



**International Workshop on  
Fire and Explosion Safety in Large Car Parks  
May 30, 2011 – ‘Het Pand’, Ghent (Belgium)**



During the past 2 years, a large research project on fire and explosion safety in large car parks (<http://www.carparkfiresafety.be>) has been conducted as a joint effort of:

- Ghent University:
  - Dept. Flow, Heat and Combustion Mechanics
  - Dept. Structural Engineering
- Katholieke Universiteit Leuven
- Von Karman Institute
- Royal Military Academy
- WarringtonFireGent (WFRGent NV)

The project is funded by IWT-Vlaanderen in the 'SBO' framework (Strategic Basic Research).

The aim of this workshop is to report and discuss the major results. The workshop takes place on Monday May 30, 2011.

#### **Venue**

The seminar will be held at ‘Het Pand’, Onderbergen 1, Ghent, Belgium. Travel information is found on the web site <https://www.ugent.be/nl/voorzieningen/pand>

There are many hotels in various price classes in the centre of Ghent.

#### **Tentative program**

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|----------------|--|
| 9.00 – 10.00:  | Registration   |
| 10.00 – 10.20: | Welcome: <ul style="list-style-type: none"><li>• Prof. dr. ir. Bart Merci (Ghent University)</li><li>• Prof. dr. Paul Van Cauwenberge – Rector of Ghent University</li></ul> |
| 10.20 – 10.40: | Large Scale Fire Tests – dr. ir. Bart Sette (WFRGent NV)   |
| 10.40 – 11.10: | Analysis of Full-Scale Experiments and CFD Simulations Prof.dr.ir. Bart Merci (Ghent University)   |
| 11.10 – 11.30: | Coffee Break   |

- 11.30 – 11.50: Multi-Sensor Smoke Detection Techniques – ing. Steven Verstockt (HOWest – Ghent University)
- 11.50 – 12.10: Large Scale CFD Results: Influence of several parameters – ir. Xavier Deckers (Fire Engineered Solutions – Ghent University)
- 12.10 – 12.40: Full-Scale versus Model-Scale Tests for Critical Ventilation and Back-Layering in Car Parks – Prof. dr. ir. Jeroen van Beeck (Von Karman Institute)
- 12.40 – 14.00: Lunch
- 14.00 – 14.30: Analysis of punching shear at high temperatures – Prof. dr. ir. Luc Taerwe (Ghent University)
- 14.30 – 15.00: Risk Analysis for LPG-Fuelled Cars in Closed Car Parks – dr. ir. Filip Van den Schoor (KU Leuven)
- 15.00 – 15.20: Coffee Break
- 15.20 – 15.50: Explosion Safety in Car Parks – Prof. dr. ir. John Vantomme (Royal Military Academy)
- 15.50 - 16.20: Prevention and Intervention Strategies for Fire and Explosion Safety in Car Parks – Ghent Fire Brigade
- 16.20 – 17.00: Closing Discussion

### Registration and Fee

Registrations are managed online: <http://users.ugent.be/~emeerbur/carparkfiresafety/>

The basic registration fee is €125 per participant. Reduced fees are granted, as explained in the table. An additional fee of €30 will be required for late registration (after April 17, 2011). The registration fee includes a CD-ROM with the presentations of the day, coffees, drinks and lunch.

| Type of registration   | Fee (in Euro) |
|--|---------------|
| Regular  | 125           |
| Members of the SBO Project User Group (1 reduced fee only per UG member) | 75            |
| Belgian Fire Brigade Participants / Members of the Combustion Institute  | 95            |

The number of participants is limited to 120, so early registration is strongly recommended.

### Organizing Committee

For any practical questions, please contact Ms. Elise Meerburg ([Elise.Meerburg@UGent.be](mailto:Elise.Meerburg@UGent.be)).

