

**6<sup>th</sup> International Driving Symposium on Human Factors in Driver  
Assessment, Training, and Vehicle Design  
June 27-30, 2011**

**Monday, June 27, 2011**

**2:00 pm – 6:00 pm**            **Early Registration**  
Outside Grand Sierra Ballroom

**6:00 pm – 8:30 pm**            **Welcome Reception**  
Montagna Restaurant & Decks

**Tuesday, June 28, 2011**

**7:00 am – 4:00 pm**            **Registration Open**  
Outside Grand Sierra Ballroom

**7:00 am – 8:30 am**            **Breakfast Buffet**  
Outside Grand Sierra Ballroom

**8:30 am – 9:30 am**            **NISSAN DISTINGUISHED KEYNOTE LECTURE**  
Grand Sierra Ballroom A&B

**Road Deaths and the Next U.S. Presidential Election (01)**  
Professor Donald Redelmeier  
University of Toronto, *Canada*

**9:30 am – 10:00 am**            **BREAK**

**Session 1 – Lectures**  
**Driver Support Systems**  
**10:00 am – 11:30 am**  
Grand Sierra Ballroom A&B

Session Chair: Maria Rimini-Doering

**10:00 am**            **Fully-Automated Driving: The Road to Future Vehicles (02)**  
A. Hamish Jamson, Natasha Merat, Oliver Carsten, Frank Lai (University of Leeds – *UK*)

**10:20 am**            **Assessing Driver Behavioral Adaptation to a Rural Intersection Driver Support System (03)**  
Michael Manser, Janet Creaser (HumanFIRST, University of Minnesota)

**10:40 am**            **Serialization of Vehicle Control at Intersections in Older Drivers (04)**  
Erwin Boer (Entropy Control, Inc.), Diane Cleij (Delft University of Technology – *The Netherlands*), Jeffrey Dawson, Matthew Rizzo (University of Iowa)

**11:00 am**            **A Look in the (Driver's) Mirror: Use of Portable Electronic Devices While Driving by the Driver Safety Research Community (05)**  
Neil Lerner, Emanuel Robinson (Westat)

**Tuesday, June 28, 2011**

**11:30 am – 1:30 pm**

**HONDA LUNCHEON & OUTSTANDING STUDENT PAPER AWARDS CEREMONY**

Sun Plaza Deck

Sponsored by  
**Honda R&D Americas, Inc.**

Awards presented by  
**Mr. Charles Allen**  
Senior Vice President & General Manager  
Honda R&D Americas, Inc.

*The Honda Outstanding Student Paper Award winners will be announced at the luncheon*

**Session 2 – Lectures  
Fatigue & Impairment**

**1:30 pm – 3:00 pm**

Grand Sierra Ballroom A&B

Session Chair: Richard Young

**1:30 pm**

**Assessing Drivers' Fatigue State Under Real Traffic Conditions Using EEG Alpha Spindles (06)**

Michael Schrauf (Daimler AG; University of Regensburg – *Germany*), Michael Simon (University of Tübingen – *Germany*), Eike Schmidt (Bundesanstalt für Straßenwesen – *Germany*), Wilhelm Kincses (Daimler AG – *Germany*)

**1:50 pm**

**Microsleep Episodes and Related Crashes During Overnight Driving Simulations (07)**

Martin Golz (University of Applied Sciences Schmalkalden; Institute for System Analysis and Applied Numerics – *Germany*), David Sommer (University of Applied Sciences Schmalkalden – *Germany*), Jarek Krajewski (University of Wuppertal – *Germany*), Udo Trutschel (Circadian Technologies, Inc.; Institute for System Analysis and Applied Numerics – *Germany*), Dave Edwards (Caterpillar, Inc.)

