

NEWS



TRANSPORTATION RESEARCH BOARD

500 Fifth Street, NW
Washington, DC 20001

For Immediate Release
News Release

Date: January 19, 2011
Contact: Russell Houston
(202) 334-3252
rhouston@nas.edu

PAPER ON PEDESTRIAN DELAY MODELS WINS TRB'S MICKLE AWARD

"Mixed-Priority Pedestrian Delay Models at Single-Lane Roundabouts" is the winner of the Transportation Research Board's (TRB's) 2011 D. Grant Mickle Award for the outstanding paper in the field of operation, safety, and maintenance of transportation facilities. The award, named for the Board's Executive Director from 1964 to 1966, will be presented on January 24, 2011, at the Thomas B. Deen Distinguished Lecture and Presentation of Outstanding Paper Awards during the Board's 90th Annual Meeting. The authors are Bastian J. Schroeder and Nagui M. Roupail, both of North Carolina State University (NCSU). The award-winning paper has been published in the *Transportation Research Record: Journal of the Transportation Research Board*, No. 2182.

The award-winning paper explores the use of behavioral crossing data measured in controlled pedestrian crossings using sight-impaired pedestrians to develop pedestrian delay models at single-lane roundabouts. The authors note that even though the use of this special population of pedestrians is relevant to the ongoing debate of the accessibility of modern roundabouts to sight-impaired pedestrians, the results have further application to the general

-more-

evaluation of pedestrian facilities at roundabouts. The paper also examines how agencies can estimate the underlying probability parameters for existing or proposed roundabouts using empirical and theoretical approaches, and how pedestrian crossing treatments can be used in the context of the model to reduce average pedestrian delay.

Bastian Schroeder is a Senior Research Associate in the Highway Systems Group at NCSU's Institute for Transportation Research and Education and an Adjunct Assistant Professor in the Department of Civil, Construction, and Environmental Engineering. His area of expertise is in traffic operations on surface streets and freeways, simulation analysis, pedestrian-bicycle operations, accessibility issues, and specialized field data collection. Schroeder has more than five years of experience in transportation engineering research. He is active in TRB and is the principal author of a forthcoming National Cooperative Highway Research Program publication. He holds two B.S. degrees in civil engineering and multi-disciplinary studies, as well as a master's degree and Ph.D. in civil engineering, all from NCSU. Schroeder is a past recipient of an Eisenhower Fellowship and was also an ENO Foundation Transportation Fellow.

Nagui Roupail is Director of the Institute for Transportation Research and Education at NCSU and a Professor in the Department of Civil, Construction, and Environmental Engineering. In an academic career of 30 years, he previously served both as an Assistant and Associate Professor at the University of Illinois in Chicago. Roupail is recognized internationally as a researcher in highway capacity and operations, traffic simulation and intelligent transport systems, and the interface of traffic flow and vehicle emissions. He is also an author and publisher. Roupail holds a B.S. degree in civil engineering from Cairo University, and M.S. and Ph.D. degrees from the Ohio State University.

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) 90th Annual Meeting, in Washington, DC, January 23-27, 2011. The meeting, held at the Marriott Wardman Park, Omni Shoreham, and Hilton Washington hotels, includes more than 4,000 presentations in 650 sessions and workshops 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. TRB facilitates the sharing of information on transportation practice and policy by researchers and practitioners; stimulates research and offers research management services that promote technical excellence; provides expert advice on transportation policy and programs; and disseminates research results broadly and encourages their implementation. 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.