models in Urban and Regional Analysis*. New Brunswick, NJ: Center for Urban Policy Research, Rutgers University.

Steven P. French. 1993. "GIS: Underpinning for Specialized Niche Products" in Gilbert Castle, ed. *Profiting from a Geographic Information System*. Fort Collins, Colorado: GIS World.

Steven P. French. "A Preliminary Assessment of Damage to Urban Infrastructure" in *The Loma Prieta Earthquake: Studies of Short-Term Impacts*. Robert Bolin, ed., Boulder, Colorado: Natural Hazards Research and Applications Information Center, 1990.

Lyna L. Wiggins and Steven P. French. 1988. "Thematic Mapping Packages for Microcomputers" in *A Planner's Review of Software and Technology*, PAS Report 414. Chicago: APA.

Steven P. French, "The Evolution of Decision Support Systems for Earthquake Hazard Mitigation" in *Terminal Disasters: Computer Applications for Extreme Events*, Sallie A. Marston, ed., Boulder, Colorado: Natural Hazards Research and Applications Information Center, 1985.

INVITED PRESENTATIONS:

November 17, 2004 – "Combining GIS and Remote Sensing for Urban Planning and Management." Paper presented at the CEOS International Workshop on Earth Observation Technology and Application, Beijing, China.

March 25, 2002 – "This Is Not Your Father's GIS" Keynote Address at the Fifteenth Annual Geospatial Information Systems for Transportation Symposium (GIS-T), Atlanta, Georgia.

August 4, 1998 - "Estimating the Impact of Lifeline Damage with GIS." Paper presented at the Third US-China-Japan Trilateral Symposium on Lifeline Earthquake Engineering, Kunming, China.

April 9, 1998 - "GIS in Policy Research: Natural Hazards and Other Applications" Geography Department, University of North Carolina-Chapel Hill.

August 21, 1997 - "Research Overview: Public Policy." Northridge Earthquake Research Conference. Los Angeles, California.

April 28, 1997 - "Shared Data Resources for State and Local Planning." Keynote address Montana/Idaho GIS Conference, Bozeman, Montana.

March 27, 1995 - "Planning for Reconstruction: Opportunities and Constraints" Wellington After the Quake: The Challenge of Rebuilding Cities, Wellington, New Zealand.

PROFESSIONAL REPORTS:

Steven P. French and Sugie Lee. 2003. *Urban Heat Island: Physical Market for Mitigation Strategies*. Atlanta, GA: Resource Communications, Inc.

Steven P. French and Sugie Lee with Sandeep Bashyal, Chip Burger, David Cassell, Mausam Duggal, Jamee Holt and Jean Hee Park. 2003. *Alternative Land Use Futures: Metropolitan Atlanta 2025*. Atlanta, Georgia: Center for Quality Growth and Regional Development.

Steven P. French, Subrahmanyam Muthukumar, Christina M. Baxter, Jeremy Myers and Jean Wolf. 2002. *Savannah River Site Emergency Operations Center GIS/GPS Evaluation Report*. Aiken, SC: Westinghouse Savannah River Company.

Center for Geographic Information Systems. 2002. *Regional Land Use Database: Database Design Document*. Atlanta, GA: Georgia Regional Transportation Authority.

Center for Geographic Information Systems. 2001. *Coastal Georgia Footprints Project: Land Use Impacts on Critical Coastal Resources*. Savannah, GA: The Georgia Conservancy.

Center for Geographic Information Systems. 2001. *Evaluation of Geographic Information Systems Capabilities at the Savannah River Site*. Aiken, SC: Westinghouse Savannah River Company.

Steven P. French and Robert Olshansky. 2000. *Inventory of Essential Facilities in Mid-America - Final Report*. Champaign-Urbana, Illinois: Mid-America Earthquake Center.

Steven P. French and Douglas Allen. 1999. *South Fulton Parkway Corridor: Implementation Strategy*.

South Fulton Parkway Alliance, Fairburn Georgia.

Steven P. French and Douglas Allen. 1999. *South Fulton Parkway Corridor. Scenarios for Future Development*. South Fulton Parkway Alliance, Fairburn Georgia.

Steven P. French, Xudong Jia, Yi Chang Tsai and S. Muthukumar. 1997. *Estimating Social and Economic Impacts of Infrastructure Damage with GIS*. Final Report to the National Center for Earthquake Engineering Research (95-6101C).

