

## IRCOBI Conference 2026

Version: 29.08.2026



Overview:

|                             |                                               |                                                                                                                                 |
|-----------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Wednesday, 9 September 2026 |                                               |                                                                                                                                 |
| 8:30h                       | Welcome Address                               |                                                                                                                                 |
| 8:46h                       | S1-1: Biomechanics of Alternative Seating     | S2-1: Helmet Safety                                                                                                             |
| 10:00h                      | Break                                         |                                              |
| 10:30h                      | S1-2: Investigations using Human Body Models  | S2-2: Traumatic Brain Injury                                                                                                    |
| 12:00h                      | Lunch                                         |                                              |
| 13:30h                      | Keynote Lecture                               |                                                                                                                                 |
| 14:10h                      | S1-3: Anthropometric Test Device Performance  | S2-3: Vulnerable Road Users - Pedestrians    |
| 15:30h                      | Break                                         |                                                                                                                                 |
| 16:00h                      | S1-4: Child Safety                            | S2-4: Vehicle Crashworthiness and Seat Design                                                                                   |
| 18:00h                      | Reception                                     |                                                                                                                                 |
| Thursday, 10 September 2026 |                                               |                                                                                                                                 |
| 8:30h                       | S1-5: Virtual Testing                         | S2-5: Sports Injury                                                                                                             |
| 10:00h                      | Break                                         |                                                                                                                                 |
| 10:30h                      | S1-6: Novel Experimental Methods              | S2-6: Developments in Human Body Models                                                                                         |
| 12:00h                      | Lunch                                         |                                            |
| 13:30h                      | Bertil Aldman Memorial Lecture                |                                                                                                                                 |
| 14:10h                      | S1-7: Injury Analysis using Human Body Models | S2-7: Vulnerable Road Users - Cyclist and PTW                                                                                   |
| 15:30h                      | Break                                         |                                                                                                                                 |
| 16:00h                      | S1-8: Volunteer Testing                       | S2-8: Validation of Human Body Models                                                                                           |
| 17:30h                      | Student-Get-Together                          |                                                                                                                                 |
| 19:30h                      | Conference Dinner                             |                                                                                                                                 |
| Friday, 11 September 2026   |                                               |                                                                                                                                 |
| 8:30h                       | S1-9: Crash Data and Analysis I               | S2-9: Tissue Mechanics                                                                                                          |
| 10:00h                      | Break                                         |                                                                                                                                 |
| 10:30h                      | S1-10: Crash Data and Analysis II             | S2-10: ATD Model Development and Analysis  |
| 12:40h                      | Conference Wrap-up & Prizes                   |                                                                                                                                 |
| 13:00h                      | Take Away Lunch                               |                                                                                                                                 |

Wednesday, 9 September 2026

Foyer

**08:00 Registration**

Room A

**08:30 Welcome Address**

Spyros Masouros, IRCOBI president

Room A

**08:46 S1-1: Biomechanics of Alternative Seating**

Room B

**S2-1: Helmet Safety**

- 8:46 IRC-26-10  
**Automatic Creation of Synthetic Finite Element Seats Using Statistical Models**  
P G Cemborain; D Hall; J P Donlon; A Mehta; B Gepner; A Caudillo-Huerta; D Perez-Rapela; M Edwards; J Jermakian; J Forman  
*University of Virginia, Human Injury Consulting and Research LLC, Insurance Institute for Highway Safety (IIHS)*
- 9:02 IRC-26-11  
**Evaluation of Flesh Material Model Implementation on GHBMK Kinematic Predictions for 50th Percentile Male and Female Occupants in Frontal Impacts in Reclined Postures**  
R Newman; A Caudillo; J Shin; M B Panzer; B D Gepner  
*University of Virginia*
- 9:18 IRC-26-12  
**Short Communication: Assessing SAFER HBM Kinematic Response Sensitivity in Frontal Impacts with Various Reclined Seating Postures**  
E Jokubaityte; M Valdano; K Mroz; F J Lopez-Valdes  
*Comillas Pontifical University, Autoliv*
- 9:26 IRC-26-13  
**Short Communication: External Biofidelity Evaluation of GHBMK M50-O V.6.1 Model in Deep Reclined Position**  
M Soto; F Auriault; P Baudrit; O Richard; M Debray  
*CEESAR, Forvia Automotive Seating*
- 9:34 IRC-26-14  
**Short Communication: Challenges to Position Obese Human Body Models to Reclined Configurations**  
A Vial; Y Lafon; M Lebarbé; P Petit; P Beillas  
*Univ Eiffel, CEESAR, LAB PSA Renault*
- 9:42 IRC-26-15  
**Short Communication: An Integrated Framework for Parametric Shape and Pose Reconfiguration of Finite-Element Human Body Models: Application to Highly Reclined AC-HUMs Occupants**  
Y Chen; B Zhou; X Feng; K Yang; Y Li; J Ma; J Li; J Tang  
*Chongqing Changan Automobile Co., Chongqing University*
- 9:50 IRC-26-16  
**Short Communication: Frontal Impacts on Omnidirectional Seating Orientations of the GHBMK M50-O: Informing New Sled Conditions for ADS**  
V Pradhan; H Kwon  
*Transportation Research Center Inc., NHTSA*

- 8:46 IRC-26-79  
**Assessment of an Anti-Rotation Technology effect and Pedelec Bicycle Helmets based on Certimoov methodology**  
N Bourdet; C Deck; F Meyer; R Willinger  
*Strasbourg University*
- 9:02 IRC-26-80  
**Short Communication: A Comparative Study of Injury Risk in Collapsible and Conventional Bicycle Helmets**  
W Dawber; X Yu; V Darvishi; M Ghajari  
*Imperial College*
- 9:10 IRC-26-81  
**Short Communication: Can bicycle helmets mitigate severe head injuries in high-speed e-bike accidents?**  
Q Huang; C Li; S Kleiven; Z Zhou  
*KTH Royal Institute of Technology*
- 9:18 IRC-26-82  
**Short Communication: Assessment of Novel Test Method for Bicycle Helmets.**  
K Brolin; V Alvarez  
*Lightness by Design*
- 9:26 IRC-26-83  
**Short Communication: Using High-Speed Cineradiography to Access Bicycle Helmet Internal Strain During Head Impacts: A Proof of Concept**  
C Tülemek; N Bailly; R Madke; F Turquier  
*Aix Marseille University, Univ Gustave Eiffel, LBA*
- 9:34 IRC-26-84  
**Short Communication: Does a Chin Bar-Mounted Action Camera Increase Head Injury Risk in Facial Impacts?**  
S Meng; L Low; M Ghajari  
*Autoliv Research, Imperial College*
- 9:42 IRC-26-85  
**Short Communication: Facial Impact Conditions for Assessing Motorcycle Helmets, Informed by Reconstruction of Real-World Collisions.**  
L Low; C Baker; W Dawber; S Meng; M Ghajari  
*Imperial College, Autoliv*
- 9:50 IRC-26-86  
**Short Communication: Impact Performance of Equestrian Helmets in Oblique Impacts.**  
S Bonin; M Fahlstedt; P Singh  
*MEA Forensic Engineers & Scientists, Mips AB*

