

NEWS



TRANSPORTATION RESEARCH BOARD

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PAPER STUDYING THE EFFECTS OF THE BUILT ENVIRONMENT ON MOTORIZED AND NON-MOTORIZED TRAVEL WINS PYKE JOHNSON AWARD

The 2008 recipients of the Transportation Research Board's (TRB's) Pyke Johnson Award are Jessica Y. Guo of the University of Wisconsin, Madison; and Chandra R. Bhat and Rachael B. Copperman, both of the University of Texas, Austin. The Pyke Johnson Award is presented annually by TRB for the outstanding paper published in the field of transportation systems planning and administration. The winning paper—*“Effect of the Built Environment on Motorized and Non-Motorized Trip Making: Substitutive Complementary, or Synergistic?”*—is available on the Compendium of Papers CD-ROM from the 86th Annual Meeting. The award, which honors the 23rd Chairman of the Board's Executive Committee, will be presented on January 14, 2008, at the Thomas B. Deen Distinguished Lecture and Presentation of Outstanding Paper Awards during the Board's 87th Annual Meeting.

With limited public resources available to improve a community's health as well as the performance of its transportation system, the goal of the study was to (a) assess the expected impact of built environment improvements on the substitutive, complementary, or synergistic use of motorized and non-motorized modes; and (b) examine how the effects of built environment improvements differ for different population groups and for different travel purposes. The results suggest that rather than the built environment, it is factors such as increased bike way

density and street network connectivity that have the potential of promoting more non-motorized travel as a supplement to an individual's existing motorized trips. In addition, improvements to the built environment should be sensitive to the local residents' characteristics.

Jessica Guo is an Assistant Professor of Civil and Environmental Engineering at the University of Wisconsin, Madison. She holds a bachelor of science degree with honors in computer science from the University of Melbourne, a master of business in transport research from the Royal Melbourne Institute of Technology, and a Ph.D. in transportation engineering from the University of Texas at Austin. Active in TRB, Guo has research and professional interests in the areas of travel demand forecasting and simulation, multimodal transportation planning, and geospatial analysis. She was the 2004 recipient of the Council of University Transportation Centers Charley V. Wootan Award for Outstanding Ph.D. Dissertation in Transportation Policy and Planning.

Chandra Bhat is the Adnan Abou-Ayyash Centennial Professor in Transportation Engineering in the Department of Civil, Architectural and Environmental Engineering at the University of Texas at Austin. A leading expert in the area of travel demand modeling and travel behavior analysis, his research interests include land-use and travel demand modeling, activity-based travel modeling, policy evaluation of the effect of transportation control and congestion pricing measures on traffic congestion and mobile-source emissions, marketing research of competitive positioning strategies for transportation services, use of non-motorized modes of travel, and physical health and transportation. Bhat's methodological research results are referenced in the economics, marketing, and transportation fields, and in econometric textbooks and software packages. He has authored several book chapters on improved methods for choice modeling in general and land use-travel demand modeling in particular. Bhat, who also serves on the editorial boards of *Transportation* and the *International Journal of Operations and Quantitative Management*, has been active in TRB for many years and currently chairs the Transportation Demand Forecasting Committee. He has been honored with several awards including the University of Texas' Lockheed Martin Aeronautics Company Award for Excellence in Engineering Teaching and the Outstanding Graduate Teaching Award.

Rachel Copperman is an Eisenhower Graduate Transportation Fellow and a Ph.D. student in transportation engineering at the University of Texas at Austin. She holds a B.S. degree in systems engineering from the University of Virginia and an M.S.E. in civil engineering from the University of Texas at Austin.

More than 10,000 policy makers, administrators, practitioners, researchers, and representatives of government, industry, and academic institutions are expected to attend the Transportation Research Board (TRB) 87th Annual Meeting, in Washington, DC, January 13-17, 2008. The meeting, held at the Marriott Wardman Park, Omni Shoreham, and Hilton Washington hotels, includes more than 3,000 presentations in 600 sessions, 85 workshops, and 400 TRB committee meetings covering all aspects of transportation.

The mission of the Transportation Research Board is to provide leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal. A major focal point of TRB's activities, the Annual Meeting provides an opportunity for transportation professionals from all over the world to exchange information of common interest.

Organized in 1920, TRB is a division of the National Academies, which include the National Academy of Sciences, National Academy of Engineering, Institute of Medicine, and National Research Council. The nation turns to the National Academies for independent, objective advice on issues that affect people's lives worldwide.

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