The conference

The experience with the harmonization and implementation of the two regulations – the ECE-R 44 and the updated ECE-R 129 – in markets worldwide will be reflected in detail. The new test requirements of EURO NCAP starting in 2016, the new CRS/Car compatibility requirements and in-depth analysis of improved accessibility of ISOFIX anchorages are another focal aim at this year’s conference. In a special session, progress of human models, their validation and new scaling procedures as well as upgraded anthropometric field studies will be reported.

With those comprehensive targets, the 14th Conference Protection of Children in Cars intends to act as worldwide forum for safety engineers, accident researchers, experts in biomechanics and pediatricians, representatives of rule making, consumer organizations, promoters of safety campaigns and specialists in car/CRS rating procedures.

Workshop

On December 7, 2016 a workshop on child safety and cultural approach will bring together people interested in understanding CRS use with respect to safety culture. Safety campaigns in different regions of the world and enhanced education programs will be reported in order to promote child safety worldwide.

The access to the workshop is free for registered participants of the conference.
Agenda on December 8, 2016

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

09:45 Keynote
Vehicles and child safety and the Global Goals
David Ward, Secretary General, Global NCAP

Chair: Prof. Dr. Klaus Langwieder (DE)

10:15 The 2016 Euro NCAP COP Test: First Experiences
Michiel van Ratingen, James Ellway, Richard Schram, Euro NCAP

10:45 The sensitivity of UN Regulation No. 129 to differences in abdomen protection afforded by booster seats
Costandinos Visvikis, Cornelia Krebs, CYBEX GmbH (DE/AT)

11:15 Coffee break

Consumer Information
Chair: Joachim Fausel, Daimler AG (DE)

12:00 Child passenger safety consumer information ratings programs in the United States
Jessica Jermakian, Insurance Institute for Highway Safety (US); Jennifer Stockburger, Consumer Reports (US)

12:25 Are booster child restraints effective at protecting older children?
Mark Pitcher, Tanya Robinson, Abdullah Baig, TRL Ltd. (UK)

12:50 Lunch

Development of Safety Products by CRS and Car Manufacturers
Chair: Reiner Nett, TAKATA AG (DE)

14:00 Challenges in child occupant simulations
Hakan Ipek, Joachim Fausel, Daimler AG (DE)

14:25 Retention of rear seat occupants during emergency turns – effect of seatbelt pre-pretensioner
Katarina Bohman, Autoliv Research and Karolinska Institutet; Lotta Jakobsson, Volvo Car Corporation and Chalmers University of Technology; Isabelle Stockman, Chalmers University of Technology (SE)

14:50 Development of a child restraint system seat to meet Euro NCAP 2016 crash performance requirements
Farid Bendjellal, Britax Childcare Group; Joachim Fausel, Daimler AG; Richard Frank, Martin Haas, Britax Römer (DE)

15:15 Injury of older children passenger for 2nd row seats depending on the adult restraint system and the CRS harness belt
Seungkyu Kang, Sungung Ryu, Jonghun Choi, Woonjeong Park, Changin Paek, Hyundai Motor Company (KR)

15:40 Coffee break

Child Human Body Models
Chair: Heiko Johannsen, Medizinische Hochschule Hannover (DE)

16:15 Development and performance of the PIPER scalable child human body models
Philippe Beillas, Xingjia Ying, Marie-Christine Chevalier, University of Lyon-Istitar (FR); Chiara Giordano, Victor Alvarez, Xiaogai Li, Svein Kleiven, Royal Institute of Technology KTH (SE); Stefan Kirsch, TU Berlin (DE)

16:40 Head protection of the newborn child in side impact: effectiveness of the R129 regulation confirmed by simulations with an anatomical FE model
Bérenger Le Tellier, Frank Meyer, Nicolas Boudet, Caroline Deck, Rémy Willinger, Strasbourg University, ICube laboratory; Sylvaine Pormente, François Renaudin, Dorel Juvenile (FR)

17:05 Brain injury assessment in crash events with and without head contact
Christopher Polster, Matthew R. Maltese, The Children’s Hospital of Philadelphia and University of Pennsylvania, Department of Bioengineering (US)

17:30 End of first conference day

Agenda on December 9, 2016

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

09:00 Experiences with the abdominal sensors for Q3 dummy within the European Child Restraint Test (ETC)
Andreas Ratzek, ADAC e. V. (DE)

