



ITA COSUF

ITA Committee on
Operational Safety of
Underground Facilities

International Conference on

Safety of Life in Tunnels (SOLIT)

Integration of Fire Fighting Systems

27.06. and 28.06.2012

**SCANDIC HOTEL
Berlin (Germany)**

Exclusive results of the SOLIT²
Research Project and the large scale
fire test program

ITA-COSUF Section

Various papers about FFFS in tunnels,
trains and underground facilities

Media Cooperation

tunnel

Supported by:



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by the German Bundestag



- 08:00** **Registration, Coffee**
- 09:00** **Welcome & Introduction**
Stefan Kratzmeir, Project Manager SOLIT²
- 09:15** **Welcome Address**
Dr. Siegfried Meuresch, Head of Division at the Federal Ministry of Economics and Technology
Rainer Bomba, State Secretary at the Federal Ministry of Transport, Building and Urban Development

Session 1: SOLIT² - Compensation of Safety Measures by Fixed Fire Fighting Systems
Chair: Dr. Bernhard Koonen, TÜV Rheinland, Project Administration Mobility & Transport Technology of BMWI

- 09:45** **Full scale fire test program—Test data and summary of results and findings with Fixed Fire Fighting Systems**
Rajko Rothe, IFAB Institute for applied fire safety research
- 10:30** **Coffee break**
- 11:00** **Compensation of conventional safety measures by Fixed Fire Fighting Systems and the evaluation process**
Dr.-Ing. Roland Leucker, STUVA Studiengesellschaft für unterirdische Verkehrsanlagen e.V.
- 11:45** **CFD Simulations and other tools as supporting measures for the design of holistic tunnel safety systems**
Prof. Dr.-Ing. Wolfgang Baltzer, BUNG Ingenieure AG
- 12:30** **Lunch break**

Session 2: SOLIT² - Design and Integration of FFFS as part of a safety systems
Chair: Max Lakkonen, FOGTEC Brandschutz GmbH

- 14:00** **Cost-Benefit analysis as part of a holistic design of a tunnel safety system**
Dr.-Ing. Götz Vollmann, Ruhr University Bochum
- 14:45** **RAM(S) analysis and safety levels for fire protection systems**
Sascha Wendland, FOGTEC Fire Protection
- 15:30** **Coffee break**
- 16:00** **Engineering guidance for the implementation and evaluation of safety systems in a tunnel**
Dr.-Ing. Jürgen Heyn, TÜV Süd Rail GmbH
- 16:45** **Round Table Discussion: Safer and cheaper tunnels? - The future of compensation**
- 17:30** **Closure of conference day one**
- 19:00** **Transfer departing at the Scandic Hotel**
- 19:30** **Conference dinner at the Palais at the Kulturbrauerei**

08:30 Coffee

Session 3: ITA - COSUF Section

Chair: Didier Lacroix, CETU - Centre d'Etudes du tunnel

- 09:00 **Welcome and Introduction of ITA - COSUF**
Didier Lacroix, CETU - Centre d'Etudes du tunnel
- 09:15 **Key Note Lecture: Human behavior in tunnels**
Prof. Dr. Andreas Mühlberger, Julius-Maximilians University Würzburg
- 09:45 **NFPA 502 policy regarding FFFS and its change over the time**
Gary L. English, Seattle Fire Department
- 10:15 **Coffee break**
- 10:45 **The SAFE station concept in the Channel Tunnel**
Bruno Bouthors, Eurotunnel
- 11:15 **The application of FFFS in metro systems**
Miriam Hähnel, TÜV Süd Rail GmbH
- 12:00 **Challenges of fire fighting in complex underground structures**
Holger Notzke, Fire Brigade of Berlin
- 12:30 **Lunch break**

Session 4: The use of Fixed Fire Fighting Systems in Tunnels

Chair: Dr. Roland Leucker, STUVA Studiengesellschaft für unterirdische Verkehrsanlagen e.V.

- 14:00 **User aspects of tunnel fire safety**
Robert Sauter, ADAC German Automobile Club
- 14:30 **Does droplet size matter? Comparison of FFFS technologies for tunnels**
Stefan Kratzmeir, IFAB Institute for applied fire safety research
- 15:00 **Dangerous goods in Tunnels**
Klaus Ehrmann, IdF - Institute of the Fire Brigades Sachsen-Anhalt
- 15:30 **Coffee Break**
- 16:00 **Long term experience with FFFS in operating tunnels - a summary**
Max Lakkonen, FOGTEC Fire Protection
- 16:30 **The experience of fire fighters with fixed fire fighting systems**
Ronan Poliverd
- 17:00 **Closure of the Conference**

Accommodation & Travel

The conference will take place at the
SCANDIC Hotel Berlin at Potsdamer Platz
Gabriele-Tergit-Promenade 19
10963 Berlin / Germany

- Grand Hyatt Berlin: 145 €/night incl. breakfast. Reference code: "IFAB"
The special rate at the HYATT is only available until 12.06.2012!

Hotels can be booked via the hotel webpage or directly at the hotel.

Berlin, Potsdamer Platz can be reached easily by local trains, metro and bus. The distance to the hotel is approx. 400 m.

The opening of the new airport of Berlin is cancelled. Flight connections are available to the airport Tegel (TXL) and Schönefeld (SXF). Travel information from the airport will be available at www.berlin-airport.de.

Conference Fee & Registration

The conference fee for attendees is 450,- € (excl. VAT).

The following is included in the conference fee:

- Participation on both days of the conference
- Proceedings of the conference
- The SOLIT² public report and the Engineering Guidance
- Refreshments during the conference and lunch on both days
- Conference dinner on the 27.06.2012 at the Palais and transfers
- Conference language is German and English. Simultaneous translation is available

Please register online at
www.solit.info

Imprint:

The conference will be organized on behalf of the SOLIT² research project by:

IFAB Ingenieure für angewandte Brandschutzforschung

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