Protection of Children in Cars

15th International Conference
Achievements in the Past and Targets in Future

December 7 – 8, 2017,
Munich, Germany
Join the 15th anniversary

The Conference 2017 is dedicated to review the past and the future of CRS development. What has been achieved in the past and is now international state of the art and which are the concrete tasks of the future in regulation, product innovation and consumer acceptance. Are different strategies needed in countries with high CRS awareness and countries with emerging CRS use? Which benefits are still to be expected by technical innovation and which permanent safety campaigns are necessary to promote consumer behaviour. This will also be in the focus of the panel discussion on the first conference day.

Besides these substantial questions of child safety, the standing topics of the conference in the past will be updated and recent developments worldwide will be reported.

This 15th International Conference will act as worldwide forum for safety engineers, accident researchers, experts in biomechanics and pediatricians, representatives of rulemaking, consumer organizations, promoters of safety campaigns and specialists in car/CRS rating procedures.

The conference language will be English.

Workshop on December 6, 2017

**Child Safety in Traffic**
Chair: Philippe Lesire, LAB PSA Peugeot-Citroën Renault (FR); Jana Olivier, BMW Group (DE)

14:00 – 15:00: Session 1: Specific needs
- Child heatstroke in cars: research and prevention
  Sharon Levi, Avital Epel, Niri Harel, Shlomi Tal, Beterem – Safe Kids Israel
- A child seat for children with brittle bone disease
  Jesús Monclús, Fernando Camarero Rodríguez, Fundación MAPFRE; Sergi Ferris, Albert Garcia, SafeDesign (ES)
- Injury criteria for children affected by Osteogenesis Imperfecta
  Luis Martínez, Marta de Loma-Ossorio, Rafael Pérez, Manuel Espantaleón, INSIA-UPM (ES); Viridiana Ramírez, Christopher René Torres, ESIME-IPN (MX)
  (short presentation and written paper)

15:00 – 15:30: Session 2: Field data collection
- Sharing the experience on methodology of field surveys: improvements, and harmonisations that could lead to comparable samples
  Quentin Lequeux, Annelies Schoeters, Vias institute (BE); Philippe Lesire, LAB Peugeot Citroën Renault (FR)

15:30 Coffee break

16:00 – 17:30: Session 3: Educational programs
- MOBILEKIDS – a Daimler CSR initiative
  Sylvia Hirsch, Daimler AG (DE)
- Safety Program „AUVA-CoPilotenTraining“
  Peter Jahn, Child Safety Consultant, Austrian Federal Ministry for Transport, Innovation and Technology (AT)
- Effectiveness study of an educational program on road safety for children in fourth grade
  Anna Kern, BMW AG (DE)

Workshop

On December 6, 2017 a workshop on child safety in traffic in general will bring together people interested in specific needs, field data collection and educational programs.

The access to the workshop is free for registered participants of the conference.

Program Committee

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AUDI AG (DE)
Stephan Schwald
BMW Group (DE)
Jana Olivier
Federal Highway Research Institute BASt (DE)
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Britax Childcare (DE)
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Chairman
- Prof. Dr. Klaus Langwieder
  International Safety Consulting (DE)
- Philippe Lesire
  LAB Peugeot Citroën Renault (FR)
Agenda on December 7, 2017

09:15 Welcome
TÜV SÜD and Prof. Dr. Klaus Langwieder

09:30 Keynote
I-Size regulation – The process of establishing criteria for ECE R129 Phase 3 – different steps and challenges
Pierre Castaing, UTAC CERAM/President and Chairman of the Board of Directors Euro NCAP

Achievements in the Past and Targets in Future
Chair: Bernd Lorenz, Federal Highway Research Institute BASt (DE)

10:00 Protecting children and youth in cars: highlighting non-nominal cases and the user experience
Kristy B. Arbogast, Children’s Hospital of Philadelphia (USA); Katarina Bohman, Lotta Jakobsson, Volvo Cars (SE) representing all SAFER workshop 2017 attendees

10:25 A descriptive study of booster seat characteristics in the US market
Jessica Jermakian, Insurance Institute for Highway Safety (USA)

10:50 Rearward facing child seats – past, present and future
Lotta Jakobsson, Volvo Cars (SE)

11:15 Coffee break

Panel Discussion:
11:45 Achievements in the Past and Targets in Future
Participants: CRS manufacturers, car makers, regulatory institutions, research institutes and consumer organizations
Moderators: Klaus Langwieder, International Safety Consulting (DE), Philippe Lesire, LAB Peugeot Citroën Renault (FR)