Room C (coffee also available in rooms D and E)

**10:00 Coffee break** Elemance  
break sponsor

Room A

**10:30 S1-2: Investigations using Human Body Models**

Room B

**S2-2: Traumatic Brain Injury**

- 10:30 IRC-26-17  
**Influence of Positioning-Induced Changes in Pelvic Angle on Occupant Kinematics and Injury Risk in Human Body Models during Frontal Loading**  
S Fitterer; D Kofler; J Hu; F Ressi; C Shah; C Klug  
*Graz University of Technology, University of Michigan Transportation Research Institute (UMTRI), Humanetics*
- 10:30 IRC-26-87  
**Short Communication: CT-Derived Lesion Descriptors of Intracranial Haemorrhage and their Association with Injury Severity and Outcome**  
H Kelsey; T V Vyvere; V Newcombe; N Wang; A Marzo; F Lecky; X Yu  
*University of Sheffield, Antwerp University Hospital, University of Cambridge*
- 10:38 IRC-26-88  
**Short Communication: Investigating TBI in Older Adults Using Age-Specific Finite Element Brain Models**  
B L Elkhatib; A A Alshareef  
*University of South Carolina*
- 10:46 IRC-26-18  
**Confidence-based Design Optimisation of Belt Limiting Force Using Gaussian Process Model Prediction of Rib Fracture Risk**
- 10:46 IRC-26-89  
**Short Communication: Experimental Assessment of Head Injury Mechanisms in Urban Falls of Vulnerable Road Users**

C Baek; J Kim; J Cho; J Hu; D Lee  
Hanyang University, University of Michigan Transportation Research Institute (UMTRI)

B Juanes; S Escalante; M Diez; C Deck; N Bourdet  
CIDAUT Foundation, University of Strasbourg

- 11:02

IRC-26-19

**THUMSv7 Response and Injury Assessment Using Parametrised Restraints in a Stock Car Racing Environment**

T Edinger; M Suchozebrski; N Morgan; J Patalak; S Muhkerjee; B Gepner

University of Virginia, National Association for Stock Car Auto Racing (NASCAR)
- 11:18

IRC-26-20

**Short Communication: Influence of Costal Cartilage Geometry on Rib Strain in THUMS under Frontal Hub Impact**

T Miyazaki; Y Takahira; H Imai; M Hamada; Y Nakane

Toyota
- 11:26

IRC-26-21

**Short Communication: Subject-Specific Variation in Injury Response of the Thorax**

A Robinson; A Wills; F S Gayzik

Wake Forest University School of Medicine, Virginia Tech
- 11:34

IRC-26-22

**Short Communication: Evaluation of a Delta-Type Seat belt to Reduce Thoracic Loading in Frontal Impacts Using a Human Body Model**

I Amamori; K Ueno; K Mizuno

Nagoya University
- 11:42

IRC-26-23

**Short Communication: Effect of Postural Changes in Human Body Modeling of Ejection Seats**

S K Shaffer; N Norton; J Schap; Z Hostetler; A Pant; L Frazer; M Davis; D P Nicolella

Southwest Research Institute, Elemance
- 11:50

IRC-26-24

**Short Communication: Subject-Specific Modeling of Spinal Injury Risk Following Long Duration Spaceflight**

T E Busquets; K S Devane; J D Stitzel; J Park; D A Madrid; L F Poveda; D D DiSerafino; J A Tooze; A A Weaver

Wake Forest University School of Medicine, Elemance

- 10:54

IRC-26-90

**Short Communication: Investigation of Intracranial Brain Deformation in Post-Mortem Human Subject Heads Due to Blunt-Force Impacts**

J Demiannay; M Brannen; S Xu; A H Azadi; P Dehghan; S Goodwin; W Yahiaoui-Djerboua; R Taylor; K Poon; S Brien; M Vassilyadi; M D Cusimano; C Karton; T B Hoshizaki; O E Petel

Carleton University, University of Ottawa, Horizon Health Network, The Ottawa Hospital, St. Michael's Hospital
- 11:02

IRC-26-91

**Short Communication: Non-Uniform Effects of Cerebral Volume on Subject-Specific Brain Strain Across Multiple Head Impacts**

E Chan; M Ghajari

Imperial College
- 11:10

IRC-26-92

**Short Communication: Influence of the pia mater modeling on the prediction of acute subdural hematoma**

C Li; S Kleiven; Z Zhou

KTH Royal Institute of Technology
- 11:18

IRC-26-93

**Short Communication: How does Pre-impact Head Rotation affect Impact-induced Brain Strain?**

G P Siegmund; B S Elkin; S J Bonin

MEA Forensic Engineers & Scientists, University of British Columbia
- 11:26

IRC-26-94

**Short Communication: Investigating the role of axonal strain in brain white matter damage using biomechanical modelling of normal pressure hydrocephalus**

V Darvishi; M D Giovane; M C B David; M A Kolanko; P A Malhotra; C Carswell; D J Sharp; M Ghajari

Imperial College
- 11:34

IRC-26-95

**Short Communication: Finite Element Modeling of Diffuse Axonal Injury Using Histologically Informed Microtubule Placements.**

E Jakobsson; Z Zhou; S Kleiven

KTH Royal Institute of Technology
- 11:42

IRC-26-96

**Short Communication: A Biomechanics-Informed Mathematical Framework for Early Tau Pathology Accumulation Following Traumatic Brain Injury**

J González-Cabrero; C G S Cardoso; I Moreno-González; R J Alves-de-Sousa

University of Aveiro, University of Málaga
- 11:50

IRC-26-97

**Short Communication: Mesh Convergence Depends on the Element Formulation of Finite Element Brain Models.**

A Even; Z Zhou; S Kleiven

KTH Royal Institute of Technology

Room G

12:00 Lunch



lunch sponsor

Room A

13:30 Keynote Lecture

- 13:30

IRC-26-02

**Blast Brain Injury - an ongoing story**

C R Bass

Wayne State University

Room A

14:10 S1-3: Anthropometric Test Device Performance

- 14:10

IRC-26-25

**Comparison of THOR-50M-RS to PMHS in Upright Frontal Sled Impacts**

M K Gallagher; J-P Donlon; L M Mann; R T Hollar; I L Nazari; A P Mehta; J L Forman