Steven P. French, Arthur C. Nelson, S. Muthukumar and Maureen M. Holland. 1996. *The Northridge Earthquake: Land Use Planning for Hazard Mitigation*. Final Report to the National Science Foundation, Washington, D.C.

Steven P. French, Xudong Jia, Elizabeth F. Meyer and Sanjay Grover. 1995. *Estimating Societal Impacts of Infrastructure Damage with GIS*. Final Report to the National Center for Earthquake Engineering Research (93-6004).

Lyna L. Wiggins, Steven P. French and Richard K. Brail. 1995. *Westchester County Department of Planning: Information Systems Assessment and Needs Analysis*. White Plains, NY: Westchester County.

Co-author with Paul Crawford. 1994. *Placer County GIS: Departmental Needs and Computer Resources*. San Luis Obispo, CA: Crawford Multari and Starr.

Steven P. French (co-author). 1993. *Olympic Ring Neighborhoods Summary Report and Fifteen Individual Neighborhood Reports*. Atlanta: Corporation for Olympic Development in Atlanta.

Steven P. French with Raymond J. Burby, Michael Jaffe and Steven White. 1992. *Damage to Urban Infrastructure and Public Property from the Loma Prieta Earthquake*. Final Report to the National Science Foundation, Washington, D.C.

Steven P. French, John C. Castanon and Alan Hanson. 1991. *A Knowledge Base Approach to Using Existing Data for Seismic Risk Assessment*. Report to National Science Foundation, Washington, DC.

Co-author with Crawford, Multari and Starr. 1991. *City of Atascadero Fiscal Impact Model*. San Luis Obispo: Crawford, Multari and Starr.

Steven P. French and Raymond K. Belknap. 1991. *Countywide Settlement Pattern Strategy for San Luis Obispo County: Phase II Report*. San Luis Obispo County Planning Department.

Co-author with Crawford, Multari and Starr. 1990. *City of Atascadero Long Range Financial Study*. San Luis Obispo: Crawford, Multari and Starr.

Steven P. French and Raymond K. Belknap. 1990. *Countywide Settlement Pattern Strategy for San Luis Obispo County: Phase I Report*. San Luis Obispo County Planning Department.

Steven P. French. 1989. "The Utilization of Geographic Information Systems for Land Use Planning and Emergency Preparedness," Nagoya, Japan: United Nations Centre for Regional Development.

Steven P. French and Heather L. McMillan. 1989. *San Luis Obispo County User Needs Assessment for Automated Mapping/Geographic Information Systems*. California Polytechnic State University Design Institute Report GIST-01-89.

Steven P. French, Craig A. Ewing and Mark S. Isaacson. 1984. *Restoration and Recovery Following the Coalinga Earthquake of May, 1983*, Natural Hazard Research Working Paper No. 50, Boulder, CO: Natural Hazards Research and Applications Information Center, University of Colorado.

Steven P. French and Raymond J. Burby. 1980. *Managing Flood Hazard Areas: The State of Practice*. Chapel Hill, NC: Center for Urban and Regional Studies, University of North Carolina.

BOOK REVIEWS:

Review of *Urban Land Use Planning* (Fourth Edition) by Edward J. Kaiser, David R. Godschalk and F. Stuart Chapin in *Journal of Planning Education and Research*. 15:2. 1996.

Review of Principles of Geographical Information Systems for Land Resources Assessment by P.A. Burrough for *Computers, Environment and Urban Systems*, 12:3, 1988.

RESEARCH GRANTS AND CONTRACTS:

- 2005 Principal Investigator – Mid-America Earthquake Center – “Quantitative Models of Social and Economic Consequences (DS-7b-Year 1)” \$40,000
- 2005 Principal Investigator – Mid-America Earthquake Center – “Advanced Inventory Technologies (DS-2-Year 4)” \$160,000
- 2005 Principal Investigator – Mid-America Earthquake Center – “High Level Briefings (E-5e)” \$20,000
- 2005 Principal Investigator – Mid-America Earthquake Center – “Research Coordination – Social Science Program (RC-6)” \$20,000
- 2004 Principal Investigator – Emory University/Robert Wood Johnson Foundation – “Neighborhood Parks for Active Living – GIS Analysis” \$24,701
- 2004 Principal Investigator – Georgia Technology Authority – “Georgia GIS Data Clearinghouse” \$137,500
- 2004 Principal Investigator - University System of Georgia - “Strategic Initiative for Geographic Information Systems” \$504,832
- 2003 Principal Investigator – Mid-America Earthquake Center – “Advanced Inventory Technologies (DS-2-Year 3)” \$140,000
- 2003 Principal Investigator - Resources Communications, Inc. – “Urban Air Quality Project: Definition of the Physical Market for Urban Heat Island Mitigation Strategies” \$25,050
- 2003 Principal Investigator - Atlanta-Fulton County Library – “Library Utilization and Service Area Delineation” \$17,610
- 2003 Principal Investigator – Georgia Technology Authority – “Georgia GIS Data Clearinghouse” \$137,500
- 2003 Principal Investigator - University System of Georgia - “Strategic Initiative for Geographic Information Systems” \$504,832
- 2003 Principal Investigator – Mid-America Earthquake Center – “Advanced Inventory Technologies (DS-2-Year 2)” \$140,000
- 2002 Principal Investigator – Westinghouse Savannah River Company – “Savannah River Site Emergency Operations Center GIS/GPS Evaluation Report” \$61,293

