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QUALIFICATIONS

- Senior manager with 42 years experience in the public sector, consulting and academia.
- Broad policy, strategic planning, analytical and writing skills.
- Hands-on consulting on transportation issues.
- National reputation for high-quality, objective analysis of transportation issues.
- Extensive expertise in managing a wide range of complex transportation studies.

EXPERTISE

Economic Development

Beltways and economic development	Land pricing and road access
Traffic impacts of site development	Commercial development along Interstates
Business views of transportation	Economic sector assessment and industry targeting
Truck traffic and routing	Regional economic performance
Regional productivity and competitiveness	Regional distribution systems
Congestion and highway capacity	Evaluation of road proposals

Transportation Funding

Comparative performance of highway systems	Federal legislation and road performance
Condition of state and municipal road systems	Bridge condition, performance and needs
Needs and funding options for road systems	International performance and border traffic

Airports and Ports

Impacts of commercial airports	Characteristics of air travelers
General aviation airport impacts	Port competitiveness

Transit

Light rail and rapid bus evaluation	Transit system comparative assessment
Transit system performance audits	Transit route location assessment
Visions, trends and costs	Transit rider characteristics

Sprawl and Growth

Sprawl and road investment	Travel patterns in numerous cities
Travel demand modeling	Travel behavior, carpooling and flextime
Telecommuting	Emergency and special event transportation
Forecasts of travel and congestion	Regional demographic forecasts

Environment, Energy and Organizational Change

Environmental impacts	Air quality and greenhouse gas analysis
Transportation energy and pricing	Electric and natural gas fuels
Organizational change and regional planning	Information technologies

EXPERIENCE

January 2007-Present: President, The Hartgen Group, Charlotte, NC. Consulting in transportation performance, congestion, financing, transit operations, accessibility and regional productivity, greenhouse gas assessment.

January 1989–December 2006: Professor of Transportation Studies, University of North Carolina at Charlotte. Professor, Department of Geography and Earth Sciences; Adjunct Professor, Civil Engineering, 1989-2000; Associate, Urban Institute, 1989-2000

- **Academic:** Graduate courses in Transportation Policy, Analysis Methods, Impacts, GIS, Public Transportation, Transportation Planning, and Management and Finance. Numerous research studies and student theses.
- **Leadership:** Organized, initiated and directed Interdisciplinary Transportation Studies Center, 1991-March 2000. The Center conducted research, hosted workshops and conferences, and published reports. Extensive nationwide media contact.
- **Consulting and Research:** Studies of manufacturing, traffic forecasts, road system performance, highway impacts, site evaluation, economic impacts, school locations, transportation system performance, household travel, trade, air quality, passenger security, electric and natural gas vehicles, ITS technology, airport impacts, transit performance, motor sports impacts, economic development, highway system condition and repair needs, sprawl and road investments. 185 papers and reports. Active in local Chambers, professional associations, media, consulting.

August 1987 - December 1988. Principal Transportation Analyst, New York State Department of Transportation, Albany, NY, 12232

- Develop information technology plan for the New York State Department of Transportation.
- Testimony on emergency evacuation plans for the Shoreham Nuclear Power Station on Long Island.

February 1981 - July 1987. Director, Transportation Statistics and Analysis, New York State Department of Transportation, Albany, NY 12232.

- **Leadership:** Directed 60-person office responsible for data collection, systems planning and forecasting. Revitalized an extensive highway and traffic data system into information system. Designed and implemented new methods of rapidly assessing highway condition, cut data delivery time by 90% and improved accuracy and reliability. Streamlined the traffic count program, reduced data access time by 95%.
- **Consulting and Research:** Principal investigator on 6 federal studies of traffic, forecasts, and energy. Directed analysis and evaluation of energy conservation and contingency plans. Implemented demonstrations of employer and community-based ridesharing. Updated NYS household trip generation rates. Transit fare sensitivity, financing, and project benefit-costs. Integrated corporate database. Infrastructure needs assessment model to forecast repair needs. Canal information system. 59 papers and reports.
- **Academic:** Adjunct Professor, SUNY-Albany, Department of Geography, 1984-1988. Student intern program with local universities. Guest lectures at numerous universities in US and Europe.

May 1984 - March 1985. Policy Analyst, Federal Highway Administration, Washington, DC 20590.

- Evaluated highway information needs for FHWA and the States. Recommended improvements to FHWA planning-related data systems.
- Reviewed pavement initiatives studies, long-term monitoring of pavements. Developed bridge and highway deterioration models.

July 1967-- February 1981. Transportation Analyst, New York State Department of Transportation, Albany, NY 12232.

- Designed and developed transportation plans, traffic models, and planning methods. Directed staff of 10-15 analysts. 68 papers and reports.
- Adjunct Professor, Union College, 1976-79; Syracuse University, 1974.

PROFESSIONAL

- Active in Charlotte-area transportation issues. Board of Directors, Cabarrus County Chamber of Commerce, Charlotte Transit Advisory Committee, Cabarrus County Planning and Zoning Board.
- Active in national organizations. Numerous presentations on transportation issues. Transportation Research Board. Institute of Transportation Engineers. US Editor, *Transportation*. Professional Engineer, Maine (ret). Scholar, John Locke Foundation. Adjunct Scholar, Reason Foundation.

EDUCATION

- Ph.D., Civil Engineering, Northwestern University, 1973
- M.S., Civil Engineering, Northwestern University, 1967
- B.S., Civil Engineering, Duke University, 1966

RECOGNITION

- Walter P. Murphy Fellowship, Northwestern University, 1966-67
- Profiled in *Transportation Research News*, National Academy of Sciences, November 1978
- Profiled in the *Charlotte Observer*, November 1991
- Outstanding paper, Transportation Research Board, National Academy of Sciences, 1993
- Profiled in the *Charlotte Business Journal*, March 29, 1993
- Op-ed profile, *Charlotte Observer*, December 1, 1997
- Scholar, John Locke Foundation, 1999
- Scholar, Reason Foundation, 2005
- Member Emeritus, Transportation Research Board Committee on Travel Behavior, 2002

PUBLICATIONS

345 publications and reports. Selected recent:

- Comparative Performance of Canadian Provinces, 2008
- Comparative Performance of State Highway Systems, Reason Foundation, 2008
- Mega-region Growth and Transportation Readiness, Urban Land Institute, 2008
- Charlotte's Light Rail Line Assessment, John Locke Foundation, 2008
- Economic Impacts of Highways in South Carolina, SCDOT, 2007.
- National Study of Highway Congestion, Reason Foundation, Spring 2006.
- Performance of NC Transit Systems, John Locke Foundation, Spring 2006.
- Cost-Effectiveness of Highway Projects, John Locke Foundation, Spring 2005.
- Highways and Sprawl in North Carolina, John Locke Foundation, September 2003.
- Highways and Sprawl in Ohio, Buckeye Institute, January 2003.
- Guidelines for Highway Needs Studies, Transportation Quarterly, Spring 2003.
- Performance: A Point-counterpoint Exchange, Transportation Quarterly, Winter 2002.
- TEA 21 at Midpoint: Comparative Performance of State Highway Systems, February 2002.
- The Charlotte Region: A Distribution Powerhouse, Ventures Business Magazine, March 2001.
- North Carolina Highway Performance, John Locke Foundation, October 2000.
- New York State Highway Needs, Associated General Contractors of NY, 1999.
- Traffic Modeling System for Pocatello, ID, Bannock Planning Organization, May 1998.