**2:10 pm**

**Lateral Control in a Driving Simulator: Correlations with Neuropsychological Tests and On-Road Safety Errors (08)**

Amy Johnson, Jeffrey Dawson, Matthew Rizzo (University of Iowa)

**2:30 pm**

**Dexamphetamine and Alcohol Effects in Simulated Driving and Cognitive Task Performance (09)**

Marieke Martens, Ries Simons (TNO Human Factors – *The Netherlands*), Jan Ramaekers (University of Maastricht – *The Netherlands*)

**Tuesday, June 28, 2011**

**Session 3 – Poster Session A**

**3:00 pm – 4:30 pm**

Grand Sierra Ballroom C&D

**Effects of Scheduling on Sleep and Performance in Commercial Motorcoach Operations (10)** Lora Wu, Gregory Belenky (Washington State University)

**The Influence of Passenger-Driver Interaction on Young Drivers (11)** Ryan Toxopeus, Robert Ramkhalawansingh, Lana Trick (University of Guelph – *Canada*)

**Allocating Visual Attention: How Relevance to Driving Impacts Attention when Drivers are Distracted (12)** Teena Garrison (Mississippi State University)

**Self-Rated Distress Related to Medical Conditions is Associated with Future Crashes or Traffic Offences in Older Drivers (13)** Petra Hoggarth (Van der Veer Institute for Parkinson's & Brain Research; University of Canterbury – *New Zealand*), Carrie Innes (Van der Veer Institute for Parkinson's & Brain Research; Christchurch Hospital – *New Zealand*), John Dalrymple-Alford (Van der Veer Institute for Parkinson's & Brain Research; University of Canterbury; University of Otago – *New Zealand*), Richard Jones (Van der Veer Institute for Parkinson's & Brain Research; University of Canterbury; Christchurch Hospital; University of Otago – *New Zealand*)

**Impact of Cognitive Workload on Physiological Arousal and Performance in Younger and Older Drivers (14)** Joonwoo Son (Daegu Gyeongbuk Institute of Science & Technology – *South Korea*), Bruce Mehler (Massachusetts Institute of Technology [MIT] AgeLab; New England University Transportation Center [UTC]), Taeyoung Lee, Yunsuk Park (Daegu Gyeongbuk Institute of Science & Technology – *South Korea*), Joseph Coughlin, Bryan Reimer (MIT AgeLab; New England UTC)

**Making Auditory Warning Signals Informative: Examining the Acceptance of Auditory Icons as Warning Signals in Trucks (15)** Johan Fagerlönn (Interactive Institute, Sonic Studio – *Sweden*)

**Exploring Factors that Influence Vehicle Purchase Decisions of Older Drivers: Where Does Safety Fit? (16)** Jenny Zhan, Brenda Vrkljan (McMaster University – *Canada*)

**The Development of a Cognitive Skills Training to Support Driver Education: Experimental Validation of Theoretical Underpinnings (17)** Tibor Petzoldt, Thomas Weiß, Josef Krems, Maria Bannert (Chemnitz University of Technology – *Germany*)

**A Schema of Possible Negative Effects of Advanced Driver Assistant Systems (18)** Angela Mahr, Christian Müller (German Research Center for Artificial Intelligence – *Germany*)

**Subjective Data Regarding Changes in Geometric Field of View During a Speed-Matching Task (19)** Richard Goodenough, Johnell Brooks (Clemson University), Douglas Evans (DriveSafety, Inc.)

**Driver Opinions of Simulator-Based Commercial Driver Training (20)** Justin Morgan, Scott Tidwell, Myra Blanco, Alejandra Medina, Richard Hanowski (Virginia Tech Transportation Institute), Olu Ajayi (Federal Motor Carrier Safety Administration)

**An Analysis of Driver Reactions to Tire Failures Simulated with the National Advanced Driving Simulator (NADS) (21)** Robert Rucoba, Lee Carr, Robert Liebbe, Amanda Duran (Carr Engineering, Inc.)

**Attentional Tracking of Multiple Vehicles in a Highway Driving Scenario (22)** Martin Lochner, Lana Trick (University of Guelph – *Canada*)

**Potential Benefits of a Concurrent Verbal Task when Feeling Fatigued Due to Monotonous Driving Conditions (23)** Mark Chan, Paul Atchley (University of Kansas)

**Developing a Driver-Centric Roadway Classification System with Multidimensional Scaling (24)** Stacy Balk, Vaughan Inman, William Perez (Science Applications International Corporation)

**Driving with Para-Central Visual Field Loss: Pilot Study (25)** Matt Bronstad, Alex Bowers, Amanda Albu, Robert Goldstein, Eli Peli (Schepens Eye Research Institute, Harvard Medical School)

**PERCLOS: An Alertness Measure of the Past (26)** Udo Trutschel, Bill Sirois (Circadian Technologies, Inc.), David Sommer, Martin Golz (University of Applied Sciences Schmalkalden – *Germany*), Dave Edwards (Caterpillar, Inc.)