2002 Co-Principal Investigator – Georgia Regional Transportation Authority – “SMARTRAQ Regional Land Use Database - Year 2” \$182,000

2002 Principal Investigator – Mid-America Earthquake Center – “Advanced Inventory Technologies (DS-2-Year 1)” \$140,000

2002 Co-Principal Investigator - Metropolitan North Georgia Water Planning District – “Impervious Surface Database Development and Public Education Support” \$102,381

2002 Principal Investigator - University System of Georgia - “Strategic Initiative for Geographic Information Systems” \$504,832

2001 Co-Principal Investigator – Georgia Regional Transportation Authority – “SMARTRAQ Regional Land Use Database - Year 1” - \$182,000

2001 Principal Investigator – Trees Atlanta, Inc. – "Greenspace Acquisition Support System" \$29,441

2001 Principal Investigator – Westinghouse Savannah River Company – “Evaluation of Geographic Information System Capabilities at the Savannah River Site” \$19,426

2001 Principal Investigator – The Georgia Conservancy – “Coastal Georgia Footprints Project: Land Use Impacts on Critical Coastal Resources” \$11,119

2001 Principal Investigator – Mid-America Earthquake Center– “Inventories of Industrial Facilities in Mid-America (SE-15)” \$60,000

2001 Principal Investigator – Mid-America Earthquake Center – “Benefit-Cost of Retrofit for Regions – Phase II (SE-7)” \$40,000

2001 Principal Investigator – Mid-America Earthquake Center– “Inventories of Transportation Networks in Mid-America – Phase II (SE-5)” \$50,000

2001 Co-Principal Investigator - University System of Georgia - “Strategic Initiative for Geographic Information Systems” \$497,500.

2000 Principal Investigator – Georgia Information Technology Policy Council – “National Wetlands Inventory Dictionary and GIS Tools” \$110,040

2000 Principal Investigator – Georgia Information Technology Policy Council – “Telecommunications Infrastructure Database for Georgia” \$50,000

2000 Principal Investigator – Georgia Information Technology Policy Council – “Guidance Documents for Atlanta Transportation GIS Data Reconciliation” \$57,000

2000 Co-Principal Investigator - University System of Georgia - “Strategic Initiative for Geographic Information Systems” \$497,500.

2000 Principal Investigator – Mid-America Earthquake Center – “Benefit-Cost of Retrofit for Regions (SE-7)” \$40,000

1999 Co-Principal Investigator - University System of Georgia - “Strategic Initiative for Geographic Information Systems ” \$497,900.

