



Program

Protection of Children in Cars

The Langwieder Conference

December 8 – 10, 2025,
Munich, Germany

The Conference

As a long-established international expert forum on child safety, the 23rd conference will provide an overview of trends in safety regulations and standards, discuss current research findings, and showcase safety features by Child Restraint System (CRS) and car manufacturers.

The conference contributions will not only address the needs and trends in developed countries but will also take a global view of CRS markets, field observations, consumer information, and safety programs worldwide. A special area of interest this year will be the safety of children transported by bicycle.

The conference is intended for

- safety engineers and accident researchers
- biomechanics experts, paediatricians, behavioral scientists
- representatives of regulatory bodies and consumer organizations
- promoters of safety campaigns
- specialists in vehicle and CRS rating systems
- scientists working in the field of child safety

Conference language

The conference language will be English.

Workshop December 8, 2025

14:30 – 17:00

ISOFIX 3.0

Chair: Bernd Lorenz, Bundesanstalt für Straßen- und Verkehrswesen (BAST)

Background and status of activities

Hans Lammers, RDW (NL)

iSize+ – 3rd ISOFIX anchor point – challenges for CRS manufacturer and OEM's

Stephan Schwald, Audi AG; Michael Schmitz, Britax Römer (DE)

CRS to vehicle communication

Michael Schmitz, Britax Römer, Stephan Schwald, Audi AG (DE)

The role of consumer information in product development and legislation

Chairs: Jessica Jermakian, IIHS (US)

Suzanne Tylko, Transport Canada (CA)

This session explores how consumer information programs could serve to communicate evidence-based information about child restraints to reduce misuse, influence product design, and complement regulation.

Panelists will discuss where these programs succeed, and where opportunities remain in the protection of children in crashes. Topics include how consumer information programs are changing the market, potential unintended consequences, remaining gaps, and how they can counteract misinformation.

December 9, 2025

09:30 **Welcome / Opening Remarks**

09:45 Keynote Speech

Every Child, Every Ride: Equity as the Engine for Child Passenger Safety Innovation

Sadiqa A.I. Kendi, Chief Medical Officer Safe Kids Worldwide (US)

Accident Research and Biomechanics (1)

Chair: Kristy Arbogast, Children's Hospital of Philadelphia

10:30 **Understanding how different child restraint system seatback angles affect spinal loading. A study with the PIPER model**

Francisco J. Lopez-Valdes, Manuel Valdano, Universidad Pontificia Comillas, MOBIOUS Lab (ES); Sophia Tushak, University of Virginia, Center for Applied Biomechanics (US)

10:55 **The influence of the use of the lower anchor in highback-to-backless booster seats in frontal-oblique impacts**

Valentina Graci, Children's Hospital of Philadelphia & Drexel University; Emily Thomas, Consumer Reports (US)

11:20 Coffee break

Accident Research and Biomechanics (2)

Chair: Suzanne Tylko, Transport Canada

11:50 **Evaluating pressure distribution in highback booster seats: A comparative study of anthropomorphic test devices and children**

Sarah Schleuning, Thomas Müller, Costandinos Visvikis, Cybex GmbH (DE)

12:15 **CRS usage in fatal car crashes in Sweden and the potential of reward facing CRS for injury outcome**

Maria Klingegård, Andres Kullgren, Helena Stigson, Andres Ydenius, Folksam Insurance Group; Anna Carlson, Chalmers; Katarina Boman, Isabelle Stockman, Lotta Jakobson, Volvo Cars; Rikard Fredriksson, Swedish Transport Administration (SE)

12:40 Lunch

Future Transport Challenges

Chair: Costandinos Visvikis, CYBEX GmbH

13:50 **Caregiver perspectives on reclined vehicle seatback configurations for booster-sized children**

Gretchen H. Baker, Julie A. Mansfield, Ohio State University; Rosalie R. Connell, Lafayette College; Valentina Graci, Children's Hospital of Philadelphia & Drexel University (US)

14:15 **Safer transport of children in buses and coaches, UN Regulation 170 Phase 2. Installation of Child Restraint Systems with 2-point belts**

Marta Anglès Torradeflot, Applus+ IDIADA Group (ES)

14:40 **Summary of the results of the pre-conference workshop**

Farid Bendjellal, retired Britax Child Safety (FR)

15:05 Coffee break

Standards and Rulemaking

Chair: Jessica Jermakian, Insurance Institute for Highway Safety (IIHS)

15:45 **Development of a Global Technical Regulation on children left in vehicles**

Ronald Vroman, ANEC (BE)

Consumer Information and Rating

Chair: Jessica Jermakian, IIHS

16:10 **Bridging the gap: Designing user-centred tools to increase appropriate booster seat and adult seatbelt use among children**

Stacie Powell, Tom Whyte, Nipuna Cooray, Lynne Bilston, Julie Brown, The George Institute for Global Health & Neuroscience Research & University of New South Wales (AU)

16:45 **Recommendations to improve child safety on the road: Main results of the OURSE Project**

Philippe Lesire, Stéphane Buffat, Franck Leopold, LAB; Sophie Cuny, Véronique Hervé, Jacques Saade, CEESAR; Christophe Ramond, Association Prévention Routière (FR)