University of Virginia
- 14:26

IRC-26-26

**Biofidelity Evaluation of THOR-05F in Rear-Facing Seating Configurations**

R L Carpenter; A Bendig; H Kwon; A Hagedorn; V Pradhan; J Stammen; K Moorhouse; Y-S Kang

Transportation Research Center (TRC), National Highway Traffic Safety Administration (NHTSA), The Ohio State University
- 14:42

IRC-26-27

**Analysis of female occupant injuries from crash test data for Full Frontal Crash Tests conducted on Indian Passenger Vehicles**

D Jaju; D Kulkarni; R Mahajan

The Automotive Research Association of India (ARAI)
- 14:58

IRC-26-28

**EvaRID-50th Percentile Female Biofidelity Evaluation Assessed Against Volunteers in a Low-Speed Rear Impact**

Room B

S2-3: Vulnerable Road Users - Pedestrians



session sponsor

- 14:10

IRC-26-98

**How Effectively do Pedestrian Protocol Headform Tests Capture Pedestrian Head Injuries?**

K S Devane; C Edwards; L Poveda; L Miller; W Armstrong; M Pollock; F-C Hsu; F S Gayzik; A A Weaver; J D Stitzel

Wake Forest University School of Medicine
- 14:26

IRC-26-99

**Injuries and Physical Long-term Consequences of Pedestrians Due to Collisions with Cars. An Analysis of the In-Depth Data from Germany, United Kingdom and France**

N Fattorini; M Wisch; L Smith; D Hynd; S Cuny; J Saadé

Federal Highway and Transport Research Institute (BAST), Transport Research Laboratory (TRL), CEESAR
- 14:42

IRC-26-100

**A Large Parametric Finite Element Study of Pedestrian Injury Variability in the Current U.S. Vehicle Fleet**

J Heo; K Rawksa; N Morgan; B Gepner

University of Virginia
- 14:58

IRC-26-101

**Wheel Contact in Subway Collisions: Impact Testing of a Wheel-guard Countermeasure for Amputations, Transections and Decapitations**

|       |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                         |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | D J Isopi; P J Depinet; A Steinhour; B Loeber; B Greenlees<br><i>Humanetics</i>                                                                                                                                                                                                                       | D Hall; J Spears; N Morgan; G Shaw<br><i>University of Virginia</i>                                                                                                                                                                                                                                     |
| 15:15 | IRC-26-29<br><b>Short Communication: Neck kinematics of average female and male dummy sizes in rear-impact tests at 16 km/h and 24 km/h</b><br>S Endo; I Reito; J Tanabe; M Y Svensson; A Linder<br><i>TS Tech, Swedish National Road and Transport Research Institute (VTI), Chalmers University</i> | 15:15<br>IRC-26-102<br><b>Short Communication: Vision-Based Pedestrian-Vehicle Interaction Risk Assessment in Safety-Critical Scenarios</b><br>Y Luo; S Liu; W Lu; D Miao; Q Zhou; B Nie<br><i>Tsinghua University</i>                                                                                  |
| 15:23 | IRC-26-30<br><b>Short Communication: Sensitivity of the DAMAGE Injury Metric to Perturbations in Head Kinematic Signals</b><br>R B Iyer; H R Miller; B Mueller; M B Panzer<br><i>University of Virginia, Insurance Institute for Highway Safety (IIHS)</i>                                            | 15:23<br>IRC-26-103<br><b>Short Communication: Comparative Analysis of Chest Deflection-Rib Strain Correlation in Occupant Lateral Loading vs. Pedestrian Collision Scenarios</b><br>Y Long; Y Xiao; B Zhang; Z Xiao; Y Liu<br><i>China Automotive Engineering Research Institute, Hunan University</i> |

|                                                 |
|-------------------------------------------------|
| Room C (coffee also available in rooms D and E) |
| <b>15:30 Coffee break</b>                       |

| Room A                                                                                                                                                                                                                                                                                                                                 | Room B                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>16:00 S1-4: Child Safety</b>                                                                                                                                                                                                                                                                                                        | <b>S2-4: Vehicle Crashworthiness and Seat Design</b>                                                                                                                                                                                                                                                          |
| 16:00<br>IRC-26-31<br><b>Safety Assessment of Aftermarket Devices for Pregnant Occupants and Children: Market Analysis and Sled Testing</b><br>A Carlsson; A Kullgren<br><i>Chalmers Industriteknik/ Chalmers University, Folksam Insurance Group</i>                                                                                  | 16:00<br>IRC-26-104<br><b>Comparison of Non-Electric Vehicle Crashworthiness in Crash Tests with Electric Vehicles</b><br>K Tang; S Tylko; A Bussi eres<br><i>University of Waterloo, Transport Canada, PMG Technologies</i>                                                                                  |
| 16:16<br>IRC-26-32<br><b>Development of an Age-Specific Finite Element Brain Model to Advance Pediatric Crash Protection</b><br>G Wynn; M B Panzer<br><i>University of Virginia</i>                                                                                                                                                    | 16:16<br>IRC-26-105<br><b>Kinetics of Small Female PMHS in OEM vs. Spring-Controlled Seats</b><br><br>K Somasundaram; T Rooks; K Driesslein; F Pintar<br><i>Medical College of Wisconsin</i>                                                                                                                  |
| 16:32<br>IRC-26-33<br><b>Influence of Static Seat Belt Fit Parameters on the Dynamic Response of the Large Omnidirectional Child Dummy in Frontal Impacts</b><br>B Challa; S Noll; C Bendig; A Louden<br><i>The Ohio State University, Transportation Research Center Inc., National Highway Traffic Safety Administration (NHTSA)</i> | 16:32<br>IRC-26-106<br><b>Sensitivity of Lumbar Spine Loadings to Different Seat Characteristics and Human Body Model Boundary Conditions</b><br>M Gonz alez-Garc a; J Weber; S Peldschus; A Eggers<br><i>Volkswagen; University of Munich (LMU), Federal Highway and Transport Research Institute (BAST)</i> |
| 16:48<br>IRC-26-34<br><b>Short Communication: Load-weighting Strategy between the Pre-pretensioner Belt and Neuromuscular Control in Forward-leaning Children in Frontal-Oblique Pre-crash Manoeuvres</b><br>V Graci; M Griffith; T Seacrist<br><i>Children's Hospital of Philadelphia, Drexel University</i>                          | 16:48<br>IRC-26-107<br><b>L-type Side Impact Intersection Crashes: Investigated Through Field Data and OEM FE Simulations</b><br><br>N Morgan; J S Kong; S H Hong; B Gepner; J Kerrigan<br><i>University of Virginia, Hyundai Motor Company</i>                                                               |
| 16:56<br>IRC-26-35<br><b>Short Communication: Restraint Use Among Children in Motor Vehicle Crashes in Ohio</b><br><br>G H Baker; A L Harden; M E Cole; J A Mansfield<br><i>The Ohio State University</i>                                                                                                                              |                                                                                                                                                                                                                                                                                                               |
| 17:04<br>IRC-26-36<br><b>Short Communication: Finite Element Analysis of Child Occupant Protection in Cargo Bikes</b><br>N Prasarththong; G Gstrein; D Kofler; E Tomasch; N Erlinger; C Klug<br><i>Graz University of Technology</i>                                                                                                   | 17:04<br>IRC-26-108<br><b>Short Communication: A Retrospective Study of Evolving Vehicle Architecture on Pitch and Vertical Kinematics using NHTSA Frontal Barrier Tests</b><br>W R Valdez; M Valdano; F J L pez-Vald s<br><i>Comillas Pontifical University</i>                                              |