**The Effect of Visual Clutter on Driver Eye Glance Behavior (27)** William Perez, Mary Anne Bertola (Science Applications International Corporation)

**Long-Term Effects of Hazard Anticipation Training on Novice Drivers Measured on the Open Road (28)** Thalia Taylor, Kathleen Masserang (University of Massachusetts, Amherst), Anuj Pradhan (National Institute of Child Health and Human Development), Gautam Divekar, Siby Samuel, Jeffrey Muttart, Alexander Pollatsek, Donald Fisher (University of Massachusetts, Amherst)

**Investigating HUDs for the Presentation of Choice Lists in Car Navigation Systems (29)** Garrett Weinberg, Bret Harsham (Mitsubishi Electric Research Labs), Zeljko Medenica (University of New Hampshire)

**Detecting Transfer of Training Through Simulator Scenario Design: A Novice Driver Training Study (30)** Wade Allen, George Park, Scott Terrace, John Grant (Systems Technology, Inc.)

**Cognitive and Psychomotor Correlates of Hazard Perception Ability and Risky Driving (31)** Nebi Sümer (Middle East Technical University – *Turkey*)

**Attention Factors Compared to Other Predictors of Simulated Driving Performance Across Age Groups (32)** Richard Backs, Stephanie Tuttle, Davis Conley, Jr., Nicholas Cassavaugh (Central Michigan University)

**A Driving Simulator Study to Examine the Role of Vehicle Acoustics on Drivers' Speed Perception (33)** Natasha Merat, Hamish Jamson (University of Leeds – *UK*)

**Driver Fitness in Patients with Cognitive Impairment and Glaucoma (34)** Peter Rosen (University of California, San Diego; DrivingLab, LLC), Abiodun Akinwuntan, Jerry Wachtel (DrivingLab, LLC), Erwin Boer, Robert Weinreb, Felipe Medeiros (University of California, San Diego)

**The United States Version of the Stroke Drivers' Screening Assessment Battery: A Report of Preliminary Findings (35)** Abiodun Akinwuntan, Diana Gantt, Gina Gibson, Kurt Kimmons, Valerie Ross (Georgia Health Sciences University), Peter Rosen (Sharp Rees-Stealy Medical Group; University of California, San Diego), Jerry Wachtel (Veridian Group, Inc.)

**Wednesday, June 29, 2011**

**7:00 am – 4:00 pm**                      **Registration Open**  
Outside Grand Sierra Ballroom

**7:00 am – 8:30 am**                      **Breakfast Buffet**  
Outside Grand Sierra Ballroom

**Session 4 – Lectures**  
**Neurological Impairment & Fitness to Drive**  
**8:30 am – 10:00 am**  
Grand Sierra Ballroom A&B

Session Chair: Tom Marcotte

**8:30 am**                      **Driver Rehabilitation in Parkinson’s Disease Using a Driving Simulator: A Pilot Study (36)**  
Ergun Uc (University of Iowa; Veterans Affairs Medical Center of Iowa City), Matthew Rizzo, Steven Anderson, Jessica Lawrence, Jeffrey Dawson (University of Iowa)

**8:50 am**                      **Longitudinal Two-Year Follow-Up of Updating and Flexibility Functions in Drivers with Parkinson’s Disease: Preliminary Results (37)**  
Maud Ranchet, Laurence Paire-Ficout (French Institute of Science and Technology for Transport, Development and Networks [IFSTTAR – INRETS], LESCOT; Université de Lyon – *France*), Emmanuel Broussolle (Université Lyon I; Centre de Neurosciences Cognitives [CNRS] – *France*)

**9:10 am**                      **Using In-Vehicle Devices to Examine Exposure and Patterns in Drivers with Parkinson’s Disease Compared to an Age-Matched Control Group (38)**  
Alex Crizzle, Anita Myers (University of Waterloo – *Canada*), Brenda Vrkljan (McMaster University – *Canada*), Quincy Almeida (Wilfrid Laurier University – *Canada*)

