The Conference

New mobility concepts like car- or ride-sharing, automated/autonomous driving and increasing intermodality of traffic will influence future design and use of child restraint systems (CRS), as well as closer connectivity between car and CRS. In addition, we need to also focus on the basic safety requirements of CRS, their ease of installation and use, and the continuous provision of information and education for consumers by evidence-based safety campaigns.

As a worldwide forum of Child Safety, the conference has also to consider the needs and trends in developed and developing countries with a global overview to relevant safety regulations and to real-world accident research.

In addition to these special items, the standing topics of the past conference will continue to be a focus and recent developments in safety technology are reported in detail.

The 17th International Conference will again act as worldwide forum for safety engineers, accident researchers, experts in biomechanics, pediatricians, behavioral scientists, representatives of rulemaking, consumer organizations, promoters of safety campaigns and specialists in vehicle and CRS rating systems.

The conference language will be English.

Workshop on December 4, 2019

The day before the conference, a workshop entitled ‘Future Transport Configurations and Safety Culture’ will bring together people interested in understanding CRS use with respect to diverse safety cultures around the world. Based on short presentations, different aspects of child safety research will be intensively discussed with the audience, in order to highlight different points of view.

Workshop on December 4, 2019

Future Transport Configurations and Safety Culture
Chair: Philippe Lesire, LAB PSA Peugeot-Citroën Renault (FR)

14:30 SESSION 1: Future Transport Configurations

Preparing for the protection of children in autonomous vehicles
Lorrie Walker, Safe Kids Worldwide (US)

Children in obliquely oriented seats: The roles of seat orientation angle and belt type
Julie A. Mansfield, John H. Bolte IV, Injury Biomechanics Research Center, The Ohio State University; Aditya N. Belwadi, Children’s Hospital of Philadelphia; Hans W. Hauschild, Medical College of Wisconsin; Amanda M. Taylor, Civil Aerospace Medical Institute, Federal Aviation Administration (US)

15:30 Coffee break

16:00 SESSION 2: Safety Programs Worldwide

Educating the educators about transport safety of children: A study on child transport safety in Istanbul in Turkey
Serpil Acar, Loughborough University (UK)

Mobile Kids – CSR Program in India
Ritchika D’Souza, Mahesh Thaker, Naveen Kumar, Anita Pansare Thaker, Mercedes-Benz Research and Development India Pvt. Ltd.

Using CBT (computer based training) in promoting the study of car seat instruction manuals towards decreasing misuse of car seats
Peggie Mars, Rowlan Lustig, Wheel Well, South Africa

17:30 End of the workshop
Agenda on December 5, 2019

10:00 Welcome
Prof. Dr. Klaus Langwieder (DE)

Future Transport Challenges
Chair: Dr. Reiner Nett, Kegelmann Technik GmbH (DE)

10:15 Child occupant protection: autonomous driving systems
John Bolte IV, The Ohio State University, Injury Biomechanics Research Center; Kristy B. Arbogast, Children's Hospital of Philadelphia (US); Katarina Bohman, Lotta Jakobsson, SAFER – Vehicle and Traffic Research Centre at Chalmers and Volvo Cars (SE) representing all SAFER workshop 2019 attendees

10:45 Novelty seating positions in automated vehicles: opportunities and challenges for child seats
Ines Levallois, Patryk Recko, Faurecia Automotive Seating (FR); Katarina Bohman, Volvo Cars (SE); François Renaudin, Dorel Juvenile Group (FR)

11:15 Coffee break

11:45 Participants’ seating configuration and position preferences while travelling with their child occupants in fully automated vehicles
Sjaan Koppel, David Logan, Monash University, Accident Research Centre (AU); Katarina Bohman, Volvo Cars (SE); Jesús R. Jiménez-Octavio, Francisco J. Lopez-Valdes, Pontificia University Comillas (ES); Wassim Raphael, Saint-Joseph University of Beirut (LB); Leonardo Augusto Quintana Jimenez, Pontificia Universidad Javeriana, Colombia (CO)

12:10 PRE-SAFE® Child – Outlook into the future of Child Safety
Joachim Fausel, Dr. Hakan Ipek, Mercedes-Benz AG (DE)

12:40 Lunch

13:40 Keynote
Of road safety and children – the big picture
Matthew Baldwin, Deputy Director-General, European Coordinator for Road Safety and Sustainable Mobility, DG Move, European Commission

Standards and Rulemaking
Chair: Kristy Arbogast, Children’s Hospital of Philadelphia (US)

14:10 The last step in the completion of UN R129 Regulation – Inclusion of booster cushions
Farid Bendjellal, Mark Pitcher, Britax Childcare Group (DE); Marcel Brenner, Britax Römer Kindersicherung GmbH (DE); François Renaudin, Dorel Juvenile Group (FR); Thomas Müller, Costandinos Visvikis, CYBEX GmbH (DE); Marianne Hynd, Newell (UK)

14:40 Up to which age do children need a CRS?
Heiko Johannsen, Medizinische Hochschule Hannover and CSC Car Safety Consulting UG (DE)

15:05 Modification of the belt system assembly on the test bench to better simulate the response observed in passenger car crashes
Suzanne Tylko, Kathy Tang, Transport Canada; François Giguère, Alain Bussières, PMG Technologies (CA)

