

- 08:00 Registration, Coffee
- 09:00 Welcome & Introduction
Stefan Kratzmeir, Project Manager SOLIT²
- 09:15 Welcome Adress
N.N.

Session 1: SOLIT² - Compensation of Safety Measures by Fixed Fire Fighting Systems *Chair: N.N.*

- 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 safatey 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: N.N.*

- 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**

N.N., TÜV Süd Rail GmbH

12:00 **Challenges of fire fighting in complex underground structures**

N.N., Fire Brigade of Berlin

12:30 **Lunch break**

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

Chair: N.N.

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**

N.N., 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**

N.N.

17:00 **Closure of the Conference**