|                                |
|--------------------------------|
| Altes Rathaus                  |
| <b>18:00 Welcome Reception</b> |

|                                    |
|------------------------------------|
| <b>Thursday, 10 September 2026</b> |
|------------------------------------|

|                           |
|---------------------------|
| Room G                    |
| <b>08:00 Registration</b> |

| Room A                                                                                                                                                                                                                                                                                                          | Room B                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>08:30 S1-5: Virtual Testing</b>                                                                                                                                                                                                                                                                              | <b>S2-5: Sports Injury</b>                                                                                                                                                                                                                                                                       |
| 8:30<br>IRC-26-37<br><b>Comparative Evaluation of Positioning Methods for Finite Element Human Body Models in Virtual Crash Testing: Implications for Mesh Quality and Injury Prediction</b><br><br>S Roka; P Lozano; S Dudhade; A Jaware<br><i>Applus IDIADA, Comillas Pontifical University, IDIADA India</i> | 8:30<br>IRC-26-109<br><b>Incidence and Body Region Distribution of Reported Football (Soccer) Injuries: Insights from a National Insurance Database</b><br><br>H Stigson<br><i>Folksam Insurance Group</i>                                                                                       |
| 8:46<br>IRC-26-38<br><b>Guidelines for Pelvis and Spine Positioning of Human Body Models for Application in Occupant Protection Simulations</b><br>Y K Vari; G Marini; K Wagner<br><i>Otto von Guericke University of Magdeburg, Audi AG</i>                                                                    | 8:46<br>IRC-26-110<br><b>Short Communication: Investigation of Impact Angle Effect on Brain Strain Distribution in Football Headers Using a Detailed FE Brain Model</b><br>S Kitamura; Y Miyazaki; J Farmer; R England; I Phillips<br><i>Institute of Science Tokyo, Loughborough University</i> |
|                                                                                                                                                                                                                                                                                                                 | 8:54<br>IRC-26-111<br><b>Short Communication: Computational Prediction of Mandibular Muscle Forces During Sporting Head Impacts</b><br>E Koumantou; J E Lloyd; B Sagl; M Ghajari<br><i>Imperial College, University of British Columbia, Medical University of Vienna</i>                        |
| 9:02<br>IRC-26-39                                                                                                                                                                                                                                                                                               | 9:02<br>IRC-26-112                                                                                                                                                                                                                                                                               |

|      |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <b>Transfer of Posture and Kinematics from Pre-Crash Madymo HBM to In-Crash VIVA+ Simulations for Holistic Vehicle Safety Analyses</b><br>D Kofler; N Fahse; F Ressi; J Fehr; C Klug<br><br><i>Graz University of Technology, University of Stuttgart</i> | <b>Short Communication: Predicting Sport-Related Brain Injury via Head Kinematics, Finite Element Brain Modelling, and Plasma Biomarkers</b><br>J W Hickey; E Y K Chan; L J Evans; W T O'Brien; B Xie; S S Roberts; S E Butler; J Ernest; W J Q Zhou; K A Zimmerman; G Spitz; T D Parker; T J O'Brien; S R Shultz; D J Sharp; M Ghajari; S J McDonald<br><i>Monash University, Imperial College</i> |
|      |                                                                                                                                                                                                                                                           | 9:10 IRC-26-113<br><b>Short Communication: Video-Based Estimation of Head Impact Velocities in Ski Competitions Accidents: A Comparison with Helmet Standard Impact Speed Requirements</b><br>M Ferrara; N Dall'Acqua; A Foltran; G Zullo; N Petrone<br><i>University of Padova, POC</i>                                                                                                            |
| 9:18 | IRC-26-40<br><b>Influence of Equilibrium Initialisation on Human Body Model Responses in Crash Simulations</b><br>H Mirkhan; J D John; J Iraeus<br><i>Chalmers University of Technology</i>                                                               | 9:18 IRC-26-114<br><b>Short Communication: Lower Leg Fracture Risk During Football Impacts Using Male, Female, and Child Human Body Models</b><br>E M Gray; A Shakib; C E Quenneville<br><i>McMaster University</i>                                                                                                                                                                                 |
|      |                                                                                                                                                                                                                                                           | 9:26 IRC-26-115<br><b>Short Communication: Downhill Bicycles Full Scale Simulation of Crashes and Falls with a Hybrid III Dummy and a Launching Catapult</b><br>G Zullo; A Foltran; M Ferrara; P Bozza; L Facin; N Petrone<br><i>University of Padova, Alpinestars</i>                                                                                                                              |
| 9:34 | IRC-26-41<br><b>Short Communication: Assessment of Head Injury Mechanisms in Side Impacts Considering Posture, Anthropometry and Loading Conditions</b><br>J Abajo; M Diez; A Negro<br><i>CIDAUT Foundation</i>                                           | 9:34 IRC-26-116<br><b>Short Communication: Video-Based Identification of Sequential Body Impact Location Using Pose Estimation</b><br>E Henley; B Reilly; K Mayes; D Kuehl; N E-P Stark; S Rowson<br><i>Virginia Tech, Carilion Clinic</i>                                                                                                                                                          |
| 9:42 | IRC-26-42<br><b>Short Communication: Sensitivity of Occupant Response to Seat Position Variations in Euro NCAP CP-551 Virtual Testing using THUMS and HIIII</b><br>M Rees; S Peldschus; P Wernicke<br><i>BMW AG, Ludwig-Maximilians University</i>        | 9:42 IRC-26-117<br><b>Short Communication: Head Impact Exposure and Strain-Based Injury Prediction Across Youth Ice Hockey</b><br>T Sims; C Kartan; P Dehghan; A Azadi; T B Hoshizaki<br><i>University of Ottawa</i>                                                                                                                                                                                |
| 9:50 | IRC-26-43<br><b>Short Communication: Update and Correlation of the Open Access LS DYNA Toyota Auris Seat Model for Rear-End Impacts</b><br>K-J Larsson; H Sundberg; M Videby; L Eriksson<br><i>Autoliv</i>                                                | 9:50 IRC-26-118<br><b>Short Communication: Puck Impacts to Hockey Skates Evaluated via a Novel Instrumented Surrogate</b><br>E M Kupinski; C E Quenneville<br><i>McMaster University</i>                                                                                                                                                                                                            |

