

**The Transportation Center  
Northwestern University**

**Faculty and Researchers  
2007**

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Name	Academic/Research Specialties
<p><b>Jan D. Achenbach</b> Walter P. Murphy and Distinguished McCormick School Professor, Departments of Civil and Environmental Engineering; Mechanical Engineering, and Applied Mathematics; Director, Center for Quality Engineering and Failure Prevention</p>	<p>Airworthiness assurance of aircraft structures; ultrasonic methods in quantitative nondestructive evaluation; fracture mechanics</p>
<p><b>Henry Binford</b> Associate Professor, Department of History, Weinberg College of Arts and Sciences</p>	<p>Urban historian specializing in the evolution of subcommunities within cities; redevelopment of cities; history of transportation relating to growth of cities</p>
<p><b>David E. Boyce</b> Adjunct Professor, Civil and Environmental Engineering; Professor Emeritus of Transportation and Regional Science, Department of Civil and Materials Engineering, University of Illinois at Chicago</p>	<p>Urban travel and location forecasting models; transportation network analysis and modeling ; discrete choice theory and entropy-based methods</p>
<p><b>Ronald R. Braeutigam</b> Associate Provost for Undergraduate Education, Northwestern University; Harvey Kapnick Professor of Business Institutions and Professor of Economics, Weinberg College of Arts and Sciences</p>	<p>Applied microeconomic theory and industrial organization; regulatory economics</p>
<p><b>Fabián E. Bustamante</b> Assistant Professor, Department of Electrical Engineering and Computer Science, McCormick School of Engineering and Applied Science</p>	<p>Design, deployment and evaluation of large-scale distributed systems in both wide-area and mobile networks; experimental systems, in particular operating systems and distributed computing.</p>
<p><b>Clarke L. Caywood</b> Director, Graduate Program in Corporate Public Relations; Professor, Department of Integrated Marketing Communications, Medill School of Journalism</p>	<p>Marketing and communications; crisis management and communications; stakeholder relationship management; political and deceptive messages and advertising.</p>

**Sunil Chopra**

Senior Associate Dean, Curriculum and Teaching;  
IBM Distinguished Professor of Operations  
Management & Information Systems; Department of  
Managerial Economics & Decision Science,  
Kellogg School of Management

Supply chain management and  
operations; design of communication and  
distribution networks; supply chain risk

**James G. Conley**

Clinical Professor of Technology, Kellogg School of  
Management; Faculty Fellow, Institute for Design  
Engineering and Applications, McCormick School of  
Engineering and Applied Science

Product design and development  
technologies; intellectual property  
strategies; intellectual capital; innovation  
management

**Anne Coughlan**

Professor of Marketing  
Kellogg School of Management

Distribution channel management and  
design; pricing strategy; reverse channels  
for product returns; competitive strategy

**Matthew R. Cuddy**

Research Coordinator, The Transportation Center

Parking policy; land development  
regulation and transportation planning;  
transportation energy use

**Mark S. Daskin**

Bette and Neison Harris Professor of Teaching  
Excellence, Department of Industrial Engineering and  
Management Sciences, McCormick School of  
Engineering and Applied Science

Supply-chain analysis; application of  
operations research to transportation;  
integrated production and distribution  
models; network design and location  
problems; inventory planning

**Pablo Durango-Cohen**

Assistant Professor of Civil and Environmental  
Engineering, McCormick School of Engineering  
and Applied Science

Transportation infrastructure manage-  
ment; modeling and analysis of  
production control systems; capacity  
management; statistical performance  
modeling; contract analysis and design

**Ronald Eash**

Visiting Scholar and Research Associate  
The Transportation Center

Transportation planning applications  
geographic information systems; transit  
operations; data resources

**Aaron J. Gellman**

Professor of Transportation and Industrial  
Engineering, McCormick School of Engineering and  
Applied Science and the Transportation Center

Transportation management, economics  
and policy; aviation management;  
regulation; financial analysis; the  
management of technology and  
innovation; technology forecasting  
Macroeconomic theory; monetary theory;  
airline economics; airline management;  
airline history; airline customer  
experience

**Robert J. Gordon**

Stanley G. Harris Professor in the Social Sciences,  
Weinberg College of Arts and Sciences

Urban sustainability; brownfield and  
urban redevelopment; environmental  
impacts of transportation on ecological  
and human health; energy efficient  
technology

**Kimberly A. Gray**

Professor, Department of Civil and Environmental  
Engineering, McCormick School of Engineering &  
Applied Science

**Paul M. Hirsch**

James L. Allen Distinguished Professor of Strategy and Management and Organizations  
Kellogg School of Management

Organizational change; mass communication and the sociology of culture

**Tito Homem-De-Mello**

Associate Professor of Industrial Engineering and Management Sciences, McCormick School of Engineering & Applied Science

Stochastic modeling and analysis; optimization; stochastic optimization for revenue management

**Joel Horowitz**

Charles E. and Emma H. Morrison Professor of Economics, Weinberg College of Arts and Sciences

Econometrics, travel demand modeling, urban transportation, air quality

**Thomas N. Hubbard**

John L. & Helen Kellogg Professor of Management and Strategy, Kellogg School of Management

Industrial organization; trucking industry; economics of strategy; applied econometrics; economics of technology

**John C. Hudson**

Professor; Director, Geography Program; Associate Director, Environmental Sciences Program, Department of Anthropology, Weinberg College of Arts and Sciences

Cultural and physical geography of North America; biogeography; economic geography; cartography and mapping; geographic information systems

**Albert Hunter**

Professor of Sociology  
Weinberg College of Arts and Sciences

Transportation in urban areas; public policy; urban sociology; community; ethnicity, culture and literature; methods

**Arthur P. Hurter**

Professor Emeritus of Industrial Engineering and Management Sciences, McCormick School of Engineering and Applied Science

Logistics; applied microeconomic analysis; routing and risk analysis; facility locations; plant and equipment investment and replacement.