**9:30 am**                      **Translating Laboratory Measures to Real-World Outcomes: Application of the UFOV® Test in an Insurance Company Setting (39)**  
Lesley Ross, David Vance, Karlene Ball, Leslie Cak, Michelle Ackerman, David Benz, David Ball (University of Alabama, Birmingham)

**10:00 am – 10:30 am**                      **BREAK**

**Session 5 – Lectures**  
**Crash Risk & Driver Behavior**  
**10:30 am – noon**  
Grand Sierra Ballroom A&B

Session Chair: James Foley

**10:30 am**                      **Effect of Feedback on Performance in the Lane-Change Test (40)**  
Vera Berthon-Donk, Marc Grosjean, Gerhard Rinkenauer (Leibniz Research Centre for Working Environment and Human Factors – *Germany*)

**10:50 am**                      **Psychiatric Disorders and Driver Safety: A Systematic Review (41)**  
Jessica Williams, Stephen Tregear, Arit Amana (MANILA Consulting Group, Inc.)

**11:10 am**      **Evaluation of Motorcycle Conspicuity in a Car DRL Environment (42)**  
Viola Cavallo, Maria Pinto (French Institute of Science and Technology for Transport, Development and Networks [IFSTTAR – INRETS], LPC – *France*)

**11:30 am**      **Driving Consistency Errors Overestimate Crash Risk from Cellular Conversation in Two Case-Crossover Studies (43)**  
Richard Young (Wayne State University)

**12:00 pm – 1:30 pm**      **LUNCH**  
Alpine Ballroom

**12:30 pm – 1:15 pm**      **TOYOTA KEYNOTE LUNCHEON SPEAKER**  
Alpine Ballroom

**Driving by the Seat of Your Pants! A Multisensory Approach to Capturing Driver Attention (44)**  
Professor Charles Spence  
University of Oxford, *UK*

**Session 6 – Lectures**  
**Attention & Distraction**  
**1:30 pm – 3:00 pm**  
Grand Sierra Ballroom A&B

Session Chair: Eric Traube

**1:30 pm**      **Dynamic Attention as a Predictor of Driving Performance in Clinical Populations: Preliminary Results (45)**  
Alex Bowers, Julius Anastasio (Schepens Eye Research Institute, Harvard Medical School), Piers Howe (University of Melbourne – *Australia*), Margaret O'Connor, Ann Hollis, Lissa Kapust (Beth Israel Deaconess Medical Center), Matt Bronstad (Schepens Eye Research Institute, Harvard Medical School), Todd Horowitz (Brigham & Women's Hospital, Harvard Medical School)

**1:50 pm**      **Age-Related Limits of 3D Spatial Attention in Dual-Task Driving (46)**  
Russell Pierce, Zheng Bian, George Andersen (University of California, Riverside)

**2:10 pm**      **How Do Task Structure and Uncertainty Influence Task-Interleaving Strategies During Distracted Driving? (47)**  
David Kidd (George Mason University)

**2:30 pm**      **Exploring the Influence of Light and Cognitive Load on Pupil Diameter in Driving Simulator Studies (48)**  
Oskar Palinko, Andrew Kun (University of New Hampshire)

## Wednesday, June 29, 2011

### Session 7 – Poster Session B

3:00 pm – 4:30 pm

Grand Sierra Ballroom C&D

**Evaluating Changes in the Driving Behavior of Young Drivers a Few Years After Licensure Using In-Vehicle Data Recorders (49)** Gila Albert (Holon Institute of Technology – *Israel*), Oren Musicant (Tel-Aviv University – *Israel*), Tsippy Lotan (Or Yarok – *Israel*), Tomer Toledo (Technion-Israel Institute of Technology – *Israel*), Einat Grimberg (Or Yarok – *Israel*)

**How Missing a Treatment of Mixed Amphetamine Salts Extended Release Affects Performance in Teen Drivers with ADHD (50)** Lana Trick (University of Guelph – *Canada*), Grazyna Jackiewicz (McMaster University – *Canada*)

**On-Road Driving Assessment Errors Associated with Pass and Fail Outcomes for Older Drivers with Cognitive Impairment (51)** Petra Hoggarth (Van der Veer Institute for Parkinson's & Brain Research; University of Canterbury – *New Zealand*), Carrie Innes (Van der Veer Institute for Parkinson's & Brain Research; Christchurch Hospital – *New Zealand*), John Dalrymple-Alford (Van der Veer Institute for Parkinson's & Brain Research; University of Canterbury; University of Otago – *New Zealand*), Richard Jones (Van der Veer Institute for Parkinson's & Brain Research; University of Canterbury; Christchurch Hospital; University of Otago – *New Zealand*)

