Protection of children in cars

12th International Conference, December 4–5, 2014
Munich, Germany
The conference

The 12th International Conference reflects strongly the worldwide activities to improve the protection of children in road vehicles. The implementation of new regulations in global markets worldwide, comparable test procedures and improved compatibility of cars and booster seats are focal items in 2014. New targets have been defined, for example by the I-Size regulation, technically upgraded CRS and field studies observing the effectiveness of CRS; recent results will be reported. Safe transport in buses and coaches shall be discussed in a special session.

The preceding workshop on socio-cultural aspects and intensified safety campaigns is dedicated to child safety trends and consumer acceptance in different regions of the world.

This conference will again – as in the past years – act as worldwide forum for safety engineers, accident researchers, experts in biomechanics and paediatricians, representatives of rule making, consumer organizations, promoters of safety campaigns and specialists in car / CRS rating procedures.

**CONFERENCE PRICE AND VENUE**

**810,00 € 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.

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

**Workshop on December 3**

**Child safety and cultural approach**  
Chairman: Philippe Lesire, LAB PSA Peugeot-Citroën Renault

13:00 – 14:00: **Session 1: Safety Campaigns**

- ‘Check it Fits’ Campaign – Child Car Seat Checking Service  
  Aisling Leonard, Road Safety Authority (IRL)

- Direct approach to teach the affected population: children in primary school  
  Jana Olivier, Philipp Wernicke, BMW Group (DEU)

14:30 – 15:30: **Session 2: Field Experiences**

- Improving child and adolescent occupant protection in Australia and the Western Pacific: a review of activities within the decade of action for road safety  
  Sjaanie Koppel, David Logan, Michael Fitzharris, Brian Fildes, Judith L. Charlton, Monash University Accident Research Centre (AUS)

- Magnitude, trends, and associated factors of road traffic collision in central Ethiopia  
  Fekede Asefa, Gezahegn Tesfaye, Haramaya University, College of Health and Medical Sciences (ETH)

- Increasing child passenger safety via a national action plan  
  Sharon Levi, Shira Kislew, Esti Golan, Shlomi Tal, Beterem – safe kids Israel

15:40 – 16:40: **Session 3: Sharing experiences „Child safety in cars in China”**

- Market’s opportunities and specificities in China: a CRS manufacturer point of view  
  Mark Pitcher, TRL (UK); Hal Huang, IQTC (Guangdong Inspection and Quarantine Technology Center), China

- Reporting on “Improving Child Safety Awareness and Law Enforcement” conference – Shanghai 10/2014  
  Yu Feng, Shanghai Motor Vehicle Inspection Center (CHN)

**Program Committee**

- ADAC e.V., Prof. Dr. Reinhard Kolke  
  Audi AG, Germany, Stephan Schwald

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**Chairmen**

- Prof. Dr. Klaus Langwieder, International Safety Consulting

- Philippe Lesire, LAB PSA Peugeot-Citroën Renault, France
Agenda on December 4, 2014

09:30 Welcome
Prof. Dr. Klaus Langwieder, International Safety Consulting (DEU)

09:45 Children in cars – News from the German government
MDrIng Guido Zielke, Bundesministerium für Verkehr und digitale Infrastruktur (DEU)

10:00 Needs and challenging approach for future research activities on the protection of children in cars
Philippe Lesire, LAB Peugeot Citroën Renault (FRA), Heiko Johannsen, Verkehrsunfallforschung Hannover (DEU), Philippe Beillas, Ifsttar – Université Lyon (FRA)

Standards and Rulemaking
Chair: Prof. Dr. Klaus Langwieder (DEU)

10:15 Status of NHTSA’s research and rulemaking activities on child passenger safety
Cristina Echemendia, Allison Louden, National Highway Traffic Safety Administration (USA)

10:45 Regulation R129 Phase II non integral child restraints: A major step towards compatibility of cars and booster seats
Farid Bendjellal, Britax Group (DEU); François Renaudin, Dorel Juvenile (FRA); Pierre Causcia, UTAC CERAM (FRA); Britta Schnottale, Bundesanstalt für Straßenwesen (DEU), Philippe Lesire, LAB Peugeot Citroën Renault (FRA)

11:10 Coffee break

11:45 Overview of the implication of children as car occupants in road accidents in France
Franck Léopold, Philippe Lesire, Cyril Chauvel, LAB Peugeot Citroën Renault (FRA), Vuthy Phan, Veronique Hervé, CEESAR (FRA)

12:10 Update on GIDAS accidents involving children in cars
Heiko Johannsen, Dietmar Otto, Verkehrsunfallforschung Hannover (DEU)

12:35 Child passenger safety in Spain: General statistics, study of fatal crashes and long term consequences
Jesús Moncloés, Julio Laria, MAPFRE Foundation (ESP); Elena Águero, Bartolomé Vargas, Road Safety Prosecutor’s Office (ESP); Juan-José Vázquez, Pediatric Surgery Department, Hospital Central de Asturias (ESP)