- 1999 Principal Investigator – Georgia Center for Advanced Telecommunications Technology – “Georgia High Speed Telecommunications Atlas” \$18,200
- 1999 Co-Principal Investigator – Mid-America Earthquake Center– “Loss Assessment Methodologies (SE-5)” \$40,000
- 1998 Principal Investigator – Mid-America Earthquake Center – “Inventories of Essential Facilities in Mid-America (SE-1)” \$80,000
- 1998 Principal Investigator – Mid-America Earthquake Center– “Inventories of Transportation Networks in Mid-America (SE-3)” \$60,000
- 1998 Principal Investigator – South Fulton Parkway Alliance, “South Fulton Parkway Master Plan” \$141,000
- 1998 Co-Principal Investigator - University System of Georgia - “Strategic Initiative for Geographic Information Systems ” \$497,900.
- 1997 Co-Principal Investigator - University System of Georgia - “Strategic Initiative for Geographic Information Systems ” \$499,500.
- 1996 Co-principal Investigator - University System of Georgia - “Strategic Initiative for Geographic Information Systems ” \$497,000.
- 1996 Principal Investigator - National Center for Earthquake Engineering Research - "Estimating Social and Economic Impacts of Building Damage with GIS." \$55,000.
- 1995 Co-principal Investigator - University System of Georgia - “Strategic Initiative for Geographic Information Systems ” \$499,000.
- 1995 Principal Investigator - National Center for Earthquake Engineering Research - "Estimating Social and Economic Impacts of Infrastructure Damage with GIS." \$58,000.
- 1994 Principal Investigator - National Science Foundation - "Assessment of Damage from the 1994 Northridge Earthquake Relative to Planning Since the 1971 San Fernando Earthquake." (CMS-9416458) \$87,464.
- 1994 Principal Investigator - National Center for Earthquake Engineering Research (NSF Center) - "Estimating Societal Impacts of Infrastructure Damage with GIS." \$60,000.
- 1993 Principal Investigator - Corporation for Olympic Development in Atlanta (CODA) - "CODA Olympic Neighborhood Survey." \$43,477.
- 1990 Principal Investigator - Subcontract to University of North Carolina - National Science Foundation project -"The Use of State Planning Mandates in Hazard Mitigation." \$78,374.
- 1990 Principal Investigator - National Science Foundation research grant - "Damage to Public Property from the Loma Prieta Earthquake: Analysis and Comparison to Whittier Experience and ATC Estimates" (BCS-9011134). \$46,070.
- 1989 Principal Investigator - Subcontract to Stanford University - National Science Foundation research project - "Integrated Inventory Databases for Seismic Risk Assessment" (BCS-8822125). \$77,802.
- 1990 Project Director - San Luis Obispo County Settlement Pattern Strategy. \$35,000.

- 1989 Principal Investigator - Natural Hazards Quick Response Grant - "Damage to Urban Infrastructure in the Loma Prieta Earthquake of October 17, 1989." 2,500.
- 1988 Project Director - User Needs Assessment for Automated Mapping and Geographic Information Systems for San Luis Obispo County, California. \$10,000.
- 1987 Subcontract to University of North Carolina - National Science Foundation project - "Coping with Losses to Infrastructure from Natural Hazards" (ECE-8517266). \$29,912.
- 1985 Principal Investigator - Natural Hazards Quick Response Grant - "Coalinga Recovery and Reconstruction after the May 2, 1983 Earthquake." \$2,500.
- 1982 Subcontract to Rice Center, Houston, Texas - National Science Foundation research project - "Earthquake Risk Analysis for Land Use Planning." \$20,000.

CONFERENCE PRESENTATIONS:

- October 21, 2004. "Urban Heat Island Effects: Physical Market for Mitigation Measures" 45th Annual Conference of the Association of Collegiate Schools of Planning, Portland, Oregon.
- October 14, 2004 "Estimating Impervious Surfaces for Urban Heat Island Modeling," Georgia Planning Association Annual Conference, Young Harris, Georgia
- September 16, 2004. "A Standardized Methodology for Siting Overhead Electric Transmission Lines." *The 8th International Symposium on Environmental Concerns in Rights-of-Way Management*, September 14-17, 2004, Saratoga Springs, New York.
- October 14, 2003. "SMARTRAQ Regional Land Use Geodatabase – Development and Applications," 41st Annual Conference of the Urban and Regional Information Systems Association, Atlanta, Georgia.
- July 2003. "Alternative Land Use Futures for Metropolitan Atlanta" AESOP-ACSP Joint Congress, Leuven, Belgium.
- May 26, 2003. "Advanced Technologies for Earthquake Risk Inventories" Seismic Risk in Urban Areas GNDT-SAFERR-MAE Workshop, Erice, Sicily.
- November 21, 2002. "Emerging Centers in a Sea of Sprawl" 44th Annual Conference of the Association of Collegiate Schools of Planning, Baltimore, Maryland.
- November 10, 2001 – "Overcoming Barriers to Smart Growth: Regional Benefits versus Neighborhood Concerns" 43rd Annual Conference of the Association of Collegiate Schools of Planning, Cleveland, Ohio.
- November 9, 2001 – "The Evolution of GIS: What a Long Strange Trip It's Been" 43rd Annual Conference of the Association of Collegiate Schools of Planning, Cleveland, Ohio.
- July 12, 2001 – "The Georgia High Speed Telecommunications Atlas" 21st Annual ESRI International User Conference, San Diego, California.
- November 3, 2000 – "The Georgia High Speed Telecommunications Atlas" 42nd Annual Conference of the Association of Collegiate Schools of Planning, Atlanta, Georgia.
- November 2, 2000 – "Land Use Patterns in the Atlanta Metropolitan Region" 42nd Annual Conference of the Association of Collegiate Schools of Planning, Atlanta, Georgia.

