WEBINAR: "Horizontal Curve Safety Performance Evaluation Based on The Naturalistic Driving Study Lane Position Data"

Date: August 7th 12-1PM ET. Registration is not required. The webinar will be recorded.

This research project was conducted under the SHRP 2 Naturalistic Driving Study Pooled Fund: Advancing Implementable Solutions, TPF-5(361). TPF - Study Detail (pooledfund.org).

Transportation practitioners need resources to evaluate roadway design based on safety performance. This research project used the Roadway Information Database and the Second Strategic Highway Research Program Naturalistic Driving Study data to estimate the safety effect of elements that influence driving behavior on rural, undivided, two-lane horizontal curves. Available data included 3,292 curves and 150,233 traversals, which required a significant data processing effort to conduct data cleaning and quality assessment. From the safety surrogates evaluated and methods implemented, lane position provided the most consistent and statistically significant results. The researchers modeled centerline and edge-line encroachment events with the negative binomial regression modeling approach, using curve geometry as the predictor component. Encroachment estimates were associated with observed crashes from State data to convert encroachments to crashes. Predictor variables, such as curve radius, showed a decreasing trend in predicted crashes as the curve radius increased. Similarly, as shoulder or lane width increased, predicted crashes decreased. The researchers used crash estimates derived from safety surrogates to develop an analytical tool for practitioners designing curves.

The webinar will be presented by Andrea R. Bill (University of Wisconsin-Madison).

Ms. Andrea R. Bill has over 17 years of experience in transportation engineering, traffic safety, traffic safety data and systems, and training professionals. Ms. Bill currently serves as the Associate Director of the Traffic Operations and Safety Laboratory, Director of the Wisconsin Local Technical Assistance Program (LTAP), and Manager of the Eastern Tribal Technical Assistance Program (TTAP) Center at the University of Wisconsin-Madison. Ms. Bill has led and managed over 50 traffic safety research projects for the Wisconsin DOT, Minnesota DOT, Iowa DOT, NCHRP, NCHRP-IDEA, National Institute of Justice, Federal Highway Administration, among others. Ms. Bill is a member-at-large of the Board of Association of Transportation Safety Information Professionals (ATSIP), as well as the TRB Committees on Transportation Safety Management Systems (ACS10) and Human Factors of Infrastructure Design and Operations (ACH40).

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