



The research leading to these results has received funding from the European Community's Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 218740



## CASPER and EPOCH Final Workshop AGENDA

### Day 1 - Tuesday 13 March

- 10:00h Coffee and Registration
- 11:00h Welcome and introduction to the workshop
- 11:30h Child human modelling:  
Presentations on FE and MB child human model developments in CASPER  
Models from 6 WO till 6 YO
- 12:30h Lunch
- 13:30h Child human modelling (continued)
- 14:10h Biomechanical aspects
- 15:00h Break
- 15:30h Biomechanical aspects (continued)  
Studies on injury risk curves and influence of loading type on thoracic response
- 16:00h Abdominal injury assessment  
Abdominal injury causation and work conducted on abdominal sensors and detection of submarining
- 17:40h Closure day 1

### Day 2 - Wednesday 14 March

- 09:00h Accident data analysis for children  
Study on fatalities and information on accident reconstruction database
- 10:00h Break
- 10:30h Dummy hardware developments  
Proposed Q dummy modification and Q10 dummy development and evaluation
- 12:00h Lunch
- 13:30h Dummy FE model developments  
Q dummy FE models and generic CRS models
- 14:10h Test procedures works  
Q10 as tool for compulsory and consumer testing, benefit information and CASPER proposals for test procedures
- 15:00h Break
- 15:30h Plenary discussion
- 17:30h Closure day 2
- 19:00h Diner

### Day 3 - Thursday 15 March

- 09:00h Field observations  
Misuse studies, car to CRS interfacing and sociological observations
- 10:30h Break
- 11:00h Field observations (continued)
- 12:00h Lunch
- 13:00h Applications  
Influence of dummy stature / misuse in dynamic tests and analysis of solutions.  
Includes information on transfer to other transport modes
- 14:15h Conclusion and future research needs
- 15:00h Closure of workshop

#### Venue:

The workshop will be organised at :  
Technische Universität Berlin / Technical University of Berlin  
Gustav-Meyer-Allee 25  
13355 Berlin—Germany



## Technische Universität Berlin

Institute of Land and Sea Transport Systems  
Automotive Engineering



### ACCOMMODATION

Rooms at a reduced rate for workshop participants are available at the following hotels:

**Holiday Inn Berlin-Mitte \*\*\*\***  
13357 Berlin, Hochstraße 2-3  
Phone: +49 (0)30 46 003-777  
Fax: +49 (0)30 46 003-444  
reservation@hiberlin.de  
[www.hiberlin.de](http://www.hiberlin.de)

room rates and booking reference will be sent with registration confirmation

Rooms should be booked by February 27.

**Park Inn Berlin-Alexanderplatz \*\*\*\***  
10178 Berlin, Alexanderplatz 7  
Phone: +49 (0)30 2389-4333  
Fax: +49 (0)30 2389-4305  
reservations.berlin@rezidorparkinn.com  
[www.parkinn-berlin.de](http://www.parkinn-berlin.de)

room rates and booking reference will be sent with registration confirmation

Rooms should be booked by February 15.

### DIRECTIONS

[www.vbb-fahrinfo.de/hafas/help.exe/en?tpl=home](http://www.vbb-fahrinfo.de/hafas/help.exe/en?tpl=home)

#### From Tegel-Airport [TXL]

**Bus 128 to U Osloer Straße** → U8 bound for **Hermannstraße to Gesundbrunnen** (40 min)

by **Taxi** ~ 10 km / 15 min

**Bus TXL to S+U Alexanderplatz Bhf/Memhardstraße** (40 min)

by **Taxi** ~ 15 km / 25 min

#### From Schönefeld-Airport [SXF]

**Airport-Express (RE7, RB14) to Friedrichstraße** → S1 bound for **Oranienburg / S2 bound for Bernau / S25 bound for Hennigsdorf to Gesundbrunnen** (40 min)

by **Taxi** ~ 27 km / 40 min

**Airport-Express (RE4, RE5) to Alexanderplatz** (20 min)

by **Taxi** ~ 20 km / 30 min

#### From Hauptbahnhof (Central train station)

All eastbound **S-Bahn** lines or **RE1, RE2, RE7, RB 14 to Friedrichstraße** → S1 bound for **Oranienburg / S2 bound for Bernau / S25 bound for Hennigsdorf to Gesundbrunnen** (30 min)