September 7, 2000 – “Inventories of Transportation Facilities in Mid-America,” Post-Earthquake Highway Response and Recovery Seminar, St. Louis, Missouri.

July 17, 2000 – “Land Use Planning for Disaster Resistant Communities,” Natural Hazards Research and Applications Workshop, Boulder, Colorado.

October 21, 1999 – “Optimizing the Land Use Mix,” 41st Annual Conference of the Association of Collegiate Schools of Planning, Chicago, Illinois.

September 22, 1999 – “The Role of GIS in the Planning Process,” Southeast Regional Planning Conference, Atlanta, Georgia.

September 22, 1999 – “Publishing for Practicing Planners,” Southeast Regional Planning Conference, Atlanta, Georgia.

October 23, 1998 – “Watershed Planning with GIS,” American Heritage River Symposium, Atlanta, Georgia.

November 7, 1997 - "Land Use Planning for Earthquake Hazard Mitigation: Lessons from Northridge," 39th Annual Meeting of the Association of Collegiate Schools of Planning, Fort Lauderdale Florida.

July 17, 1998 - "Essential Facilities in Middle America" Natural Hazards Research and Applications Workshop, Boulder, Colorado.

April 7, 1997 - “Modeling Water System Damage with GIS” American Planning Association National Conference, San Diego, California.

November 20, 1996 - “Planning Disaster Resistant Communities” Central United States Earthquake Consortium Annual Conference, Memphis, Tennessee.

July 29, 1996 - "Organizational Structures for GIS Implementation" Annual Conference of the Urban and Regional Information Systems Association, Salt Lake City, Utah.

April 15, 1996 - “Making Governments Plan” American Planning Association National Conference, Orlando, Florida.

October 21, 1995 - "Modeling the Social and Economic Impacts of Infrastructure Damage with GIS" 37th Annual Meeting of the Association of Collegiate Schools of Planning, Detroit, Michigan.

July 19, 1995 - "Modeling the Population Impacts of Infrastructure Damage with GIS" Thirty-third Annual Conference of the Urban and Regional Information Systems Association, San Antonio, Texas.

July 17, 1995 - "Assessing the Effectiveness of Land Use Planning for Earthquake Hazard Mitigation" at Natural Hazards Research and Applications Workshop, Boulder, Colorado.

November 6, 1994 - "Planning for the 1996 Olympics: Stadia, Infrastructure and Redevelopment" 36th Annual Meeting of the Association of Collegiate Schools of Planning, Tempe, Arizona.

August 11, 1994 - "Using GIS in Olympic Redevelopment Planning" Thirty-second Annual Conference of the Urban and Regional Information Systems Association, Milwaukee, Wisconsin.

July 18, 1994 - "Modeling Societal Impacts of Earthquake Damage to Infrastructure with GIS" Natural Hazards Research and Applications Workshop, Boulder, Colorado.

April 18, 1994 - "Reinventing Planning Decision Support Systems" 1994 American Planning Association National Conference, San Francisco, California.

October 31, 1993 - "A Tale of Two Cities: Comparing the Loma Prieta and Whittier Narrows Earthquakes" 35th Annual Meeting of the Association of Collegiate Schools of Planning, Philadelphia, Pennsylvania.

July 28, 1993 - Organized and Chaired session, "The Atlanta Project" Thirty-first Annual Conference of the Urban and Regional Information Systems Association, Atlanta, Georgia.

July 28, 1993 - "Using Commercial Data in Urban Planning Applications" Thirty-first Annual Conference of the Urban and Regional Information Systems Association, Atlanta, Georgia.

May 3, 1993 - "State Planning Mandates: The Effect on Local Plans" American Planning Association National Planning Conference, Chicago, Illinois.

January 29-30, 1993 - Chaired Working Group in National Science Foundation Workshop "Geographic Information Systems and Their Application in Geotechnical Engineering," Atlanta.

September 29, 1992 - "System Planning: Finding the Right Solution" at the Fifth Annual Southeast GIS Conference, Atlanta, Georgia.

July 14, 1992 - "Reconciling Census and Tax Assessor Mapping Systems at the 30th Annual Conference of the Urban and Regional Information Systems Association, Washington, D.C.