**Effect of Driving Simulation Parameters Related to Ego-Motion on Speed Perception (52)** Shaun Durkee, Nicholas Ward (Western Transportation Institute, Montana State University)

**Fast Microsleep and Yawning Detections to Assess Driver's Vigilance Level (53)** Nawal Alioua (Mohammed V-Agdal University – *Morocco*), Aouatif Amine (Mohammed V-Agdal University; Ibn Tofail University – *Morocco*), Mohammed Rziza, Driss Aboutajdine (Mohammed V-Agdal University – *Morocco*)

**Influence of Headlight Design on Sensory Conspicuity of Powered Two-Wheelers (54)** Maria Pinto, Viola Cavallo (French Institute of Science and Technology for Transport, Development and Networks [IFSTTAR – INRETS], LPC – *France*)

**Exploring Older Driver Lateral Head Rotations at Intersections Using Naturalistic Driving Data (55)** Jon Antin, Brian Wotring (Virginia Tech Transportation Institute), James Foley (Toyota Technical Center)

**Developing Driving Task Scenarios for Developmentally Tailored Driving Assessments: Using an Evidence-Centered Design Model (56)** Erik Roelofs, Marieke van Onna (Cito, National Institute for Educational Measurement – *The Netherlands*), Karel Brookhuis (Delft University of Technology; University of Groningen – *The Netherlands*)

**Encouraging Environmentally Friendly Driving Through Driver Assistance: The eCo Move Project (57)** Nicola Fricke, Caroline Schießl (German Aerospace Center [DLR] – *Germany*)

**On-Road Evaluation of Destination Entry and Wayfinding Tasks: Comparisons Against Normal Driving (58)** Miguel Perez, Derek Viita, Jonathan Hankey (Virginia Tech Transportation Institute), Sherri Voran-Nowak, Steven Tengler (OnStar Corporation)

**Cognitive, Perceptual and Motor Decline as Predictors of Risky Street-Crossing Decisions in Older Pedestrians (59)** Sabine Langevin, Aurèlie Domes, Viola Cavallo (French Institute of Science and Technology for Transport, Development and Networks [IFSTTAR – INRETS], LPC – *France*), Jennifer Oxley (MUARC, Monash University Sunway Campus – *Malaysia*), Fabrice Vienne (IFSTTAR – INRETS, LEPSIS – *France*)

**Use of a Simulator to Objectively Distinguish Behaviors Between Low-Risk and High-Risk Drivers (60)** Yi-Ching Lee (Children's Hospital of Philadelphia), Noelle LaVoie, Ursula Lauper (Parallel Consulting), Anna Cianciolo (Command Performance Research)

**Texting While Driving: Evaluation of Glance Distributions for Frequent/Infrequent Texters and Keypad/Touchpad Texters (61)** Siby Samuel, Alexander Pollatsek, Donald Fisher (University of Massachusetts, Amherst)

**The Impact of Distraction on an Intersection Crossing Assist System (62)** Ensar Becic, Christopher Drucker, Michael Manser, Max Donath (University of Minnesota)

**Revisiting Driver Behavior at Unsignalized Intersections: Time of Day Implications for Two-Way Left Turn Lanes (TWLTL) (63)** Sahar Nabaee, Derek Moore, David Hurwitz (Oregon State University)

**Aging and Steering Control Under Reduced Visibility Conditions (64)** Bobby Nguyen (Wichita State University), Yan Zhuo (Institute of Biophysics, Chinese Academy of Sciences – *China*), Rui Ni (Wichita State University)

**Driving Performance of Drug-Impaired Bus Drivers in Work Zone Areas (65)** Chris Deits, Linda Boyle (University of Washington), John Morrison (Cahill Swift, LLC)

