SPECIAL SYMPOSIUM AND BOOK LAUNCH

Forecasting Urban Travel: Past, Present and Future

Thursday, October 22, 2015
1:30 p.m. to 4:30 p.m.

Ver Steeg Lounge, Northwestern University Library
1970 N. Campus Drive
Evanston, IL 60208
About the Book

*Forecasting Urban Travel: Past, Present and Future* presents in a non-mathematical way the evolution of methods, models and theories underpinning travel forecasts and policy analysis, from the early urban transportation studies of the 1950s to current applications throughout the urbanized world. From original documents, correspondence and interviews, especially from the United States and the United Kingdom, the authors seek to capture the spirit and problems faced in different eras, as changing information requirements, computing technology and planning objectives conditioned the nature of forecasts.

With over 1,000 references, the book charts the key ideas relating to land use, travel demand, network costs and flows, and their interactions, from both research and practice to the present states of the art. The authors examine the widening scope and variety of models for analysing and forecasting personal travel and goods movement, identifying contributions from economics, psychology, geography, regional science, operational research, transportation engineering and mathematics. Finally, they offer their views of the future directions and requirements facing the field.

Offering a historical presentation of urban forecasting models covering six decades, accessible to a wide range of students, researchers and planners, this book will be of great interest to undergraduate and graduate students in transportation courses in civil engineering, economics, geography, regional science and planning. Through its discussion of critiques and missed opportunities as travel demand, network and land-use transportation models evolved, the book will also serve as a valuable resource for teachers, academic researchers and practitioners in travel behaviour and forecasting.

About the Authors

**David Boyce** is Professor Emeritus of Transportation and Regional Science at the University of Illinois at Chicago and an adjunct professor at Northwestern University. His early monograph, Metropolitan Plan Making, critically examined the experience with the land use and travel forecasting models during the 1960s. Boyce has served as a faculty member at the University of Pennsylvania, the University of Illinois at Urbana-Champaign, and the University of Illinois at Chicago. He is a Fellow of the Regional Science Association International, the Institute for Operations Research and the Management Sciences, and the American Society of Civil Engineers, and is an Emeritus Member of the Transportation Networks Committee of the Transportation Research Board. He has published over 190 journal articles, books, book chapters and reports.

**Huw Williams** holds an Emeritus professorship in the School of Planning and Geography at the University of Cardiff, Wales. His first degree and doctorate were in physics but, after taking a Masters degree in Operational Research, moved into Transportation and Geographical Research. His current research includes the spatial analysis of transport and health systems. Other research interests include Transportation Models; Transport and the Environment; Healthy Cities; Health Inequalities; Health Impact Assessment; and Spatial Analysis of Health Systems.
Program

Welcome and Introduction  1:30 p.m.
Sarah Prichard  Dean, Northwestern University Library
Roberto Sarmiento  Head, Northwestern University Transportation Library

Opening Remarks  1:40 p.m.
Hani Mahmassani  William A. Patterson Distinguished Chair in Transportation; Director, Northwestern University Transportation Center

Remarks from the Authors  1:45 p.m.
David Boyce  Professor Emeritus of Transportation and Regional Science, University of Illinois at Chicago; Adjunct Professor, Northwestern University
Huw Williams  Emeritus Professor of Transport and Spatial Analysis, Cardiff University

Break  2:30 p.m.

Panel Discussion  3:00 p.m.
The Impact of Travel Demand Forecasting
Anna Nagurney  John F. Smith Memorial Professor of Operations and Information Management, University of Massachusetts, Amherst
Ram M. Pendyala  Frederick R. Dickerson Chair and Professor of Transportation, Georgia Institute of Technology
Kermit Wies  Former Deputy Executive Director, Chicago Metropolitan Agency for Planning

Reception  4:30 p.m.
About the Transportation Center

The Northwestern University Transportation Center is one of the world’s leading interdisciplinary education and research institutions, serving industry, government, and the public. Founded in 1954 to make substantive and enduring contributions to the movement of materials, people, energy, and information, the NUTC stands at the forefront of transportation research and education, bringing together academic researchers, students, and business affiliates in open exploration of transportation and supply chain operations. In so doing, the Center aims to influence national and international transportation policy, management, and technological developments, with the goal of making transportation and supply chain operations more productive, efficient, safe, secure, environmentally friendly, and socially beneficial.

About the Transportation Library

The Northwestern University Transportation Library was founded in 1958 to support the curricula and research programs of the Transportation Center and the Center for Public Safety. With more than 500,000 items, the Library is one of the largest information centers of its kind in the world, encompassing information on all transportation modalities, including air, rail, highway, pipeline, urban transport, and logistics. In addition, its collection of environmental impact statements is one of the most complete in the world.