

# 5<sup>th</sup> ANNUAL RCCADS WORKSHOP AGENDA

May 21<sup>st</sup>, 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