|                                                 |
|-------------------------------------------------|
| Room C (coffee also available in rooms D and E) |
| <b>10:00 Coffee break</b>                       |

|                                               |                                                |
|-----------------------------------------------|------------------------------------------------|
| Room A                                        | Room B                                         |
| <b>10:30 S1-6: Novel Experimental Methods</b> | <b>S2-6: Developments in Human Body Models</b> |

|       |                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:30 | IRC-26-44<br><b>Characterising Driver Chest Loading in Front Crash Tests Using Pressure Mat Measurements</b><br>M L Brumbelow<br><i>Insurance Institute for Highway Safety (IIHS)</i>                                                                                                                                                | 10:30 | IRC-26-119<br><b>Influence of Population Variability in Ligament Material and Vertebrae Geometry on Cervical Spine Responses</b><br>Y N Poojary; J Östh; J Davidsson; J John; J Iraeus<br><i>Chalmers University of Technology, Volvo Cars</i>                                                   |
| 10:46 | IRC-26-45<br><b>Investigation of Risk Factors Contributing to the Occurrence of Posterior Rib Fractures</b><br><br>F J Lopez-Valdes; M Valdano; E Jokubaityte; A P Weiss; C J C Rubio; R Govardhan; S Baladaniya; J Padmanaban<br><i>Universidad Pontificia Comillas, Fundación Hospitalarias, JP Research India</i>                 | 10:46 | IRC-26-120<br><b>Surrogate-based Global Sensitivity Analysis of Seat-belt Design Parameters on Thoracic Injury in Far-Side Impacts Using a Human Body Model</b><br>J Cho; C Baek; Y S Kang; D Lee<br><br><i>Hanyang University, Seoul, The Ohio State University</i>                             |
| 11:02 | IRC-26-46<br><b>Cervical Intervertebral Motion as a Soft-Tissue Injury Predictor for Neck Hyperextension in Low-Speed Rear Impacts</b><br>R Finckro; A Bendig; C Thomas; W Millis; K Moorhouse; Y-S Kang<br><i>The Ohio State University, Transportation Research Center, National Highway Traffic Safety Administration (NHTSA)</i> | 11:02 | IRC-26-121<br><b>Improvement and Validation of THUMSv4.1 AMS0 Face Model in Virtual Performance Solution and Development of Model Specific Facial Fracture Criteria</b><br>D Sahoo; G Marini<br><i>Volkswagen, Audi</i>                                                                          |
| 11:18 | IRC-26-47<br><b>Whiplash Evaluation Procedure for Predicting Rear-Impact Occupant Protection in Modern Vehicle Seats</b><br>M A Edwards; H S Bragg; M L Brumbelow<br><i>Insurance Institute for Highway Safety (IIHS)</i>                                                                                                            | 11:18 | IRC-26-122<br><b>Short Communication: A Trend-Guided Multi-Fidelity Framework for Efficient and Accurate Occupant Injury Prediction</b><br>T Lu; Y Yang; J Chang; Z He; Q Zhou; B Nie<br><i>Tsinghua University, Beijing Forestry University</i>                                                 |
|       |                                                                                                                                                                                                                                                                                                                                      | 11:26 | IRC-26-123<br><b>Short Communication: Accelerating HBM Simulations Through Reduced Order Modelling: Impact of Model Choice and Training Data Size</b><br>J Aleksic; M Rees; P Wernicke; S Peldschus<br><i>Technical University of Munich (TUM), BMW AG, Ludwig-Maximilians University Munich</i> |
| 11:34 | IRC-26-48<br><b>Short Communication: An Assessment of a Body-first Test Rig in Comparison with Head Kinematics from Hybrid III Dummy Experiments and Human Body Model Simulations</b><br><br>S Hedenstierna; J Bergström; E Edblom; R England<br><i>Loughborough University</i>                                                      | 11:34 | IRC-26-124<br><b>Short Communication: Development of Finite Element Models for Evaluation of Safety Footwear and Metatarsal Impact Protection</b><br><br>C E Birch; S D McLachlin; D Gierczycka; N Chandrashekar<br><i>University of Waterloo, Synopsys</i>                                      |
| 11:42 | IRC-26-49<br><b>Short Communication: The Dynamic Response of FlexiForce Sensors for use in Injury Risk Assessments</b><br>C Brewer; C E Quenneville<br><i>McMaster University</i>                                                                                                                                                    | 11:42 | IRC-26-125<br><b>Short Communication: Evaluation of Blunt Cardiac Trauma Volumetric Injury Risk Using Finite Element Models</b><br>P K Thomas; F-C Hsu; M Wolfson; F S Gayzik<br><i>Wake Forest University School of Medicine, Lewis Katz School of Medicine</i>                                 |
| 11:50 | IRC-26-50<br><b>Short Communication: Haemodynamic Disturbances Along the Aorta and the Resulting Deformations of the Aortic Arch Following Deceleration</b><br>E Nicolas; P Vezin<br><i>University of Lyon</i>                                                                                                                       | 11:50 | IRC-26-126<br><b>Short Communication: A Subject-Specific Human Body Model Validation Workflow for Post-Mortem Human Subject Test Reconstruction</b><br>S Khandare; Y-S Lin; K J Boyle; M P Reed; J Hu<br><i>University of Michigan Transportation Research Institute (UMTRI)</i>                 |

|       |                                                                                  |
|-------|----------------------------------------------------------------------------------|
| 13:30 | IRC-26-01<br><b>tba</b><br>P A Crompton<br><i>University of British Columbia</i> |
|-------|----------------------------------------------------------------------------------|

