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## Protection of Children in Cars

16<sup>th</sup> International Conference

December 6 – 7, 2018,  
Munich, Germany

**WORKSHOP  
ON DECEMBER 5**

## The Conference

The 2018 Conference offers a detailed view on international CRS markets, their relevant safety regulations / testing systems and results from accident studies, showing improvement but still challenges in the future. New mobility concepts and transport configurations up to future autonomous vehicles may influence the design, the use of child restraint systems and safety cultures in general.

Besides these special items, the standing topics of the conference from the past will be updated and recent developments worldwide will be reported in detail.

The 16<sup>th</sup> International Conference will act as worldwide forum for safety engineers, accident researchers, experts in biomechanics and pediatricians, representatives of rulemaking, consumer organizations and promoters of safety campaigns.

**The Conference language will be English.**

## Workshop

On December 5, 2018 a workshop will bring people together who are interested in sociocultural aspects in road traffic. There will be a free discussion based on short impact presentations regarding the future transportation of children in new modes of mobility, including new ways of vehicle ownership, and how safety culture can be supported by press promotion and educational programs and the need of promoting safety culture in a general.

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

## Agenda on December 6, 2018

- 09:30 **Welcome**  
TÜV SÜD AG,  
Prof. Dr. Klaus Langwieder, International Safety Consulting (DE)
- 09:40 **Problems and challenges of Child Restraint Systems in low and middle-income countries.**  
Jac Wismans, SAFETEQ (NL)
- **Consumer Information and Safety Programs**  
Chair: Klaus Langwieder, International Safety Consulting (DE)
- 10:10 **Reducing child deaths on European roads**  
Heather Ward, Dovile Adinaite, Graziella Jost, Henk Stipdonk, Theodora Calinescu, European Transport Safety Council ETSC (BE)
- 10:35 **Comparison of ANCAP and Euro NCAP Child Occupant Protection Assessment**  
Céline Adalian, Applus IDIADA Group (FR); Farid Bendjellal, Britax Römer Kindersicherheit GmbH (DE)
- 11:00 **Coffee break**
- **Standards and Rulemaking**  
Chair: Ralf Ambos, DEKRA Automobile GmbH (DE)
- 11:30 **ISOFIX at 20 years: The past, present and future**  
Constandinos Visvikis, CYBEX GmbH (DE)
- 11:55 **Euro NCAP Child Occupant Protection – Results & Learnings on Car/CRS interactions**  
Farid Bendjellal, Britax Römer Kindersicherheit GmbH (DE)

- **Field Studies (Part 1)**  
Chair: Kristy Arbogast, Children's Hospital of Philadelphia (US)
- 12:20 **Fatalities of children in cars in Germany 2017**  
Britta Schnottale, Bernd Lorenz, Federal Highway Research Institute BASt (DE)
- 12:45 **Lunch**
- 14:00 **Causes of fatal injury to child occupants: A ten year review of all child occupant fatalities in New South Wales, Australia**  
Julie Brown, Bianca Albanese, Lynne Bilston, NeuRA Injury Prevention Research Centre and University of New South Wales; Jane Elkington, NeuRA Injury Prevention Research Centre (AU)
- 14:25 **Influence of the presence of children on accident causation**  
Michael Jänsch, Heiko Johannsen, Medizinische Hochschule Hannover (DE)
- 14:50 **Findings on Child Restraint System use in Dubai**  
Inam Ahmad, Sjaan Koppel, Brian Fildes, David Logan, Monash University Accident Research Centre (AU)
- 15:15 **Coffee break**
- **Field Studies (Part 2)**  
Chair: Philipp Wernicke, BMW Group (DE)
- 15:45 **Handling of child restraint systems (CRS) with special focus on the misuse topic**  
Matthias Kühn, Unfallforschung der Versicherer, GDV; Gerd Müller, Technical University Berlin; Wolfgang Fastenmeier, Mensch Verkehr Umwelt, Institut für Angewandte Psychologie (DE)

- 16:10 **Child Restraint Systems misuse risk with consequent modification of biomechanical evaluation**  
Kateřina Šulcová, Faculty of Transportation, Czech Technical University in Prague; Martina Vítů, ŠKODA Auto; Vít Bursík, TÜV SÜD Czech (CZ)
- 16:35 **Hyundai Santa Fe Child Presence Detection System to protect kids from heat-related death in vehicles**  
Seungkyu Kang, Hyundai Motor Company (KR)

17:00 **Sociocultural Aspects in Road Traffic**  
Workshop results presented by Philippe Lesire, LAB PSA Peugeot-Citroën Renault (FR) and Martin Paff, Editor-in-chief CHILDHOOD BUSINESS (DE)

17:30 **End of first conference day**

**Evening Event**

## Agenda on December 7, 2018

- **Test Procedures and Dummies (Part 1)**  
Chair: Susanne Tylko, Transport Canada (CA)
- 09:00 **Vehicle pitch in frontal crashes – implications for children in the rear rows**  
Matthew R. Maltese, Joshua Snitzer, Seth Fein, Children's Hospital of Philadelphia, Center for Injury Research and Prevention (US)