by **Taxi** ~ 4 km / 10 min

All eastbound **S-Bahn** lines (S5 Strausberg Nord / S7 Ahrensfelde, Wartenberg / S9 Berlin-Schönefeld) or **RE1, RE2, RE7, RB 14 to Alexanderplatz** (5 min)

by **Taxi** ~ 5 km / 10 min

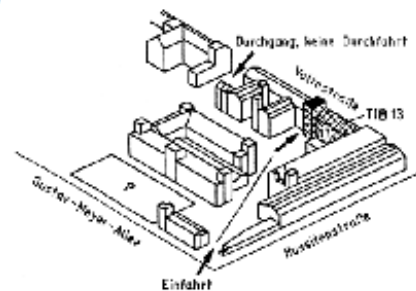
#### Getting from Hotel to Institute of Land and Sea Transport Systems Gustav-Meyer-Allee 25, Building 13.5

From underground station **U Gesundbrunnen** take **U8** bound for **Hermannstraße to Voltastraße**

by **Foot** ~ 1.3 km / 15 min

From underground station **U Alexanderplatz** take **U8** bound for **Wittenau to Voltastraße**

by **Taxi** ~ 4 km / 10 min





## CASPER and EPOCH Final Workshop: EU FP7 research into reduction of fatalities and injuries of children in road traffic

### Background

Although significant achievements have been made in reducing fatalities and injuries in traffic accidents over the last decade, continued efforts are needed to bring the numbers down further. Motivated by this, the CASPER and EPOCH projects address various aspects of child safety in vehicles.

### CASPER

is focussing on children up to 12 years of age, considering two main aspects: (1) the improvement of the efficiency of child protection through the development of innovative tools, such as new abdominal sensors, child human models, completed by test procedures in frontal and lateral configurations etc.; (2) the analysis of the reasons and consequences of misuse of child restraint systems and of the influence of the real conditions of transportation of children, as compared to the certification test procedures. See [www.casper-project.eu](http://www.casper-project.eu)

### EPOCH

on the other hand, aims at the development of a Q Dummy that represents older children (between the ages of 8–12 years) in crashes and will expand specific existing test procedures with criteria for use with the new Q10. As such the EPOCH project will complete the development of the Q series, started in previous projects of CREST and CHILD. See [www.epochfp7.org](http://www.epochfp7.org)

### Final Workshop

The CASPER and EPOCH projects on child safety announce the organisation of a joint final - workshop to present their research findings on child safety and to discuss future activities. This three day workshop will be held 13 – 15 March 2012 in Berlin (Germany).

### Purpose

The purpose of this joined Workshop is to inform the public about the outcome

of the projects through presentations and demonstrators and to discuss future research needs for child safety.

### Registration

Participation is free of charge. Registrations can be made online at [www.biomechanics-coordination.eu](http://www.biomechanics-coordination.eu)



### Consortium CASPER:

1. GIE RE PSA-Renault, GIE RE PR, FR
2. Technische Universität Berlin, TUB, DE
3. Université Louis Pasteur, Strasbourg, ULP, FR
4. Applus+ IDIADA, IDIADA, ES
5. Institut National de Recherche sur les Transports et leur Sécurité, INRETS, FR
6. Loughborough University, LOUGH, UK
7. FIAT Group Automobiles S.p.A., FIAT, IT
8. University of Hanover, LUH, DE
9. Chalmers University, CHALMERS, SE
10. Bundesanstalt für Strassenwesen, BAST, DE
11. TNO, NL
12. Humanetics Europe GmbH, DE
13. Ludwig Maximilians University, LMU, DE
14. Verein für Fahrzeugsicherheit Berlin, VFSB, DE
15. Centre Européen d'Etudes de Sécurité et d'Analyse des Risques, CEESAR, FR



### Consortium EPOCH:

1. Transport Research Lab, TRL, UK
2. Humanetics Europe GmbH, DE
3. Applus+ IDIADA, IDIADA, ES
4. Dorel, NL
5. University of Surrey, US, UK

Contact  
Humanetics mbH, DE  
[plemmen@humanetics.eu](mailto:plemmen@humanetics.eu)