| Room A                                              | Room B                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:10 S1-7: Injury Analysis using Human Body Models | S2-7: Vulnerable Road Users - Cyclist and PTW                                                                                                                                                                                                                                                                                                                     |
| 14:10                                               | IRC-26-127<br><b>Safety benefit assessment for systems that protect vulnerable road users in collisions with heavy goods vehicles</b><br>R Schindler; J Shaikh; A Ranmal; G Li<br><i>Autoliv</i>                                                                                                                                                                  |
| 14:26                                               | IRC-26-128<br><b>Investigation of the Relationship between HIC and Impact Conditions in Scooter-type Powered-Two-Wheeler-to-Car Crashes</b><br>T Yanaoka; Y Gunji; Z H Zulkipili; T Matsushita; J Carroll; P Puthan; S A M Faudzi; K D-Wing; Y Miyazaki<br><i>Honda, Institute of Science Tokyo, Malaysian Institute of Road Safety Research (MIROS), Autoliv</i> |
| 14:42                                               | IRC-26-129<br><b>A Bicyclist Airbag Vest on the SAFER Human Body Model: Protection of Shoulder, Thorax, and Head</b><br>B Li; J Carroll; B Pipkorn; N Lubbe<br><i>Autoliv, Chalmers University of Technology</i>                                                                                                                                                  |
| 14:58                                               | IRC-26-130<br><b>PTW Rider Injury Mechanisms from Full-Scale Crash Testing Using PMHS</b><br><br>J Bolte; J Carroll; M V Meter; A Tesny; D Meringolo; E Higinbotham; S Meng; Y-S Kang; A Agnew<br><i>Injury Biomechanics Global Inc., Autoliv, Transportation Research Center Inc., NHTSA, The Ohio State University, 830 Engineering Group LLC</i>               |
| 15:15                                               | IRC-26-131<br><b>Short Communication: Crash and Injury Characteristics of Powered Three-Wheelers in India: Implications for Occupant Protection and Safety Regulation</b><br>J Shaikh; H Jeppsson<br><i>Autoliv</i>                                                                                                                                               |
|                                                     | 15:23                                                                                                                                                                                                                                                                                                                                                             |
|                                                     | IRC-26-132<br><b>Short Communication: Development of a Realistic Thoracic Impact Test for PTW-to-Vehicle Crashes</b><br>D A Meringolo; J Carroll; Y-S Kang; J H Bolte<br><i>The Ohio State University, Autoliv, Injury Biomechanics Global Inc.</i>                                                                                                               |
| 14:10                                               | IRC-26-51<br><b>Tuned Rib Fracture Risk Functions for Human Body Models in Frontal and Side Impacts</b><br><br>J Heo; B Gepner; Z Sun; J Hallman; J Forman<br><i>University of Virginia, Toyota Motor North America</i>                                                                                                                                           |
| 14:26                                               | IRC-26-52<br><b>Influence of Rib Cortical Bone Age on Human Body Model Probabilistic Rib Fracture Risk Predictions</b><br>K-J Larsson; J Iraeus<br><br><i>Autoliv, Chalmers University of Technology</i>                                                                                                                                                          |
| 14:42                                               | IRC-26-53<br><b>Strain-based Rib Fracture Prediction Using HBMs: A Comparison of Simulations Using State-of-the-art Models to PMHS Tests Considering Uncertainty</b><br>F Ressi; V Kannan; B Schneider; C Klug<br><i>Graz University of Technology</i>                                                                                                            |
| 14:58                                               | IRC-26-54<br><b>Development of Lumbar Spine Injury Risk Function for 50th Percentile THUMS v4.1 VW Group Male Model</b><br>P Yadav; F Neumann; D Sahoo<br><br><i>VAIVA GmbH, Volkswagen AG, University of Munich</i>                                                                                                                                              |
| 15:15                                               | IRC-26-55<br><b>Development of an injury risk function for a HBM with a specific fracture in the lower extremities</b><br>C Klein; K Kljajić; O Zehbe; S Kirschbichler; W Leitgeb<br><i>Virtual Vehicle Research GmbH</i>                                                                                                                                         |

| Room A                        | Room B                                                                                                                                                                                                                                                                                                |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16:00 S1-8: Volunteer Testing | S2-8: Validation of Human Body Models                                                                                                                                                                                                                                                                 |
| 16:00                         | IRC-26-133<br><b>Towards Biofidelity Assessment of Upper Extremity of a 50th Percentile Male Finite Element Human Body Model</b><br>R B Iyer; A P Mehta; A Haderskog; C Lundgren; B Gepner; J L Forman<br><i>University of Virginia, Autoliv</i>                                                      |
| 16:16                         | IRC-26-134<br><b>Ability of Human Body Models to Represent Injury Patterns Observed in PMHS Tests and Field Data</b><br>D Draper; M Rees; P Wernicke; S Peldschus<br><i>BMW AG, LMU Munich</i>                                                                                                        |
| 16:24                         | IRC-26-135<br><b>Short Communication: The Influence of Element Formulation on Seated Pressure Predictions in a Human Body Model</b><br>D Pensado; S H Mischo; A Kalmar-Gonzalo; F S Gayzik<br><i>Wake Forest University Center for Injury Biomechanics</i>                                            |
| 16:32                         | IRC-26-136<br><b>Short Communication: Preliminary Facial Impact Model Evaluation for Micromobility Injury Assessment</b><br>S Abe; J Iraeus; M Svensson; J John<br><i>Chalmers University of Technology</i>                                                                                           |
| 16:40                         | IRC-26-137<br><b>Short Communication: Computational Simulation of Experimental Frontal Sled Tests with the GHBMC M50 Model</b>                                                                                                                                                                        |
| 16:48                         |                                                                                                                                                                                                                                                                                                       |
| 16:00                         | IRC-26-56<br><b>Repositioning Forward-leaning-vehicle Occupants During Normal Driving and Harsh Braking</b><br>J Davidsson; S Samadiboushehri; E Larsson; D Bråse; J Östh<br><i>Chalmers University of Technology, Autoliv, Volvo Cars</i>                                                            |
| 16:16                         | IRC-26-57<br><b>Short Communication: Characterisation of Driver Evasive Postures During Quasi-Realistic Collision Events</b><br>Z Zhao; G Kuang; T Lu; Q Zhou; B Nie; G Tierney; S Shang<br><i>Beijing Forestry University, Tsinghua University, Ulster University</i>                                |
| 16:24                         | IRC-26-58<br><b>Short Communication: Collision Reduction is Not the Whole Story: Injury-Oriented Safety Evaluation of Human–Vehicle Interaction Across Automated Driving Levels</b><br>D Qin; J Shen; H Wang; H Yu; K Zhao; Q Zhou; B Nie<br><i>Tsinghua University, Chongqing Changan Automobile</i> |
| 16:32                         | IRC-26-59<br><b>Short Communication: Optimised Reproduction of Coupled Longitudinal-Lateral Pre-Crash Accelerations Using a Rotated Low-G Sled Setup</b><br>N Fahse; P Rodegast; F Ressi; D Kofler; C Klug; J Fehr<br><i>University of Stuttgart, Graz University of Technology</i>                   |
| 16:40                         | IRC-26-60<br><b>Short Communication: Development of Spinal Geometry Corridors for Upright and Reclined Seated Postures</b><br>T Izumiyama; N Nishida; R Asahi; M Koike<br><i>Mazda Motor Corporation, Yamaguchi University Hospital</i>                                                               |
| 16:48                         | IRC-26-61<br><b>Short Communication: Volunteer Fall Experiments in Principal Fall Directions During Bus Braking Manoeuvres</b>                                                                                                                                                                        |