January 9-10, 1992 - Participant in National Science Workshop " Architectural Research Needs in Earthquake Hazard Mitigation," Cambridge, MA.

August 14, 1991 - "A Knowledge-Based Approach to Using Existing Data for Seismic Risk Assessment" the Annual Conference of the Urban and Regional Information Systems Association, San Francisco, California.

August 12, 1991 - "Analyzing Rural Development Alternatives Using a Geographic Information System" Annual Conference of the Urban and Regional Information Systems Association, San Francisco, CA

November 3, 1990 - "Modeling Earthquake Damage for Urban Infrastructure with GIS" 32nd Annual Conference of the Association of Collegiate Schools of Planning, Austin, Texas.

November 1, 1990 - Presentation on using geographic information systems in analyzing alternative development strategies at ACSP Computer Users Group, Austin Texas.

July 17, 1990 – "Loma Prieta Infrastructure Damage" 15th Annual National Hazards Research and Applications Workshop, Boulder, Colorado.

April 23, 1990 - Organized and moderated a panel entitled "Building and Managing a Geographic Information System" at APA National Planning Conference, Denver.

October 5, 1989 - "California Planning Agency Experiences with Automated Mapping and Geographic Information Systems" at the 31st Annual Conference of the Association of Collegiate Schools of Planning, Portland.

August 8, 1989 - "Linkages between Planning and Engineering Mapping Requirements." at the 1989 Annual Conference of the Urban and Regional Information Systems Association, Boston.

May 18, 1989 – "Assessing the Needs of a Planning Department for Automated Mapping Systems. California County Planning Directors Association, San Luis Obispo, California.

April 30, 1989 - Organized and moderated session entitled "GIS and Urban Planning: A Vendor Dialogue" at APA National Planning Conference, Atlanta.

October 29, 1988 – "Computer Adoption and Use in California Planning Agencies: Implications for Education" at the 30th Annual Conference of the Association of Collegiate Schools of Planning, Buffalo.

August 10, 1988 - "An Automated Lifeline Inventory for Earthquake Damage Modeling" at the 26th Annual Conference of the Urban and Regional Information Systems Association, Los Angeles.

August 9, 1988 - "Current Trends in Microcomputer Adoption and Use in California Planning Agencies" at 26th Annual Conference of the Urban and Regional Information Systems Association, Los Angeles.

November 6, 1987 - "Analyzing the Risk of Natural Hazard Damage to Urban Infrastructure" at the Association of Collegiate Schools of Planning Annual Meeting, Los Angeles.

November 5, 1987 - "Microcomputer Use in California Planning Agencies: Implications for Planning Education," at Microcomputer Users Group of the American Collegiate Schools of Planning Annual Meeting, Los Angeles.

July 20, 1987 - Conference presentation summarizing NSF "Coping with Losses to Infrastructure" research project at National Hazards Workshop, Boulder, Colorado.

May 14, 1987 - Invited speaker at California County Planning Directors Association. Presentation on Land Information Systems in Planning and demonstrated mapping software, Monterey, CA.

April 23, 1987 - Panelist on "Impact of Computing Technologies on Planning Curricula" at MIT / Lincoln Institute of Land Policy Conference on "Computing in Planning Education," Boston, Massachusetts.

October 9, 1986 – "Available GIS and Computer Mapping Software" Association of Collegiate Schools of Planning Microcomputer Users Group, Milwaukee.

September 29, 1986 – "Computer Mapping Systems" International City Managers Association Annual Conference, San Diego.

April, 1986 - Organized and chaired session on Earthquakes and Geologic Hazards at American Planning Association National Conference, Los Angeles.

July 8, 1985 - "The Evolution of Decision Support Systems for Earthquake Hazard Mitigation," Natural Hazards Workshop, Boulder, Colorado.

April 20, 1985 - "Teaching Computer Applications in an Undergraduate Planning Program," ACSP Microcomputer Users Group, Montreal, Canada.

August 16, 1984 - "Earthquake Information Needs of Local Governments" at USGS workshop on Regional and Urban Earthquake Hazards and Risk, Salt Lake City, Utah.

