

# WORKSHOP 1: WORKSHOP ON NEW DIRECTIONS IN ROAD SAFETY

## MODELING

Wednesday, June 2<sup>nd</sup>

The workshop will be held on June 2, 2010, in conjunction with the 4th International Symposium on Highway Design. The workshop utilizes an outcome of another workshop on future directions in highway crash data modeling held in Washington, D.C., in November 20, 2008, sponsored by TRB and FHWA. The 2008 workshop identified needed directions in safety modeling including applications of structural modeling and surrogate measures to safety modeling together with more emphasis on driver behavior and improved evaluation of safety-related interventions. This workshop will continue exploration of these emphasis areas.

The primary objectives of the 2010 workshop are:

1. Advance the discussion on the safety modeling with the emphasis on crash causality and the role of human behavior to build better models suitable for safety consideration in road design and safety management.
2. Expose a larger audience to the new opportunities brought by the advances in research methodologies and availability of new data.
3. Build a consensus among researchers, road administrators, and model users about the identified directions for research.

Andrew Tarko and Richard J. Porter, Coordinators

9:00 am	<b>Workshop objectives and program</b> A. Tarko, <i>Purdue University, USA</i> R. J. Porter, <i>University of Utah, USA</i>
9:10 am	<b>Introduction to the Highway Safety Manual &amp; Needs in Safety Modeling</b> Ray Krammes, <i>Federal Highway Administration, USA</i>
9:25 am	<b>Human factors and road safety: To err is human, to forgive, design</b> Alison Smiley, <i>Human Factors North Inc., Canada</i>
9:50 am	<b>Questions</b> R. J. Porter, <i>University of Utah, USA</i>
10:05 am	<b>“Structural” (aka Mechanistic/Empirical) Models in Traffic Safety</b> Gary Davis, <i>University of Minnesota, USA</i>
10:30 am	<b>Surrogate Events and Causal Safety Models</b> Andrew Tarko, <i>Purdue University, USA</i>
10:55 am	<b>Discussion</b> R. J. Porter, <i>University of Utah, USA</i>
11:20 am	<b>Coffee Break</b>
11:40 am	<b>Roadside data via video processing, analysis of safety</b> Ase Svensson, <i>Lund University, Sweden</i>
12:05 pm	<b>Analyses Using Naturalistic Driving Data: SHRP2 S01(A)</b> Gary A. Davis, <i>University of Minnesota, USA</i> John Hourdos, <i>University of Minnesota, USA</i>
12:30 pm	<b>Driving simulators – an opportunity for more insight</b> Juan Francisco Dols Ruiz, <i>Universidad Politécnic de Valencia, Spain</i> Ana María Pérez Zuriaga, <i>Universidad Politécnic de Valencia, Spain</i>
12:55 pm	<b>Discussion</b> R. J. Porter, <i>University of Utah, USA</i>
1:20 pm	<b>Closing remarks</b> R. J. Porter, <i>University of Utah, USA</i> A. Tarko, <i>Purdue University, USA</i>
1:30 pm	<b>Adjourn</b>