J-C Xu; A Carlsson; Z Zhou; C Ahlström; S Kleiven  
KTH Royal Institute of Technology, Swedish National Road and Transport Research Institute (VTI), Chalmers  
University of Technology, Linköping University

F Auriault; P Baudrit; P Petit; E Song  
CEESAR, LAB

16:56 IRC-26-62  
**Short Communication: Monocular Video-to-Kinematics Pipeline for Injury Reconstruction**

W Li; S Kleiven; X Li

KTH Royal Institute of Technology

16:56 IRC-26-138  
**Short Communication: PMHS-Based Validation of the HBM-Connect™ 50th Percentile Male in High-Speed Rearward-Facing Frontal Impacts on a Homogeneous Seat Bench**

R Tejero de la Piedra; M Riolet; T Arora; R Jagadish; Y-S Kang; Ö Dönmez; O Vaculin; A Soni; C Shah

Humanetics, The Ohio State University, TH Ingolstadt

17:04 IRC-26-139  
**Short Communication: Warping Points in Arc-Length-Based Averages Have a Substantial Effect on Computed Biomechanical Response Corridors and Objective Ratings Methods**  
D C Hartlen; D S Cronin  
University of Waterloo

17:30 Student-Get-Together (student delegates only)



Hofbräuhaus

19:30 Conference Dinner

Friday, 11 September 2026

Luggage in Room G

08:00 Registration

Room A

08:30 S1-9: Crash Data and Analysis I

Room B

S2-9: Tissue Mechanics

8:30 IRC-26-63  
**Causes of Spinal Injuries in Rear Crashes from the Crash Injury Research and Engineering Network (CIREN)**  
C S Parenteau; R W Rudd; D Camacho  
Design Research Engineering, National Highway Traffic Safety Administration (NHTSA), Camacho Consulting

8:46 IRC-26-64  
**Influence of Driver Stature and Seat Position on Injury Risk in Frontal Car Crashes: A Comparative Analysis of Field Data and Human Body Model Simulations**  
M Östling; D Schmidt; H Jeppsson; L Erikson; T Lich  
Autoliv, Robert Bosch

9:02 IRC-26-65  
**Using Police-Reported Rear-crash Data to Assess IIHS's Whiplash Prevention Evaluation**  
  
M L Brumelow; M A Edwards  
  
Insurance Institute for Highway Safety (IIHS)

9:18 IRC-26-66  
**Pedestrian Injury Severity Prediction Based on Logistic Regression Using Real-World Crash Data for AACN Systems**  
S Ejima  
Subaru Corp.

9:34 IRC-26-67  
**Short Communication: A Comparative Crash Database Study of Upper Extremity Injury Patterns among Car Occupants in the USA and Germany**  
A Hederskog; R Schindler; A P Mehta; J Forman  
Autoliv; University of Virginia

9:42 IRC-26-68  
**Short Communication: Relative Risk in Heavy Goods Vehicle Rollover Crashes Using Crash Databases from the USA, Germany and India**  
L Al-Salehi; A Ranmal; R Schindler; H Jeppsson; P A Crompton  
University of British Columbia, Autoliv

9:50 IRC-26-69  
**Short Communication: Intrusion Characteristics and Occupant Body Size in Driver Entrapment: An Attention-Based Analysis of Real-World Crash Data**  
Y Mei; F Sato; Y Miyazaki  
Institute of Science Tokyo, Japan Automobile Research Institute

8:30 IRC-26-140  
**Preliminary Investigation of the Tensile and Compressive Material Properties of Pelvis Cortical Bone Guided by Microstructural Imaging**  
D L Albert; R L Hunter; Z A Haverfield; A M Agnew  
Virginia Tech, The Ohio State University

8:46 IRC-26-141  
**High-resolution Computed Tomography (microCT) Technique for Capturing Soft Tissue Intervertebral Disc Changes After Repeated Loading**  
C F Morino; S T Middleton; E D Dimbath; J R Kait; J F Luck; C R D Bass  
Duke University, Wayne State University

9:02 IRC-26-142  
**Short Communication: Sex Differences in Distal Tibial 3D Bone Microstructure Explained by Body Size**  
Y Kim; A M Agnew; Y-S Kang; D Cronin; B Watson; D Boyle; Z Sun; A L Harden; R L Hunter  
  
The Ohio State University, University of Waterloo, Toyota

9:10 IRC-26-143  
**Short Communication: Strain-Based Interpretation of Lumbar Endplate Injury Risk Incorporating Creep Loading and Recovery Behavior**  
E D Dimbath; C F Morino; J F Luck; C R Bass  
Duke University, Wayne State University

9:18 IRC-26-144  
**Short Communication: Improving Injury Severity Repeatability in an in Vivo Porcine SCI Model Through an Analysis of Spinal Cord Stiffness During Impact**  
A Borjali; K So; A A Brown; N Manouchehri; J Mitchell; S Jarlsdottir; F Streijger; B Kwon; P /  
University of British Columbia

9:26 IRC-26-145  
**Short Communication: Comparison of Particulate Matter Eye Injury Between PMHS and Porcine Eye Surrogates**  
P K Thomas; E Ablordeppey; K Slaman; M A Greven; P J Brown; F S Gayzik  
Wake Forest University School of Medicine

9:34 IRC-26-146  
**Short Communication: Lung Shock Injury Behind Body Armor**  
  
D Pang; M Panzer; K Sirhan; J O Eynde; R Salzar; J McEntire; C Bass  
Wayne State University, University of Virginia, United States Army Aeromedical Research Laboratory (USAAARL)

9:42 IRC-26-147  
**Short Communication: Comparison of the Temporary Cavity Properties Observed in Gelatine Compared to Porcine Tissue**  
A M Paterson; T-T N Nguyen; A M J Bull; S D Masouros  
Imperial College

9:50 IRC-26-148  
**Short Communication: The Influence of Tension-Compression Switches on Brain Anisotropic Modelling**  
C Li; S Kleiven; Z Zhou  
KTH Royal Institute of Technology

Room C (coffee also available in rooms D and E)