15:30 Coffee break

Performance of CRS
Chair: Joachim Fausel, Mercedes-Benz AG (DE)

16:00 The Latin American child restraint system assessment program PESRI
Ronald Vroman, International Consumer Research & Testing Ltd (UK); Andreas Ratse, ADAC e.V., Technik Zentrum (DE); Gonzalo Casas, Latin NCAP (UR); Rafael Tucci, Latin NCAP (UR)

16:25 Infant child seats with support legs: Implications to the vehicle, a sled-based study
Aditya Belwadi, Srahari Menon, Amanda Astrologo, Shreya Sarfare, Jalaj Maheshwari, Center for Injury Research and Prevention, Children’s Hospital of Philadelphia (US)

16:50 Support leg as key feature in UN ECE Regulations
Farid Bendjellal, Britax Childcare Group; Heiko Johannsen, CSC Car Safety Consulting UG (DE)

17:05 The influence of booster cushion design on dummy kinematics and loading, using the PIPER model and the Q10 in frontal impacts
Katarina Bohman, Lotta Jakobsson, Maria Wimmerstedt, Helena Wallin, Jacob Wass, Jonas Östh, Volvo Cars Safety Centre (SE)

17:30 End of first conference day

Evening Event
Agenda on December 6, 2019

Modelling and Dummies
Chair: Heiko Johannsen, MHH (DE)

09:00 Q10 Euro NCAP 2020 dummy FEA model development
Apoorva Lakshminarayana, Humanetics Europe GmbH (DE); Vinit Manjarekar, Renuka Jagadish, Humanetics Innovative Solutions (US)

09:25 Analysis of sensors in the PIPER child human body model based on Q6 dummy sensors for multidirectional occupant load cases
Johannes Holtz, Gerd Müller, Steffen Müller, Stefanie Marker, Technische Universität Berlin (DE)

09:50 First evaluation of the Q10 Euro NCAP update in sled test environment with respect to restraint interaction and dummy signals
Philipp Wernicke, BMW Group; Christian Gehre, Partnership for Dummytechnologie and Biomechanics (DE)

10:15 Coffee break

Dummies and Test Procedures
Chair: Bernd Lorenz, Federal Highway Research Institute BASt (DE)

11:05 Evaluation of Cellbond’s Q10 upgrade kit in R129 frontal testing
Mark Pitcher, Farid Bendjellal, Britax Childcare Group; Florian Berg, Britax Römer Kindersicherheit GmbH (DE)

11:30 Effect of the Q10 dummy upgrade kit on the assessment of booster systems
Costandinos Visvikis, Christoph Thurn, Thomas Müller, CYBEX GmbH (DE)

11.55 Q10 2020 test results
Kees Waagmeester, Bernard Been, Mark Burleigh, Humanetics Europe GmbH (NL/UK)

12:05 Impact of vertical pitch in frontal crashes on ATD injury metrics
Dion Besselink Code Product Solutions B.V. (NL); Matthew R. Maltese, University of Pennsylvania (US); Paul Gaudreau, UPPAbaby (US)

12:45 Lunch

Field Studies and Safety Campaigns
Chair: Jessica Jermakian, Insurance Institute for Highway Safety (IIHS) (US)

13:45 Update on GIDAS accidents involving children in cars
Michael Jänisch, Heiko Johannsen, Medizinische Hochschule Hannover (DE)

14:10 Misuse of Child restraint systems: Additional aspects of the 2017 GDV field study
Gerd Müller, Technische Universität Berlin; Matthias Kühn, German Insurers Accident Research (DE)

14:35 Child restraint knowledge and behavior among Israeli parents: Comparative survey findings
Daniela Orr, Elad Calif, Shlomi Tal, Beterem – Safe Kids Israel

15:00 Child restraint system design features and their association with child occupant behaviour
Suzanne L. Cross, Sjaan Koppel, Judith L. Charlton, Monash University; Bianca Albanese, Julie Brown, Lynne E. Bilston, Neuroscience Research Australia (AU), Katarina Bohman, Volvo Cars (SE); Kristy B. Arbogast, Children’s Hospital of Philadelphia (USA)

15:25 Resumé, outlook and farewell
Program Committee

ADAC e.V. (DE)
Dr. Reinhard Kolke

AUDI AG (DE)
Stephan Schwald

BMW Group (DE)
Jana Olivier

Bundesanstalt für Straßenwesen (DE)
Bernd Lorenz

Britax Childcare (DE)
Farid Bendjellal

Children’s Hospital of Philadelphia (US)
Kristy Arbogast, PhD

DEKRA Automobil GmbH (DE)
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Transport Canada (CA)
Suzanne Tylko

TÜV SÜD Czech s.r.o. (CZ)
 Jiří Socha, Ph.D.

Chairmen

Prof. Dr. Klaus Langwieder

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Registration & Information

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Conference Registration Fee

860,00 € plus VAT (50 % discount for members of universities)
The conference registration fee includes conference documentation, lunch, snacks and beverages during breaks as well as the evening event.

Conference Venue

TÜV SÜD · Auditorium Chiemsee
Westendstraße 199, 80686 Munich, Germany
You will receive travel and hotel information with the confirmation of your registration.