13:00 Lunch

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

14:00 Development of R129-Phase III: Potential effects of draft requirements on the product range of future Enhanced Child Restraint Systems
David Braun, Farid Bendjellal, Britax Childcare Group (DE)

14:25 Evaluating Regulation 129 child restraints with higher mass percentile occupants
Mark Pitcher, Jolyon A. Carroll, T. Robinson, TRL Ltd. (UK)

14:50 Towards a future regulation for extended rearward facing child seats
Okke van Mourik, HTS BeSafe (NO/NL)

Test Procedures and Dummies
Chair: Stephan Schwald, Audi AG (DE)

15:10 Crash pulse influence on performance of forward facing child restraint systems in side oblique loading conditions
Hans Hauschild, John Humm, Narayan Yoganandan, Frank Pintar, Bruce Kaufman, Medical College of Wisconsin; Kristy Arbogast, Matthew Maltese, Children’s Hospital of Philadelphia (USA)

15:35 Coffee break

16:05 ATD measurements to help better describe the kinematics of the 6 year-old restrained with a seat belt
Suzanne Tylko, Transport Canada; Alain Bussière, Karim El Hallaoui, Amanda Starr, PMG Technologies (CA)

16:30 Kinematics comparison between the Hybrid III 6 year old with standard pelvis and modified pelvis with gel abdomen in booster sled tests
Jessica Jermakian, Marcy Edwards, IIHS (USA)
09:20 User-centred child restraint product information reduces misuse: Results from a randomised and controlled laboratory trial
Alexandra Hall, Julie Brown, J. Bilston, C. Ho, B. Albanese, Neuroscience Research; L. Keay, K. Hunter, The George Institute for Global Health; J. L. Charlton, Monash University; A. Hayen, The University of Technology Sydney (AU)

09:45 Evolutions in the use and misuse of child restraint systems in Belgium and a perspective towards the future
Annelies Schoeters, Quentin Lequeux, Vias institute (BE); Philippe Lesire, LAB Peugeot Citroën Renault (FR)

10:10 Coffee break

10:40 Side impact applications of the PIPER scalable child human body models
Philippe Beillas, Anicet Le-Ruyet, Marie-Christine Chevalier, University of Lyon-Ifsttar (FR)

11:05 Human body simulation in misuse cases for booster seated children
Johannes Holtz, Gerd Müller, Steffen Müller, Technische Universität Berlin (DE)

11:30 Trends in the use and performance of child restraint systems: Analysis of the United Kingdom’s Road Accident In-Depth Studies (RAIDS)
Costandinos Visvikis, CYBEX GmbH (DE); R. Khatry, TRL Ltd. (UK)

11:55 Efficacy of booster seat design on the response of the Q6 ATD in simulated frontal sled impacts
Aditya Belwadi, Nhat Duong, Seth Fein, Jalaj Maheshwari, Children’s Hospital of Philadelphia, Center for Injury Research and Prevention (USA)

12:15 Height-less, folding booster seats: advanced, compact and portable – but how safe?
Jon Sumroy, Carfoldio Ltd. mifold (IL)

12:35 Lunch

13:35 Safety performance of belts in frontal tests of ISOFIX booster seats
Yoshinori Tanaka, Naruyuki Hosokawa, Yasuhiro Matsui, National Traffic Safety and Environment Laboratory (JP)

14:00 Child dummy behaviors depending on vehicle and CRS types and CRS development to ensure dummy behavior stability
Taesu Park, Seungkyu Kang, Hyundai Motor Company (KR)

14:25 Front passenger airbag interaction with restrained forward-facing children
Frederik Heurlin, Lotta Jakobsson, Volvo Cars (SE)

14:50 Resumé, outlook and farewell
Prof. Dr. Klaus Langwieder (DE)

15:00 End of the conference
Registration at any time at

www.tuev-sued.de/protection-of-children-in-cars
congress@tuev-sued.de

Conference Price
840,00 € plus VAT (50 % discount for members of universities)
The registration fee includes conference documentation, lunch 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.

Registration and Information
TÜV SÜD Akademie GmbH
International Conferences
Viktoria Wieland
Westendstraße 160
80339 Munich, Germany
Phone +49 89 5791-2410
Fax +49 89 5155-2468
Email: congress@tuev-sued.de