17:10 End of first conference day
Evening Event

December 10, 2025

09:00 Special Lecture

Integrating biomechanics, epidemiology and human factors to improve safety for children in crashes

Kristy Arbogast, Children's Hospital of Philadelphia (US)

Test Procedures and Dummies

Chair: Philipp Wernicke, BMW Group

09:30 **CPD In-Vehicle Sensing: Study on sensor reflection in children compared to surrogate systems**

Christian zu Salm-Horstmar, Alexander Suarez Garcia de Leon, Alex Kiendl, MESSRING GmbH;

- Lea Siebler, Steffen Peldschus, LMU Munich; Volker Wintsche, Embedded AI (Linguwerk GmbH); Franz Waltl, Lars Weisgerber, AUMOVIO SE (formerly Continental Automotive); Melanie Kreutner, Allianz Zentrum für Technik (DE)
- 09:55 **Smart Child Restraint System (CRS): Potential hazards and standardization opportunities**
Andy Zhu, Goodbaby International Holdings Ltd and Eqo Testing and Certification (CN)
- 10:20 **Biomechanical assessment of the response of the Q6 dummy with booster seat on the new ADAC 2025 frontal test bench**
Daniele Speziani, Irene Rabino, Phitec Ingegneria Srl (IT); Andreas Ratzek, ADAC (DE)
- 10:45 Coffee break
- 11:15 **Extending the service life of child restraint systems through structured inspection protocols**
Gonzalo Daniel Casas Martínez, Francisco López Valdés, MOBIO Lab, Institute for Research in Technology, Universidad Pontificia de Comillas (ES)
- 11:40 **Unintended Consequences Associated with the 10-year-old ATD in Rear and Side Impact Crash Tests**
Suzanne Tylko, Kathy Tang, Transport Canada (CA)
- Test Safety of children transported by bicycle**
Chair: Heiko Johannsen, Medizinische Hochschule Hannover
- 12:05 **Crash tests and FEM simulations to investigate the safety of children transported by bicycle**
Marie Meincke, Gerd Müller, Steffen Müller, Technische Universität Berlin (DE)
- 12:30 **Child transportation safety in electric cargo bikes and urban micromobility devices: Evidence from the OURSE observational study**
Christophe Ramond, Association Prévention Routière, Philippe Lesire, Stéphane Buffat, Franck Leopold, LAB; Sophie Cuny, Véronique Hervé, Jacques Saade, CEESAR (FR)
- 12:55 Lunch
- 13:55 **Enhancing safety for child passengers on electric bicycles in China**
Shuaishuai Niu, Global Health Advocacy Incubator (CN)
- Field Observations**
Chair: Joachim Fausel, Mercedes-Benz AG
- 14:20 **Postural disorders and spinal development in toddlers: Comparative observations on early forward-facing versus extended rear-facing car seat use**
Alice Dona-Mitu, Mihaela Ferchiu, Children Car Safety Foundation; Dr. Alexandru Thierry, Monza Hospital Bucharest (RO)
- 14:45 **Specialty harnesses and vests for children and young people with disabilities in motor vehicles: an Australia-New Zealand review**
Helen Lindner, Emma Clarkson, Mobility and Accessibility for Children and Adults Ltd.; Julie Brown, The George Institute for Global Health; Michael Nieuwesteeg, Austroads; Tom Whyte, Transport for NSW (AU)
- 15:10 **Ireland's Road Safety Authority (RSA) strategy to address the issue of incorrect child car seat usage**
Fionnuala Daniels, Ron Richardson, Road Safety Authority Ireland
- 15:35 **Resume, outlook, and farewell**
Suzanne Tylko, Transport Canada

Program Committee

- **Andreas Ratzek**, ADAC e.V. (DE)
- **Stephan Schwald**, AUDI AG (DE)
- **Philipp Wernicke**, BMW Group (DE)
- **Bernd Lorenz**, Bundesanstalt für Straßen- und Verkehrswesen (DE)
- **Farid Bendjellal**, retired Britax Child Safety (FR)
- **Kristy Arbogast, Valentina Graci**, Children's Hospital of Philadelphia (US)
- **Costandinos Visvikis**, CYBEX GmbH (DE)
- **Ives Deul**, DEKRA Automobil GmbH (DE)
- **Jessica Jermakian**, Insurance Institute for Highway Safety (IIHS) (US)
- **Heiko Johannsen**, Medizinische Hochschule Hannover (DE)
- **Joachim Fausel**, Mercedes-Benz AG (DE)
- **Sjaan Koppel**, Monash University (AU)
- **Jiří Socha**, TÜV SÜD Czech s.r.o. (CZ)

Chairs

Philippe Lesire, LAB PSA/RENAULT (FR)

Suzanne Tylko, Transport Canada (CA)



Registration & Information

www.tuvsud.com/akademie/protection-of-children-in-cars



Conference Registration Fee

950,00 € plus VAT (if applicable)

50% discount for members of universities

The conference registration fee includes digital conference documentation, lunch, snacks and beverages during breaks as well as the evening event.

Attendance at the workshop is free for people who have registered for the conference.

Conference Venue

TÜV SÜD Headquarters

Algorithmus Building
Rüdesheimer Str. 10
80686 Munich, Germany

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