13:00 Lunch

14:00 Children in fatal motor vehicle accidents in Finland in 2003 – 2012
Kalle Parkkari, Niina Sihvola, Finnish Motor Insurers’ Centre / VALT (FIN)

14:25 Keeping children safe in vehicles: An observational study in Malaysia
Jennifer Oxley, Monash University (AUS), A. Jamaludin, Monash University, Kuala Lumpur (MYS)

14:50 Use and misuse of child restraint systems in Poland. Statistics and CRS installation problems based on field studies in 2012 – 2014
Anna Markowska, Pawel Kurpiewski, Paulina Zielinska, 4CPS – for Child Passenger Safety (POL)

15:15 Vehicle factors associated with LATCH use and correct child restraint installation at child safety seat checkup events
Jessica Jermakian, Jessica Cicchino, Insurance Institute for Highway Safety (USA)

15:40 Coffee break

16:10 How are children protected while travelling in buses and coaches? Descriptive and in depth analysis of French and German accident data
Michael Jänsch, Heiko Johannsen, Dietmar Otto; Verkehrsunfallforschung Hannover (DEU); Véronique Hevre, Vuthy Phan, CEESAR (FRA); Philippe Lesire, LAB Peugeot Citroën Renault (FRA)

16:35 Study of child occupant safety in vehicles specially made for carrying toddlers and juveniles in frontal crashes
Yoshinori Tanaka, Naruyuki Hosokawa, Daisuke Yamaguchi, Yasuhiro Matsui, National Traffic Safety and Environment Laboratory; Koji Mizuno, Nagoya University, Ryoichi Yoshida, Takata Corp. (JPN)

17:00 Development of a school bus seat with integrated lap-shoulder belts
Charles Vits, SafeGuard/IMMI (USA)

17:25 End of first conference day
Evening Event
Agenda on December 5, 2014

Test Procedures and Dummies (Part 1)
Chair: Heiko Johannsen, Verkehrsunfallforschung Hannover (DEU)

08:30 Comparative tests of child restraint systems in Latin America
Ronald Vroman, ICRT (UK/NL); Alejandro Furas, Global NCAP (URY); Andreas Ratzek, Volker Sandner, ADAC (DEU)

08:55 CRS Comparison tests between 11 labs in China
Yu Feng, Shanghai Motor Vehicle Inspection Center (CHN)

09:20 Vehicle head restraint design influence on head excursions of CRS restrained child occupants in side impact testing
Hans Hauschild, John Humm, Narayan Yoganandan, Frank Pintar, Medical College of Wisconsin; Kristy Arbogast, Matt Maltese, Children’s Hospital of Philadelphia (USA)

09:45 Paired comparison of the Hybrid III 10-year-old and Q10 seated in the rear seats of vehicles undergoing frontal crashes
Suzanne Tylko, Transport Canada (CAN); Alain Bussières, PMG Technologies (USA)

10:10 Coffee break

Test Procedures and Dummies (Part 2)
Chair: Bernd Lorenz, Bundesanstalt für Straßenwesen (DEU)

10:40 Research on the difference of child anthropomorphim test device and human model in child restraint systems
Xuerong Zhang, Jiangsu University (CHN); Cornelia Lawall, Carina Klimitsch, CYBEX GmbH (AUT); Christoph Thurn, CYBEX GmbH (DEU)

11:05 Evaluation of shield and harness systems in frontal impact sled experiments
Costandinos Visvikis, Mark Pitcher, TRL (UK)

11:30 Assessment of abdominal loading by shield CRS in frontal impact: comparison between direct loading in isolated tests and sleds
Philippe Beillas, Anurag Soni, Ifsttar – Université Lyon (FRA)

11:55 A study on restraint systems in offset deformable barrier crash tests
Jean-Philippe Lepretre, Pierre Castaing, UTAC-CERAM (FRA)

12:20 Lunch

Development of Safety Products by CRS and Car Manufacturers
Chair: Stephan Schwald, AUDI AG (DEU)

13:20 Booster seats versus booster cushions
Reiner Nett, TAKATA AG (DEU)

13:45 Rear seat restraint system development covering children and adults
Hakan Ipek, Joachim Fausel, Rodolfo Schöneburg, Daimler AG (DEU)

14:10 Airbag integration in a CRS to improve child protection
François Renaudin, Nicolas Garnier, Dorel (FRA); Alexandre Quarrey, HELITE (FRA)

14:35 CRS misuse: Development of a technical solution to address one of the frequent misuse situations
Farid Bendjellal, Britax Childcare Group; Richard Frank, Frank Heliger, Britax Römer (DEU)

15:00 Resumé, outlook and farewell
Prof. Dr. Klaus Langwieder

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

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

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