

10th SHRP 2 Safety Data Symposium: From Analysis to Results
Program
October 6, 2017

Transportation Research Board
Keck Center of the National Academies
Room 100
500 Fifth Street, NW
Washington, DC 20001

7:30	Registration and light breakfast
------	----------------------------------

8:30	Welcoming Remarks Neil Pedersen, TRB
8:45	Symposium Objectives & SHRP 2 Safety Data Program Update Ann Brach, TRB

9:00	Session 1: Driver Distraction Moderator: Bruce Simons-Morton, National Institutes of Health <ul style="list-style-type: none">• The NEST dataset: Description and preliminary results Huei-Yen Winnie Chen, Birsen Donmez, Martina Risteska University of Toronto• A study on the dynamics of driver vision transitions and its impacts on vehicle safety Sehyun Tak, Hwasoo Yeo, Yeeun Kim, Seongjin Choi Korea Advanced Institute of Science and Technology• Does an Interaction Between Last Glance Duration and Closure Rate Cause Rear-End Crashes? Richard Young Driving Safety Consulting, LLC
------	--

10:15	Coffee break
-------	--------------

10:30	Session 2: Speed Moderator: Joanne Harbluk, Transport Canada <ul style="list-style-type: none">• A Framework for Identifying Speed-Related Crashes in the SHRP 2 NDS Driving Event Dataset Christian Richard, Randolph Atkins, Joonbum Lee, James Brown Battelle, National Highway Traffic Safety Administration• Effect of Speed Variance on Crash Frequency on Freeways using SHRP 2 Safety Database Jianqing Wu, Hao Xu University of Nevada, Reno• Speed Prediction in Work Zones Using the SHRP 2 Naturalistic Driving Study Data Shauna Hallmark, Amrita Goswamy, Omar Smadi, Sue Chrysler Institute for Transportation at Iowa State University, Texas Transportation Institute
-------	---

11:45	Lunch More room available in Keck 101, 103, 105, 106
-------	---

Program (Continued)

12:45 **Session 3: Special Topics**

Moderator: Charles Fay, Federal Highway Administration

- **Motorcycle Crash Patterns in Florida**
Wei Zhang, Lin Xiao
FHWA, National Research Council
 - **The Association Between Secondary Task Engagement and Crash Risk by Age Group**
Pnina Gershon, Johnathon P. Ehsani, Sheila G. Klauer, Tom Dingus, Bruce Simons-Morton
National Institutes of Health, Johns Hopkins Bloomberg School of Public Health, Virginia Tech Transportation Institute
 - **Computer Vision Tools for Automated Feature Extraction in Naturalistic Driving Studies**
Thomas Karnowski
Oak Ridge National Laboratory
-

2:00 **Session 4: Data Analysis & Methodologies**

Moderator: Reginald Souleyrette, University of Kentucky

- **Using principal components analysis to characterize safety in work zones**
Carol Flannagan, Andrew Leslie, Selpi Selpi
University of Michigan, Chalmers University of Technology
 - **Extracting Association Rules from the SHRP 2 Naturalistic Driving Data: A Market Basket Analysis**
Saleh Mousa, Sherif Ishak, Osama Osman
Louisiana State University
 - **Development & Validation of Post-Processing Methods for the SHRP 2 MASK Head Pose Data**
Aaron Dean, David Nelson, Pasi Lautala, Myoungsoon Jeon
Michigan Technological University
 - **Toward Naturalistic Driving Crash Representativeness**
Ronald Knipling
Safety for the Long Haul, Inc.
-

3:35 Coffee break

3:45 **Session 5: Roadway Features**

Moderator: Nicole Oneyear, Iowa State University

- **Driver Behavior Near Urban Interchanges with Closely Spaced Ramps**
Jeffrey Taylor, Juan Medina, R. J. Porter
University of Utah, VHB
 - **Using NDS data to evaluate driver behavior at highway-rail grade crossings**
Pasi Lautala, David Nelson, Myoungsoon Jeon, Modeste Muhire
Michigan Technological University
 - **Impact of Deceleration Lane Length on Vehicles' Speed and Deceleration Rates Based on NDS Data**
Huaguo Zhou, Dan Xu
Auburn University
-

5:00 **Closing Remarks**

James P. Hall, University of Illinois Springfield

5:15 **Networking Reception**

Keck Atrium, 3rd Floor

7:00 **Close**