**Influence of Riding Experience on Glance Behavior, Brake Response Time and Deceleration Rates by Drivers and Motorcyclists (66)** Jeffrey Muttart, Donald Fisher (University of Massachusetts, Amherst), Chris Kauderer (Kauderer & Associates), Wade Bartlett (Mechanical Forensic Engineering Services), Louis Peck (SD Lyons, Inc.), Steve Guderian (San Francisco Municipal Transportation Authority & Motorcycle Safety Consulting), Lisa Ton, Matthew Muttart (Crash Safety Solutions, LLC)

**The Effects of Route Guidance on Spatial Learning (67)** Yi-Fang Tsai, Matthew Peterson (George Mason University)

**Asymmetric Properties of Heart Rate Variability to Assess Operator Fatigue (68)** Christian Heinze (University of Applied Sciences Schmalkalden – *Germany*), Udo Trutschel (Circadian Technologies, Inc.), Dave Edwards (Caterpillar, Inc.), Bill Sirois (Circadian Technologies, Inc.), Martin Golz (University of Applied Sciences Schmalkalden – *Germany*)

Withdrawn (69)

**Effects of Concurrent Continuous Visual Feedback on Learning the Lane Keeping Task (70)** Peter van Leeuwen, Stefan de Groot, Riender Happee, Joost de Winter (Delft University of Technology – *The Netherlands*)

**Use of Instrumented Motorcycle to Measure the Effectiveness of Malaysian Rider Training: A Pilot Study (71)** Mohd Khairul Alhapi Ibrahim, Mohd Faudzi Mohd Yusoff (Malaysian Institute of Road Safety Research [MIROS] – *Malaysia*)

*\*Paper 80 will be presented in this poster session*



### Wednesday, June 29, 2011

4:45 pm – 10:30 pm	<b>M.S. DIXIE II – DINNER CRUISE</b> Zephyr Cove
4:45 pm – 5:15 pm	<b>Depart Squaw Creek</b> by shuttle bus Squaw Creek Resort Lobby <i>*Maps provided if you prefer to drive</i>
6:30 pm – 9:30 pm	<b>Social Hour</b> (cash bar)
7:10 pm & 8:10 pm	<b>Dinner seatings</b>
9:30 pm	<b>Depart M.S. Dixie II</b> by shuttle bus
10:30 pm (approx.)	<b>Return to Squaw Creek</b>

### Thursday, June 30, 2011

7:00 am – 1:00 pm	<b>Registration Open</b> Outside Grand Sierra Ballroom
7:00 am – 8:30 am	<b>Breakfast Buffet</b> Outside Grand Sierra Ballroom

#### **Session 8 – Hybrid Presentations**

**8:30 am – 10:00 am**  
Grand Sierra Ballroom A&B

Session Chair: Hamish Jamson

**An Autonomous Intelligent Driving Simulation Tutor for Driver Training and Remediation: A Concept Paper (72)** Matthew Romoser (University of Massachusetts, Amherst)

**Eye Movement Patterns and Driving Performance (73)** Zheng Bian, Russell Pierce, George Andersen (University of California, Riverside)

**The Accuracy of Drivers' Judgments of the Effects of Headlight Glare: Are We Really Blinded by the Light? (74)** Stacy Balk, Richard Tyrrell (Clemson University)

**Integrating Kinematic- and Vision-Based Information to Better Understand Driving Behaviour (75)** Oren Musicant (Tel-Aviv University – *Israel*), Tomer Toledo (Technion–Israel Institute of Technology – *Israel*), Tsippy Lotan, Einat Grimberg, Dov Ganor (Or Yarak – *Israel*)

**Perception of Approaching Motorcycles by Distracted Drivers May Depend on Auxiliary Lighting Treatments: A Field Experiment (76)** James Jenness, Richard Huey, Shawn McCloskey, Jeremiah Singer, Jeremy Walrath, Elisha Lubar, Neil Lerner (Westat)

**A Simulator Comparison of Riding Performance Between New, Returned and Continuing Motorcycle Riders (77)** Mark Symmons, Christine Mulvihill (Monash University – *Australia*)

**Inhibitory Control and Reward Predict Risky Driving in Young Novice Drivers: A Simulator Study (78)** Ellen Jongen (Transportation Research Institute [IMOB], Hasselt University – *Belgium*), Kris Brijs (IMOB, Hasselt University; XIOS University College – *Belgium*), Marcell Komlos, Tom Brijs, Geert Wets (IMOB, Hasselt University – *Belgium*)

**Traumatic Brain Injury and Driver Safety: A Systematic Review (79)** Stephen Tregear, Jessica Williams, Damilola Funmilayo (MANILA Consulting Group, Inc.)

