

Crashworthiness and Safety

A DEEP DIVE SESSION

Organized by Automotive Cluster Euregio Meuse Rhine 2012

To be held in September 7, 2012

Pôle d'Ingénierie des Matériaux de Wallonie in Liege, Belgium

CALL FOR PRESENTATION

Keywords

Crashworthiness, Safety, Simulation, High Stress Steel, Hybrid Materials, Plastic materials, Road Infrastructure, Commercial vehicle design (Bus, Truck, Trailer...)

Overview

Safety and crashworthiness are key issues for the development of the sustainability of automobility. Facing the challenge of the CO₂ reduction, the weight reduction of vehicles without compromising the safety calls among others for a better compatibility of lightweight and heavy vehicles, for an optimization design of vehicles for increased safety, and for higher standards in road safety infrastructures. Taking over these challenges requires the development of high level industrial tissue.

The workshops organized by AC-EMR 2012 in 'Metallic Materials' and in 'Modeling & Simulation' have identified a high potential in EUREGIO Meuse Rhine in this new developing market and a possible synergy between the different industrial and research actors with complementary competencies coming from Belgium, Germany and The Netherlands. In particular, the AC-EMR-2012 project has identified strong competencies in EUREGIO in road safety infrastructures, heavy and commercial vehicle crashworthiness, crash numerical modeling and simulation, usage of advanced materials (metallic and non-metallic ones), crash test and experiments...

Objective of the meeting

The Automotive Cluster of the EUREGIO Meuse Rhine is organizing a Deep Dive Session around the *Crashworthiness and Safety* domain to give the opportunity to industrials and research centres to match their experiences and their needs in this field. The Deep Dive Session is open to companies and research centres with the following competencies

contributing to improve the safety and the crashworthiness performance. For instance, one can mention:

- Vehicle design and manufacturing,
- Heavy duty, commercial and industrial vehicles,
- Use of advanced materials,
- Design and simulation,
- Testing of materials and vehicle crashworthiness,
- Normalization and standards, certification,
- Public operators of road infrastructure, operators of commercial fleet vehicles...

After an introduction presentation by the company GDTECH, attendees will participate to a round table discussion. Companies will be asked to briefly present (5 slides recommended) their company, their applications in the field of vehicle and/or component design and the limitations and difficulties they are facing. The participants will also be asked to mention and evaluate their intention to initiate a EUREGIO network (NTI) in the field of crashworthiness and safety, and later to shape a cluster or a consolidated supply chain of complementary industrial partners in the domain of crashworthiness and safety. Future European projects in the field of safety and crashworthiness will be also investigated.

AC-EMR 2012 Project:

Automotive Cluster of the EUREGIO Meuse-Rhine (ACEMR-2012) is an INTERREG Project funded by EUREGIO Region to facilitate the industrial and research partners to bundle their competencies and to strengthen the development of an international visibility of the regional automotive industry. The ambition is to create an internationally known region that contains cross boarder knowledge platforms and EUREGIO sub- clusters (Virtual Sub Cluster - VSC) within an environment that enables innovation and business development. One mean to reach this goal are Networks of Technological Intelligence (NTI). These consist of partners active in a common field of technology, who together can represent the strengths of our region for a robust positioning within the international automotive market and who will benefit from complementing each other in areas where they work together. Our round table shall provide a basis to establish an NTI in the field of crashworthiness and safety within the EMR.

Registration:

Registration should be introduced through the project web site web page www.ingveh.ulg.ac.be/workshop or by email to:

- Prof Pierre DUYSINX, (LTAS-Automotive Engineering of University of Liege) p.duysinx@ulg.ac.be
- Dr Laurent VAN MIEGROET (LTAS-Automotive Engineering of University of Liege) l.vanmiegroet@ulg.ac.be

Your final application should include:

- Information about the author/speaker : title, full name, position, company, address, department, phone number, e-mail address;
- Short company presentation describing the interest in crashworthiness and safety of vehicle / infrastructure.

Place & date:

The deep dive session seminar will take place in September 7, 2012, from 14 to 17h in Pôle d'Ingénierie des Matériaux de Wallonie in Liege, Belgium.

Access map see: <http://www.ingveh.ulg.ac.be/workshop/access.html>

Schedule:

- June 20, 2012: First call for participation. Beginning of the preliminary registration. Opening of web site.
- August 13, 2012: Second call for participation.
- August, 27, 2012: Deadline for registration and for abstract submission in the shape of a short summary (15-20 lines).
- August 30, 2012: Final program.
- September 7, 2012: Deep Dive Session.