09:25 A comparison of Q10 update and current Q10 dummies in frontal and side impact sled tests  
Katarina Bohman, Isabelle Stockman, Lotta Jakobsson, Maria Wimmerstedt, Volvo Cars; Dion Kruse Autoliv Research, Håkan Sundmark Autoliv Sverige (SE)

09:50 A new Q10 Dummy shoulder and neck design – evaluation of sled test results  
Hakan Ipek, Daimler AG (DE); ACEA TF NCAP Expert Group Child Safety

10:15 Coffee break

#### ■ **Test Procedures and Dummies (Part 2)**

Chair: Bernd Lorenz, Federal Highway Research Institute BASt (DE)

10:45 Q10 Update Kit – hardware design and evaluation using Human Body Model simulations  
Paul Lemmen, Antony Dudley, Juan Gonzalez, Cellbond ATD (UK); Britta Schnottale, Julian Ott, Federal Highway Research Institute BASt (DE)

11:10 Development of Cellbond-Phitec finite element Q6 crash test dummy  
Daniele Speziani, Elena Riscaldina, Michela Vaira, Phitec Ingegneria (IT); Petros Goutas, Chamila Bamunarachchige, Cellbond ATD (UK)

#### ■ **Development and Evaluation of Safety Products**

Farid Bendjellal, Britax Römer Kindersicherheit GmbH (DE)

11:35 Reclined infant carriers: Is there a gap in UN ECE Reg. 129?  
Andreas Ratzek, ADAC e.V., Technik Zentrum (DE)

12:00 Not in-crash infant comfort and safety  
Damien Subit, François Renaudin, Dorel France (FR)

12:25 Lunch

#### ■ **Design and Comfort Issues**

Chair: Reiner Nett, Joyson Safety Systems Germany GmbH (DE)

13:30 Comfort of children in cars: Feasibility of Discomfort Avoidance Behaviour (DAB) as a measure of comfort in a naturalistic setting  
Bianca Albanese, NeuRA Injury Prevention Research Centre and University of New South Wales (AU); Katarina Bohman, Volvo Cars (SE); Lynne Bilston, NeuRA Injury Prevention Research Centre and University of New South Wales; Sjaan Koppel, Judith Charlton, Monash University; Julie Brown, NeuRA Injury Prevention Research Centre and University of New South Wales (AU)

13:55 Comfort analysis of a Child Restraint System using human body model  
Andreas Weinert, Amit Ahirrao, Richard Frank, Britax Römer Kindersicherheit GmbH (DE); Daniele Speziani, Irene Rabino, Phitec Ingegneria (IT)

14:20 Belt slip issues in booster seats – which geometrical properties enable good belt adjustment for children  
Heiko Johannsen, CSC Car Safety Consulting UG (DE)

14:45 Resumé, outlook and farewell  
Philippe Lesire, LAB PSA Peugeot-Citroën Renault (FR)  
Klaus Langwieder, International Safety Consulting (DE)

15:00 End of the conference

## Workshop on December 5, 2018

### **Sociocultural Aspects in Road Traffic**

Chair:

Philippe Lesire, LAB PSA Peugeot-Citroën Renault (FR);  
Jana Olivier, BMW Group (DE)

14.00

#### **Keynote**

**Road Safety in the mirror of social change: recent evolutions in mobility offers, their social representation and impact on driving behavior**

Ralf Engel, Director General of DATAR (FR)

14:30 **SESSION 1**

#### **Safety Culture regarding Child passengers**

**Studying a Shift in Child Passenger Safety Culture**

Sharon Levi, Fabi Shalit Reitman, Boaz Segal, Ayelet Givaty, Shlomi Tal, Beterem – Safe Kids Israel

15:15 Coffee break

15:30 **SESSION 2:**

**Influence of Future Autonomous Cars on Child Safety**  
**Considering child passenger safety when designing, developing and marketing autonomous vehicles**

Lorrie Walker, Safe Kids Worldwide (USA)

16:15 Coffee break

16:45 **SESSION 3**

**Need for Press Promotion to Support Safety Culture and Educational Programs of Child Safety in Road Traffic**

Open discussion with Martin Paff,  
Editor-in-chief CHILDHOOD BUSINESS

# Program Committee

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AUDI AG (DE)

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Children's Hospital of Philadelphia (US)

**Kristy Arbogast, PhD**

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Technische Hochschule Ingolstadt (DE)

**Prof. Dr. Lothar Wech**

Transport Canada (CA)

**Suzanne Tylko**

TÜV SÜD Czech s.r.o.

**Jiří Socha, Ph.D.**

## Chairmen

**Prof. Dr. Klaus Langwieder**

International Safety Consulting (DE)

**Philippe Lesire**

LAB PSA Peugeot-Citroën Renault (FR)



# Registration

[www.tuev-sued.de/protection-of-children-in-cars](http://www.tuev-sued.de/protection-of-children-in-cars)

[congress@tuev-sued.de](mailto:congress@tuev-sued.de)

## Conference Fee

**860,00 € 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

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