10:00 Coffee break

| Room A                                  |                                                                                                                                                                                                                                                                                                                                                                                         | Room B                                    |                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:30 S1-10: Crash Data and Analysis II |                                                                                                                                                                                                                                                                                                                                                                                         | S2-10: ATD Model Development and Analysis |                                                                                                                                                                                                                                                                                                                                   |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                         | session sponsor                           |                                                                                                                                                                                                                                                                                                                                   |
| 10:30                                   | IRC-26-70<br><b>Deriving ISO 26262 S-parameters: Unifying Functional Safety Severity with RAPEX HARM</b><br>J Krampe; M Junge<br><i>Technical University Braunschweig, Volkswagen AG</i>                                                                                                                                                                                                | 10:30                                     | IRC-26-149<br><b>Influence of Initial Head Position on Concussion Risk in Rear-End Vehicle Collisions</b><br><br>K Gilliland; T Sims; J Colangelo; C Karton; T B Hoshizaki; C H Tator; A Azadi<br><i>University of Ottawa</i>                                                                                                     |
| 10:46                                   | IRC-26-71<br><b>Risk Factors for Lower Extremity Injuries across Injury Severity among Cab-over-engine Light Truck Occupants in Road Traffic</b><br>S Baek; K Lee; S Kim; C Kang; B Lee; O Kim<br><i>Yonsei University Wonju College of Medicine</i>                                                                                                                                    | 10:46                                     | IRC-26-150<br><b>Sensitivity Analysis of THOR-50M Thorax Injury Criteria to Test Variations in a Vehicle Driver Configuration</b><br>D Furukawa; A Eggers<br><i>Toyota, Federal Highway and Transport Research Institute (BAST)</i>                                                                                               |
| 11:02                                   | IRC-26-72<br><b>Closed-Group Injury Risk Functions for Frontal Crashes – Integrating Lethality and Long-Term Consequences</b><br>M Plenter; M Junge<br><i>Volkswagen AG</i>                                                                                                                                                                                                             | 11:02                                     | IRC-26-151<br><b>Evaluating Injuries in Cyclist–Car Accidents using Conventional Dummies and Human Body Models</b><br>S Tomassi; A Scattina; D Holder; J Fehr<br><i>Politecnico di Torino, University of Stuttgart</i>                                                                                                            |
| 11:18                                   | IRC-26-73<br><b>Injuries Leading to Permanent Medical Impairment among Road Users Groups</b><br><br>H Stigson; A Kullgren<br><i>Falksam Insurance Group</i>                                                                                                                                                                                                                             | 11:18                                     | IRC-26-152<br><b>A Finite Element Model of the Crash Test Dummy SET v0.2 50F for Low Severity Rear Impacts</b><br>A Linder; N Omichi; V Alvarez; S Hayashi; N Takagi; M Svensson; J D John<br><i>Swedish National Road and Transport Research Institute (VTI), Toyota, Lightness by Design, Chalmers University of Technology</i> |
| 11:34                                   | IRC-26-74<br><b>Lumbar Spine Injuries in front seat occupants in frontal collisions leading to Long-Term Consequences</b><br>S Schick; D Hynd; N Fattorini; M Wisch; J Saadé<br><i>Ludwig-Maximilians-University (LMU), Transport Research Laboratory (TRL), Federal Highway and Transport Research Institute (BAST), European Centre for Safety Studies and Risk Analysis (CEESAR)</i> | 11:34                                     | IRC-26-153<br><b>Lumbar Spine Injury Assessment of Frontal Crash Occupants: Translating HBM Metrics to THOR ATDs</b><br>S K Tushak; K Rawnska; J R Kerrigan; A F Caudillo-Huerta; B Gepner<br><i>University of Virginia</i>                                                                                                       |
| 11:50                                   | IRC-26-75<br><b>Zeroing in on Traffic Fatalities in the United States: Using a Safe System Attribution Schema to Determine Fatal Cases Eliminator by Automated Vehicle Fleet Conversion</b><br><br>E T Campolettano; J M Scanlon; K D Kusano; T Victor<br><i>Waymo</i>                                                                                                                  | 11:50                                     | IRC-26-154<br><b>Short Communication: Assessment of Ankle Injury Mechanisms in Vehicle Crashes: A Comparative Simulation-Based Study Using HBMs and an ATD</b><br><br>R B Iyer; B Gepner; M Jayathirtha; J Hallman; J Forman<br><i>University of Virginia, Autoliv, Toyota</i>                                                    |
| 12:06                                   | IRC-26-76<br><b>Short Communication: Airbag vest effectiveness in reducing thoracic injuries among PTW riders in road crashes: An epidemiological study</b><br>F Saint-Louis; L Agier; O Cherta-Ballester; V Honoré; O Monneuse; C Vernet<br><i>Gustave Eiffel University, In&amp;motion, Edouard Herriot Hospital</i>                                                                  | 11:58                                     | IRC-26-155<br><b>Short Communication: Comparison of 5th Percentile Female THOR ATD, THOR FE Model, and Human Body Model Chest Deflection in Frontal Crash</b><br>B Watson; K Tang; S Tylko; D S Cronin<br><i>University of Waterloo, Transport Canada</i>                                                                         |
| 12:14                                   | IRC-26-77<br><b>Short Communication: MMDLNet: A Multimodal Deep Learning Network for Post-Collision Injury Prediction</b><br>Z Zou; M Elsegood; G Ponte; S Doecke; A Majumdar; C E Baker<br><i>Imperial College, University of Bristol, Adelaide University</i>                                                                                                                         | 12:06                                     | IRC-26-156<br><b>Short Communication: Leveraging Abdominal Pressure Sensors in the THOR-05F Finite Element Model to Predict the Onset of Lap-Belt Submarining</b><br>A Kalmar-Gonzalo; B Koya; K Devane; F-C Hsu; D Sherman; C D Bass; C Bir; F S Gayzik<br><i>Wake Forest School of Medicine, Wayne State University</i>         |
| 12:22                                   | IRC-26-78<br><b>Short Communication: Demographic Patterns in Seating Position Among Crash-Involved Front-Row Occupants in Ohio, USA.</b><br>A L Harden; M E Cole<br><i>The Ohio State University</i>                                                                                                                                                                                    | 12:14                                     | IRC-26-158<br><b>Short Communication: Skull Fracture Risk Transfer from a Human Body Model to a Dummy Head for High Speed Impact Conditions</b><br>P Beillas; C Pozzi; M Gardegaront<br><i>Université Gustave Eiffel</i>                                                                                                          |
| Room A                                  |                                                                                                                                                                                                                                                                                                                                                                                         |                                           |                                                                                                                                                                                                                                                                                                                                   |
| 12:40 Conference Wrap-up & Prizes       |                                                                                                                                                                                                                                                                                                                                                                                         |                                           |                                                                                                                                                                                                                                                                                                                                   |
| Room C                                  |                                                                                                                                                                                                                                                                                                                                                                                         |                                           |                                                                                                                                                                                                                                                                                                                                   |
| 13:00 Take Away Lunch                   |                                                                                                                                                                                                                                                                                                                                                                                         |                                           |                                                                                                                                                                                                                                                                                                                                   |