Protection of children in cars

13th International Conference, December 3–4, 2015
Munich, Germany

WORKSHOP ON DECEMBER 2
Workshop on December 2, 2015

Child Safety in Traffic
Chairman: Philippe Lesire, LAB PSA Peugeot Citroën Renault

14:00 – 15:30: Session 1: International Road accident data

- Study of the children’s traffic accidents data in Japan
  Yoshinori Tanaka, Naruyuki Hosokawa, Yasuhiro Matsui, National Traffic Safety and Environment Laboratory (JP)
- Accidents with children in different transport modes – a descriptive and in-depth analysis of French and German accident data
  Michael Jänsch, Heiko Johannsen, Medizinische Hochschule Hannover (DE); Véronique Hevre, Vuthy Phan, CEESAR; Philippe Lesire, LAB (FR)
- Road fatalities among Brazilian children: legislation and data analysis
  Marcilio Alves, University of Sao Paulo, Depart of Mechatronics and Mechanical Systems Engineering (BR)

16:00 – 17:30 Session 2: Road safety Perspectives and Recommendations

- Observational surveys of restraint use by young children and market survey for car seats in Qatar: results and recommendations for future policies and legislation
  Rafael Isidro Consunji, Ruben Peralta, Rania Saad Abdelhamid, Shahnaz Malik, Kate Allen, Adnan Hyder, Hassan Al-Thani, Hamad General Hospital, Qatar
- Overview and perspectives of child restraint use in the Russian Federation
  Liliya Chibisenkova, Russian Red Cross (RU)
- Safe Roads: Approach for road safety by information & education
  Vijay Kalakala, Dr. Avinash P. Penumaka, Mercedes-Benz R&D (IN)

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University of Virginia (US), Prof. Dr. Jeff Crandall

Chairmen

- Prof. Dr. Klaus Langwieder (DE), International Safety Consulting
- Philippe Lesire (FR), LAB Peugeot Citroën Renault
The conference

The implementation of new regulations in the markets worldwide and the promotion of Global Transport Regulations (GTRs) are still in the focus of the conference. New developments will be reported and discussed in detail. The intensified cooperation of car and CRS manufacturers and the international update of NCAP requirements and CRS safety assessments as well as harmonisation of test procedures are other main items of the conference 2015. A session of the conference is addressed to aspects of the protection of children with special needs.

The preceding workshop on socio-cultural aspects on December 2, 2015 will cover trends in traffic of children as vulnerable road users and car occupants in general. Based on the continuing success and still growing number of participants, the 13th Conference Protection of Children in Cars will 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.

Conference language

Conference language will be English.

Agenda on December 3, 2015

09:30 Welcome
Klemens Schmiederer, TÜV SÜD AG;
Prof. Dr. Klaus Langwieder, International Safety Consulting (DE)

09:45 Keynote
Standards and Rulemaking
Chair: Prof. Dr. Klaus Langwieder (DE)

10:15 Child occupant protection: latest knowledge and future opportunities
Kristy Arbogast, The Children’s Hospital of Philadelphia (US); Katarina Bohman, SAFER and Autoliv Research; Mats Svensson, Chalmers University of Technology; Lotta Jakobsson, SAFER and Volvo Cars (SE)

10:45 ECE R129: Promoting ISOFIX but also improving the fixation of CRS with the seatbelt
Philippe Lesire, LAB Peugeot Citroën Renault (FR); Mathieu Roynard, AWSR – The Walloon Road Safety Agency (BE); Charline Sochon, François Renaudin, Dorel (FR), Farid Bendjellal, Britax (DE)

11:15 Coffee break

11:55 R129 Phase II: Side impact and vehicle compatibility – an important challenge for the CRS industry
François Renaudin, Yoann Brunetiere, Dorel (FR); Farid Bendjellal, Michael Grohspietsch, Britax (DE); Costandinos Visvikis, CYBEX GmbH (DE); Ronny Diezel, Kiddy GmbH (DE), Okke van Mourik, BeSafe (NL)
Consideration of problems with the car-to-CRS interface
Christian Sobotzik, Heiko Johannsen, CSC Car Safety Consulting (DE)

Lunch

Dummies
Chair: Dr. Heiko Johannsen, MHH (DE)

The Large Omnidirectional Child (LODC) ATD
Jason Stammen, National Highway Traffic Safety Administration (US)

Improvements in Q-Series dummy submarining behaviour in non-integral CRS
François Renaudin, Yoann Brunetiere, Dorel (FR); Jolyon Carroll, Mark Pitcher, TRL (UK); Mark Burleigh, Kees Waagmeester, Humanetics (NL)