ACADEMIC COURSES:

Georgia Institute of Technology

CP 6112 – Introduction to Land Use Planning, Spring 2000, 2001, 2002, 2003, Fall 2004

CP 6052 – Urban Modeling Studio, Spring 2005

CP 6052 – Regional Planning Studio, Fall 2002

CP 4510 – Fundamentals of GIS, Fall 1999, 2000, 2001

CP 6565 - Introduction to GIS, Winter 1994-1996, Spring 1993, 1994, 1999
CP 6930 - Introduction to Fields of Study in Planning, Winter 1992, Fall 1992-1998
CP 6911 - Community Problems Studio, Winter 1993, 1997, 1998, Spring 1998
CP 8110 - Sustainable Urban Development, Spring 1995
CP 6920 - Professional Practice, Fall 1992
CP 8150 - Advanced GIS, Spring 1992

California Polytechnic State University

CRP 513 - Survey Research Methods, Fall 1981, 1982, 1983, 1985, 1986, 1988-1990
CRP 516 - Quantitative Methods in Planning, Winter 1982-1987, 1989
CRP 457 - Planning Information Systems, Spring 1982, 1984, 1986, 1987, 1990, 1991
CRP 216 - Microcomputer Applications in Planning, 1983-1987, 1989, 1990, 1991
CRP 351-353 - General Plan Preparation Laboratory, 1981-1984, 1991
CRP 552 - Graduate Planning Laboratory, Winter 1984, 1985, 1990
CRP 451 - Environmental Planning Laboratory, Fall 1986, 1988, 1989
CRP 554 - Regional Planning Laboratory - Fall 1989
CRP 444 - Infrastructure Planning and Management, Spring 1989, 1990, 1991

Stanford University

CE 225 - Microcomputers in Urban and Environmental Engineering, 1988 (Stanford)

CONTINUING EDUCATION WORKSHOPS:

June 16, 2005 "Community Planning Institute" Georgia Department of Community Affairs/Georgia Planning Association, Dahlonega, Georgia.

March 24, 2005 "Community Planning Institute" Georgia Department of Community Affairs/Georgia Planning Association, Albany, Georgia.

August 18, 2004. "Technology for Smart Growth." U.S. Environmental Protection Agency Region IV, Atlanta, Georgia.

July 8, 2004, "Community Planning Institute" Georgia Department of Community Affairs/Georgia Planning Association, Dalton, Georgia.

July 20, 1999. "Georgia Growth Management and Urban Land Use Law" National Business Institute, Atlanta, Georgia.

May 8-9, 1998. "Geographic Information Systems in Teaching and Research" Workshop for University System of Georgia faculty, Atlanta, Georgia.

September 10-11, 1997. "Geographic Information Systems in Teaching and Research" Workshop for University System of Georgia faculty, Atlanta, Georgia.

March 24-25, 1997. "Geographic Information Systems in Teaching and Research" Workshop for University System of Georgia faculty, Atlanta, Georgia.

December 14, 1995 - "Atlas*GIS for the IBM-PC" Workshop for University of California Extension, Sacramento, California.

December 15, 1995 - "Introduction to Geographic Information Systems" Workshop for University of California Extension, Davis, California.

December 10, 1994 - "Atlas*GIS for the IBM-PC," Workshop for University of California Extension, Sacramento, California.

December 9, 1994 - "Introduction to Geographic Information Systems" Workshop for University of California Extension, Davis, California.

June 25, 1994 - "Atlas*GIS for the IBM-PC," Workshop for University of California Extension, Sacramento, California.

June 24, 1994 - "Introduction to Geographic Information Systems" Workshop for University of California Extension, Davis, California.

September 8-10, 1993 - "GIS for Economic Development" Workshop for Georgia Department of Community Affairs, Atlanta, Georgia.

June 24, 1993 - "Atlas*GIS for the IBM-PC" Workshop for University of California Extension, Sacramento, California.

June 23, 1993 - "Introduction to Geographic Information Systems" Workshop for University of California Extension, Davis, California.

December 12, 1992 - "Atlas*GIS for the IBM-PC" Workshop for University of California Extension, Sacramento, California.

December 11, 1992 - "Introduction to Geographic Information Systems," Workshop for University of California Extension, Davis, California.

October 28, 1992 - Instructor ACSP/Lincoln Institute of Land Policy Shortcourse "GIS in Planning: Principles and Packages" Columbus, Ohio.

June 24, 1992 – "Conducting a User Needs Assessment" in "Introduction to Geographic Information Systems" Atlanta, Georgia.

January 24, 1992 - "Atlas*GIS for the IBM-PC" - Workshop for University of California Extension, Sacramento, California.

November 1, 1991- "Conducting a User Needs Assessment" at Lincoln Institute of Land Policy short course "GIS, Spreadsheet and Database Management for Land Use Decision", Seattle, Washington.