**Effectiveness of an Intersection Violation Warning System (80)** Dawn Marshall, Robert Wallace, James Torner, Michelle Birt-Leeds (University of Iowa) *\*Note: this paper will be presented in Poster Session B*

**Assessing the Transfer of Simulator Trained Skills to Real Vehicle Control (81)** Barry Coutermarsh, Kelley MacDonald, Sally Shoop (U.S. Army Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory)

**Effects of Familiarity and Age on Driver Safety Errors During Wayfinding (82)** Katherine Read, Lixi Yu, Jamie Emerson, Jeffrey Dawson, Nazan Aksan, Matthew Rizzo (University of Iowa)

**Systematic Analysis of Real-World Driving Behavior Following Focal Brain Lesions (83)** Kelsey Thompson, Katherine Read, Steven Anderson, Matthew Rizzo (University of Iowa)

**Assessing Drivers' Tailgating Behavior and the Effect of Advisory Signs in Mitigating Tailgating (84)** Jyh-Hone Wang, Miao Song (University of Rhode Island)

**A Comparison of Heart Rate and Heart Rate Variability Indices in Distinguishing Single-Task Driving and Driving Under Secondary Cognitive Workload (85)** Bruce Mehler, Bryan Reimer, Ying Wang (Massachusetts Institute of Technology [MIT] AgeLab)

**Driver Control Actions in High-Speed Circular Driving (86)** Diomidis Katzourakis (Delft University of Technology – *The Netherlands*), Efsthios Velenis (Brunel University – *UK*), Riender Happee (Delft University of Technology – *The Netherlands*)

**Effect of Driving Breaks and 34-hour Recovery Period on Motor Carrier Crash Odds (87)** Kun-Feng Wu, Paul Jovanis (Pennsylvania State University)

**10:00 am – 10:15 am            BREAK**

**Thursday, June 30, 2011**

**Session 9 – Lectures**

**Perception & Decision Making**

**10:15 am – 11:45 am**

Grand Sierra Ballroom A&B

Session Chair: Paul Green

- 10:15 am      Hazard Perception and Distraction in Novice Drivers: Effects of 12 Months Driving Experience (88)**  
Anuj Pradhan, Bruce Simons-Morton (National Institute of Child Health and Human Development), Suzanne Lee, Sheila Klauer (Virginia Tech Transportation Institute)
- 10:35 am      The Effect of Age and Gender on Visual Search During Lane Changing (89)**  
Martin Lavallière (Massachusetts Institute of Technology [MIT] AgeLab; Université Laval – *Canada*; Centre de recherche FRSQ du CHA Universitaire de Québec – *Canada*), Bryan Reimer, Bruce Mehler, Lisa D'Ambrosio, Ying Wang (MIT AgeLab), Normand Teasdale (Université Laval; Centre de recherche FRSQ du CHA Universitaire de Québec – *Canada*), Joseph Coughlin (MIT AgeLab)
- 10:55 am      Developing a North American Static Hazard Perception Test (90)**  
John Lyon, David Borkenhagen, Charles Scialfa, Micheline Deschênes, Mark Horswill (University of Calgary – *Canada*)
- 11:15 am      The Effect of Traffic Complexity and Speed on Young and Elderly Pedestrians' Street-Crossing Decisions (91)**  
Aurèlie Dommes, Sabine Langevin, Viola Cavallo (French Institute of Science and Technology for Transport, Development and Networks [IFSTTAR – INRETS], LPC – *France*), Jennifer Oxley (MUARC, Monash University Sunway Campus – *Malaysia*), Fabrice Vienne (IFSTTAR – INRETS, LEPSIS – *France*)
- 11:45 am                      Conference Program Wrap-Up**  
Grand Sierra Ballroom A&B
- 12:00 pm – 1:30 pm              Box Lunch**  
Outside Grand Sierra Ballroom
- 12:15 pm – 1:00 pm              SHRP2 – UPDATE & RESEARCH OPPORTUNITIES**  
Grand Sierra Ballroom A&B
- Professor Joanne Harbluk  
SHRP2-TCC and Chair  
Data Access Committee