Research findings for setting dummy injury thresholds for Regulation 129 Phase 2 regarding chest and abdomen loading
Mark Pitcher, Jolyon Carroll, TRL Ltd. (UK); Peter Broertjes, European Commission (BE)

Q10 Update program 2015 – 2018
Kees Waagmeester, Paul Lemmen, Mark Burleigh, Humanetics Europe (NL/UK)

Coffee break

Biomechanics and Test Procedures
Chair: Dr. Reiner Nett, TAKATA AG (DE)

Differences in belt to occupant interaction between Q10 and 10-year-old child by simulation
Britta Schnottale, Andre Eggers, Julian Ott, Federal Highway Research Institute BASSt (DE)

Ongoing efforts on scalable child models, associated tools and procedures in the PIPER project
Philippe Beillas, Jérôme Collot, University of Lyon-IFSTTAR (FR), Chiara Giordano, Victor Alvarez, Svein Kleiven, Royal Institute of Technology KTH (SE), Stefan Kischt, TU Berlin (DE)

The protection of far-side children in side impact crashes
Suzanne Tylko, Transport Canada; Alain Bussières, PMG Technologies (CA); Katarina Bohman, Autoliv (SE)

End of first conference day

Agenda on December 4, 2015

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

Euro NCAP child occupant protection for 2016
James Ellway, Michiel van Ratingen, Richard Schram, Euro NCAP, on behalf of the Euro NCAP Child Working Group

Improving child restraint installation hardware in vehicles: a description of new Insurance Institute for Highway Safety LATCH ratings
Jessica Jermakian, Insurance Institute for Highway Safety (US)

Child seats in the car
Daniel Ballmann, Touring Club Schweiz (CH)
**Special Session: Children with special needs**  
Chair: Philipp Wernicke, BMW Group (DE)

**09:45 Vehicle protection for low birth-weight babies**  
Julie Brown, Neuroscience Research Australia, University of New South Wales; Elizabeth Clarke, John Sinn, Medical School, University of Sydney (AU)

**10:05 Coffee break**

**10:35 First report of the Spanish road safety public prosecutor’s working group on road users with special needs**  
Mario Sanz, Bartolomé Vargas, Ministry of Justice; Jesús Monclús, Fernando Camarero, Fundación MAPFRE (ES)

**10:55 Research to increase passive safety of affected by osteogenesis imperfecta**  
Luis Martínez, Antonio García, Manuel Espantaleón, Marta de Loma-Ossorio, Instituto Universitario de Investigación del Automóvil INSIA-UPM; Jesús Monclús, Fundación MAPFRE (ES); Christopher Torres, Instituto Politécnico Nacional (MX)

**11:15 Promoting passenger safety among children with special needs: ALYN Pediatric and Adolescent Rehabilitation Hospital**  
Zohar Filber, Shira Kislev, ALYN Pediatric and Adolescent Rehabilitation Hospital (Israel)

**Usability and Misuse/Field Studies (Part 1)**  
Chair: Farid Bendjellal, Britax Childcare Group

**11:35 Is comfort important for optimal use of child restraints?**  
Cameron K. Fong, Julie Brown, Neuroscience Research Australia/School of Medical Sciences, UNSW; Lynne E. Bilston, Neuroscience Research Australia/Prince of Wales Clinical School, UNSW; Gunther Paul, School of Public Health and Social Work, QUT (AU)

**12:05 Child restraint usage for Swedish children from age 4 to stature of 135cm – focusing after the child restraint usage law introduction in 2007**  
Lotta Jakobsson, Magdalena Lindman, Volvo Cars (SE)

**12:30 Lunch**

**Usability and Misuse/Field Studies (Part 2)**  
Chair: Bernd Lorenz, Federal Highway Research Institute BASt (DE)

**13:30 Parents present knowledge & attitude towards child safety – A study in 6 EU countries**  
Farid Bendjellal, Sabrina Michaeli, Britax (DE)

**13:55 Child restraint system use and misuse in Belgium**  
Mathieu Roynard, AWSR – The Walloon Road Safety Agency (BE); Philippe Lesire, LAB Peugeot Citroën Renault (FR)

**14:20 Observational field study of children in cars in 2015: innovative method from data collection to detailed results**  
Charline Sochon, Dorel; Christophe Ramond, La Prévention Routière; Philippe Lesire, LAB Peugeot Citroën Renault (FR)

**14:45 Resumé, outlook and farewell**  
Prof. Dr. Klaus Langwieder, International Safety Consulting (DE)

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

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