09:30 Chest injuries to child occupants seated in 5-point harness and impact shield CRS based on dummy tests, FE simulations and animal tests
Yong Han, Xiamen University of Technology; Jun Ouyang, Southern Medical University; An Guo Cang, Guangdong Inspection and Quarantine Technology Center (CN); Koji Mizuno, Nagoya University (JP)
10:00  Evaluating child safety innovations: have we got the right tools and the right test methodologies?
Suzanne Tylko, Transport Canada; Alain Bussières, Amanda Starr, PMG Technologies (CA)

10:30  Coffee break

Field Data and Compatibility
Chair: Farid Bendjellal, Britax Childcare Group (DE)

11:00  Child Safety in Cars: Current Risks and Problems
Peter Spitzer, Holger Till, Research Center for Childhood Accidents at Safe Kids Austria and Medical University of Graz (AT)

11:25  Real world analysis of in-car child occupant safety in China
Bo Sui, Shengqi Zhou, Autoliv Vehicle Safety System Technical Center Shanghai (CN); Nils Lubbe, Autoliv Research (SE)

11:50  Compatibility of booster seats and vehicles in the US market
Julie A. Bing, Amanda M. Agnew, John H. Bolte IV, Injury Biomechanics Research Center, The Ohio State University (US)

12:15  Lunch

13:15  International comparison of the protection of children in cars based on the IGLAD accident data base
Heiko Johannsen, Michael Jänsch, Accident Research Unit, Medizinische Hochschule Hannover; Britta Schnottale, Claus Pastor, Bundesanstalt für Straßenwesen (DE)

13:40  Evaluating the individual and combined effects of child restraint misuse
Miriam Manary, Kathleen Klinich, Matthew Reed, Carol Flannagan, Nichole Orton, University of Michigan Transportation Research Institute (US)

14:05  The Restraint Quality Indicator (RQI): proposal of a method for quantifying the consequences of specific misuse modes for children travelling in motor vehicles based on European experience
Philippe Lesire, LAB Peugeot Citroën Renault (FR); François Renaudin, Dorel Juvenile (FR); Gerd Müller, Technische Universität Berlin (DE); Thomas Hummel, Gesamtverband der Deutschen Versicherungswirtschaft e. V. (DE)

14:30  Resumé, outlook and farewell
Prof. Dr. Klaus Langwieder, International Safety Consulting (DE)

14:45  End of the conference

Conference language
Conference language will be English.

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Workshop on December 7, 2016

Child Safety in Traffic
Chairman: Philippe Lesire, LAB PSA Peugeot-Citroën Renault (FR)

14:00 – 15:30: Session 1

- Making Headway – CRS Campaign in Turkey
  Memiş Acar, B. Serpil Acar, Loughborough University (UK)
  TBA, Childrens Safety in Cars Campaign, “Trafik Hayattır”, Doğuş Automotive, Turkey

- To cast seed on fruitful ground: educating children in vehicle safety
  Jana Olivier, Philipp Wernicke, BMW Group (DE)

- Safety of babies, children and youth in cars
  Sandra Nascimento, Portuguese Association for Child Safety Promotion; Gregoria Paixão von Amann, Ministry of Health; Ines Silva, MAPFRE Foundation; Joana Azevedo, Dorel Industries (PT)

- Child occupant protection & implementation of child restraint systems in India – An overview
  Dileep Kulkarni, G. D. Manakeshwar, A. V. Mannikar, The Automotive Research Association of India

16:00 – 17:30 Session 2

- The Child Safety in Cars International Collaborative Study: Early findings and lessons learned
  Kristy Arbogast, H. Loeb, The Children’s Hospital of Philadelphia (US); Katarina Bohman, Autoliv Research and Karolinska Institutet; Lotta Jakobsson, Volvo Car Corporation and Chalmers University of Technology; Mats Svensson, Isabelle Stockman, Chalmers University of Technology (SE); Judith Charlton, Sjaanie Koppel, Suzanne Cross, Jonny Kuo, Monash University, Accident Research Centre (AU); C. Rudin-Brown, Human Factors North, Inc, (CA)
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Chairman  
- Prof. Dr. Klaus Langwieder (DE)  
  International Safety Consulting  
- Philippe Lesire (FR)  
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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  
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You will receive travel and hotel information with the confirma-  
tion of your registration.

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