

5th ANNUAL RCCADS WORKSHOP AGENDA

May 21st, 2025

8:00 – 8:30 Check-in at James A. Rhodes Conference Center

8:30 – 8:40 Opening Remarks – TRC and RCCADS Overview

Michelle M. Fowler | Transportation Research Center Inc.

8:40 – 10:00 Session 1

8:40 Preliminary Results about the Risk of Submarining in Reclined Seating Postures**

Francisco J. Lopez-Valdez, Ph.D | MOBIO Lab, Universidad Pontificia Comillas

9:00 Test and Assessment Draft for Reclined Seat Occupant Safety

Peifeng Wang | China Automotive Engineering Research Institute

9:20 Overview of THOR-AV design, biofidelity, injury risk curves and readiness for vehicle testing

Jerry Wang, Ph.D | Humanetics

9:40 Predicting Lumbar Spine Injury Risk with ATDs

Zhaonan Sun, Ph.D | Toyota Collaborative Safety Research Center

10:00 – 10:30 Break

10:30 – 12:45 Session 2

10:30 Building trust in HBM Injury Risk Predictions: Validations and Challenges

Karl-Johan Larsson, Ph.D | Autoliv Research

10:50 Tensile and Compressive Material Properties of Human Pelvic Cortical Bone**

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

11:10 State of Knowledge on Upper Extremity Injury Causation and Injury Prediction**

Jason Forman, Ph.D | University of Virginia Center for Applied Biomechanics

11:30 AI-guided Integrative Vehicle Safety through Pre-crash and Crash Simulations

Jingwen Hu, Ph.D | University of Michigan Transportation Research Institute

11:50 – 12:00 Closing Remarks

12:00 – 2:00 Lunch – Facility Tours & TRC New Impact Lab Presentation

**Indicates RCCADS Funded Project