**Seyed Iravani**

Associate Professor of Industrial Engineering and Management Sciences, McCormick School of Engineering and Applied Science

Stochastic modeling and analysis; production and logistics; optimization of queueing systems; manufacturing and supply chain management; white collar work and service operations systems; analysis of integrated production and maintenance policies.

**Frank S. Koppelman**

Professor Emeritus of Civil and Environmental Engineering, McCormick School of Engineering And Applied Science

Travel demand modeling and prediction; traveler behavior and market research; yield management; urban, regional and intercity transportation planning; and development of advanced travel demand modeling concepts and methods

**Raymond J. Krizek**

Stanley F. Pepper Professor, Department of Civil & Environmental Engineering; Director, Master of Project Management Program, McCormick School of Engineering and Applied Science

Injectability & mechanical properties of grouted sands; disposal of waste slurries; problems involving soil-structure interaction; engineering behavior of dredged materials, and dynamic response of soils

**Bonnie Lindstrom**

Visiting Professor, Sociology Department, Weinberg College of Arts and Sciences

Urban sociology; housing; transportation and planning

**Hani S. Mahmassani**

William A. Patterson Distinguished Professor of Transportation, McCormick School of Engineering and Applied Science

Dynamic traffic system management; network modeling and optimization; dynamics of user behavior and telematics.

**Therese McGuire**

Director, Guthrie Center for Real Estate Research; Beatrice Foods Professor in Strategic Management, Kellogg School of Management

State and local public finance, fiscal decentralization, property tax limitations, education finance, and regional economic development

**Leon N. Moses**

Professor Emeritus of Economics, Weinberg College of Arts and Sciences

Applied microeconomic analysis; logistics and transportation economics; economics of regulation safety and risk; urban and regional economics

**Barry L. Nelson**

Charles Deering McCormick Professor, Department of Industrial Engineering & Management Sciences, McCormick School of Engineering & Applied Science

Computer simulation of dynamic, stochastic systems; design and analysis of simulation experiments

**Yu (Marco) Nie**

Louis Berger Junior Assistant Professor of Civil and Environmental Engineering, McCormick School of Engineering and Applied Science

Network optimization, traffic flow theory and traffic simulation.

**John C. Panzar**

Louis W. Menk Professor of Economics, Weinberg College of Arts and Sciences

Theoretical and policy issues relating to network industries (telecommunication, electric transport, air transport and postal services); industrial organization; regulatory economics; applied microeconomic theory

**Kathryn Reid**

Research Assistant Professor, Center for Sleep and Circadian Biology, Weinberg College of Arts and Sciences

Impact of sleep loss and circadian disruption on human performance; health and safety with emphasis on the impact of shiftwork

**Juan Onésimo Sandoval**

Assistant Professor of Sociology, Weinberg College of Arts and Sciences

Urban sociology; poverty; welfare-to-work transportation alternatives; race/ethnic relations; statistical methods; social policy; sociology of transportation

**Ian Savage**

Assistant Chair, Department of Economics; College Lecturer, Weinberg College of Arts and Sciences

Transportation safety; transportation economics; urban transit

**R. Canan Savaskan**

Assistant Professor of Managerial Economics and Decision Sciences, Kellogg School of Management

Supply chain management; incentives in decentralized supply chains; reverse logistics; quality management and interface between manufacturing and marketing decisions; closed loop supply chain models.

**Joseph L. Schofer**

Associate Dean for Faculty Affairs; Professor of Civil and Environmental Engineering; McCormick School of Engineering and Applied Science

Urban transportation policy planning; data information and decision making in transportation; traveler behavior and market research; intelligent transportation systems; pedestrian and motor vehicle safety

**David Schulz**

Director, Infrastructure Technology Institute (ITI); Adjunct Professor of Civil and Environmental Engineering, McCormick School of Engineering and Applied Sciences

Public infrastructure management; land use and infrastructure; infrastructure project implementation

**Karen Smilowitz**

William A. Patterson Junior Professor of Transportation; Associate Professor, Department of Industrial Engineering and Management Sciences, McCormick School of Engineering and Applied Science

Design and operations of logistics network; traffic flow theory; infrastructure management

**Fred W. Turek**

Director, Center for Sleep and Circadian Biology ; Charles E. and Emma H. Morrison Professor of Biology, Department of Neurobiology & Physiology, Weinberg College of Arts and Sciences

Investigation of circadian rhythms and their importance to human health, safety, performance and productivity; relationship between abnormal sleep-wake cycles on fatigue and alertness in the workplace and transportation industry.

**Jan A. Van Mieghem**

Harold L. Stuart Professor of Managerial Economics, Professor and Chair, Department of Managerial Economics & Decision Science, Kellogg School of Management

Operations management and strategy; supply-chain management and analysis; management and investment under uncertainty, e.g. pricing and dynamic control of stochastic processing networks

**Michael D. Whinston**

Robert E. and Emily H. King Professor of Business Institutions, Department of Economics Weinberg College of Arts and Sciences

Industrial organization; antitrust and regulation; incentives; microeconomic theory; and game theory