October 4, 1991 - "Introduction to Geographic Information Systems" - Workshop for University of California Extension, Davis, California.

June 26, 1991- Presentation on using geographic information systems to support growth management at Lincoln Institute of Land Policy workshop "Strategies for the Management and Control of Growth, Mexico City.

April 19, 1991 - "Introduction to Geographic Information Systems" - Workshop for Solano County, Fairfield, California.

March 15, 1991 - "Introduction to Geographic Information Systems" - Workshop for California Department of Water Resources, Sacramento, California.

November 5, 1990 - Presentation on conducting a user needs assessment for geographic information systems at Lincoln Institute of Land Policy short course "GIS, Spreadsheet and Database Management for Land Use Decisions, Cambridge Massachusetts.

September 16-17, 1988 - Lincoln Institute of Land Policy short course "Geographic Information Systems Database and Mapping Applications," San Luis Obispo, California.

September 18-19, 1986 - Conducted session on land parcel database management at Lincoln Institute of Land Policy course "Microcomputer for Planners" in Los Angeles.

August 23-24, 1985 - Conducted three sessions on microcomputer applications in planning at annual California Chapter APA Conference, San Luis Obispo, California.

UNIVERSITY COMMITTEES:

Georgia Institute of Technology

Vice Provost for Undergraduate Studies Search Committee – 2005
City and Regional Planning Faculty Search Committee, Chair - 2004-2005
Institute Research Promotions Committee - 2003-2004
Institute Post-Tenure Oversight Committee - 2002-2003
Institute Reappointment Promotion and Tenure Committee - 2000-2002
College of Architecture Executive Council - 1993-present
College of Architecture Reappointment Promotion and Tenure Committee -1999; Chair, 2000-2002
Harry West Endowed Chair Search Committee – Chair - 2000-2001
College of Architecture Dean's Review Committee - 1999-2000
Registrar Search Committee - 1999-2000
President's Sustainability Policy Council -1995-1996
College of Architecture Information Technology Committee - Chair - 1994-1996, Member -2003
Architecture Program Director Search Committee - 1993
College of Architecture Dean Search Committee - 1992
College of Architecture Advisory Committee - 1992-1994

California Polytechnic State University

Instructional Advisory Computing Committee - 1989-1991
Academic Senate - 1983-1987
University Long Range Planning Committee - member 1983-1984, chair 1984-1987
Architecture and Environmental Design Computer Committee - 1981-1991

PROFESSIONAL SERVICE:

Georgia Planning Association – Community Planning Institute – 2004-2005
Atlanta Regional Commission Land Use Coordinating Committee – Member – 2003 - present
Atlanta Regional Commission Regional Development Plan Team – Member - 2001- 2004
ACSP Conference Land Use Track - Chair – 2001-2004
Planning Accreditation Board Site Review Team – Chair -1999, 1997; Member - 1994, 1995
Dunwoody Homeowners Association – Executive Committee – 1999-2000
Georgia Planning Association - Professional Development Officer – 1998-1999
Urban and Regional Information Systems Association - Board of Directors - 1995 - 1998
Project Oversight Committee - Standardized Loss Estimation Methodology (HAZUS)-1993 - 1997
ACSP - Distinguished Educator Award Committee - Chair - 1994 – 1995
San Luis Obispo County Land Conservancy - Board of Directors - 1985 – 1991
American Planning Association Information Technology Division – Treasurer - 1989-1991
Editorial Board - *Journal of the American Planning Association* – 2004- present
Editorial Board – *Earthquake Spectra* - 2004 - present
Editorial Board - *Journal of the American Planning Association* - 1996 - 2002
Editorial Board - *URISA Journal* - 1992 – 2000
Editorial Board - *Journal of Planning Education and Research* - 1991 - 1995
Editorial Board - *Computers, Environment and Urban Systems* - 1991 – 1996
Referee *Natural Hazards Review* – 2002-present
Referee - *Journal of the American Planning Association*, 1979 - present

Referee - *Journal of the Urban and Regional Information System Association*, 1991 – 2003

Referee - *Journal of Environmental Planning and Management*, 2005

Referee – *State and Local Review*- 1991 – 2000

Review Panel – National Science Foundation, 1997, 2000, 2003, 2004

Proposal Reviewer - National Science Foundation, 1983 - present

Proposal Reviewer - U.S. Geological Survey, 1985 – 1992

PROFESSIONAL MEMBERSHIPS:

American Planning Association

American Institute of Certified Planners

Urban and Regional Information Systems Association

Earthquake Engineering Research Institute