

RCCADS Public Workshop

Thursday, June 6, 2024



WORKSHOP AGENDA

8:30 - 8:50 Welcome, TRC and RCCADS Overview

Laura Watkins | Transportation Research Center Inc.

8:50 - 10:00 Session 1: Occupant Motion in Pre-Crash AEB Manuevres

Corina Klug, Gregor Gstrein, Christoph Leo, Desiree Kofler | Graz University of Technology Vehicle Safety Institute

Jing Fei¹, Peifeng Wang¹, Xiaoting Yang², Zhen Li², Yu Liu¹, Zhonghao Bai², Guojie Wang¹, Kuo Cheng¹ | 1: China Automotive Engineering Research Institute Co., Ltd., 2: Hunan University

9:15 Analysis of Occupant Motion in Pre-Crash AEB Manuevres in Current and Future Seating Positions**^

Corina Klug, Ph.D and Gregor Gstrein, Ph.D | Graz University of Technology Vehicle Safety Institute

Corina Klug, Gregor Gstrein, Christoph Leo, Desiree Kofler | Graz University of Technology Vehicle Safety Institute

9:40 Update on Modification of THOR for Reclined Postures – Testing to Evaluate Prototype Pelvis Modifications**^

John-Paul Donlon | University of Virginia Center for Applied Biomechanics

Jason Forman¹, John-Paul Donlon¹, Bronislaw Gepner¹, Adrian Caudillo-Huerta¹, William Marshall², Derek Winter², Paul Lemmen² | 1: University of Virginia Center for Applied Biomechanics, 2: Cellbond

10:05 Safety Research at Waymo^

Eamon Campolettano, Ph.D | Waymo

Eamon Campolettano, John Scanlon, Kris Kusano | Waymo

10:30-10:40 Break

10:40-12:45 Session 2: Influence of Restraint Systems

10:40 Occupant Classification by Seatbelt^

Da Wang | Autoliv

Da Wang, Elias Mathiasson, Lara Wehrmeyer | Autoliv

11:05 Tensile and Compressive Material Properties of Human Pelvic Cortical Bone: Preliminary Findings**

Devon Albert, Ph.D | Virginia Tech Center for Injury Biomechanics

Devon Albert¹, Randee Hunter², Amanda Agnew² | 1: Virginia Tech Center for Injury Biomechanics, 2: The Ohio State University Injury Biomechanics Research Center

11:30 The Effects of Sex, Body Shape, Posture, and Belt Tension on Belt Fit Relative to the Skeleton**

Paris Vakiel, Ph.D | University of British Columbia

Paris Vakiel¹, Jade Levine¹, Vivian Chung¹, Jason Forman², Gabrielle Booth³, Olivia Mergler², Sarah Romani¹, Honglin Zhang¹, Carolyn Roberts³, Gunter P. Siegmund³, Bengt Pipkorn⁴, Peter Cripton¹ | 1: University of British Columbia, 2: University of Virginia Center for Applied Biomechanics, 3: MEA Forensic Engineers & Scientists, 4: Autoliv Research

11:55 Investigating Thoracic and Abdominal Injury Risk during Frontal Loading Conditions**

Devon Albert, Ph.D | Virginia Tech Center for Injury Biomechanics

Devon Albert, Andrew Kemper, Warren Hardy | Virginia Tech Center for Injury Biomechanics

12:20 Occupant Sensing Impact on Restraint Systems Technologies in Future Mobility

Mutaz Shkoukani | Joyson Safety Systems

Mutaz Shkoukani, Len Cech, Jason Lisseman, Ingo Kalliske, Karsten Hallbauer | Joyson Safety Systems

12:45-12:50 Closing Remarks