

**ITA-COSUF Workshop and General Assembly  
8. June 2010, Frankfurt, InterCity Airport Hotel**

**Risk Assessment – a state of the art approach to deal with Safety  
in Underground Facilities**

<b>Location:</b>	<b>InterCity Airport Hotel, Am Luftbrückendenkmal 1, DE-60549 Frankfurt</b>
	<b>Registration</b>
<b>09'30 – 10'00</b>	<b>Opening session</b>
0.1 09'30-09'35	Welcome on behalf of ITA-COSUF <i>Felix Amberg, Amberg Engineering Ltd, Switzerland COSUF Chairman</i>
<b>0.2 09'35-10'00</b>	<b>Key note: Risk Analysis and Risk Policy</b> <i>Ben Ale, TU Delft, The Netherlands</i>
<b>10'00 – 11'15</b>	<b>Session 1: Principles and Tools of Risk Assessment for Underground Facility in Operation</b>
1.1. 10'00 – 10'20	PIARC's overview of risk analysis and risk evaluation for road tunnels <i>Christopf Zulauf, Ernst Basler &amp; Partner, Switzerland</i>
1.2. 10'40 – 11'00	Quantitative Risk Assessment according to RABT <i>Jens Koenig / Matthias Wehner, HBI, Germany</i>
1.3. 10'20 – 10'40	Benchmarking of Selected Risk Analysis Methods <i>Niels Peter Hoj, Switzerland / Ben van den Horn, The Netherlands</i>
1.4. 11'00 – 11'10	Discussion <i>Chaired by Ben van den Horn</i>
<b>11'10 – 12'25</b>	<b>Session 2: Risk Based Decision Making and Design</b>
1.1 11'10 – 11'30	Risk Based Decision Making in the Eastern Line, Metro Link Amsterdam <i>Ben van den Horn, Arcadis, The Netherlands</i>
1.2 11'30 – 11'50	Risk Based Planning and Design and the Acceptance Criteria in Sweden <i>Bernt Freiholdts, Vägvesen, Sweden</i>
1.3 11'50 – 12'10	Risk-based Decision Making <i>Michael H Faber, ETHZ, Danemark</i>
1.4 12'10 – 12'20	Discussion <i>Chaired by Peter Reinke</i>
<b>12'20 – 13'35</b>	<b>Lunch break</b>
<b>13'35 – 14'45</b>	<b>Session 3: Risk Management</b>
2.1 13'35 – 13'55	Explosions and tunnels in urban areas: How to manage the risk <i>Jos F.M. Wessels, TNO, The Netherlands</i>
2.2 13'55 – 14'15	Risk Analysis in Nuclear Power Plants and what we can learn from it for tunnel risk management <i>Ralf Mock, FHZ, Switzerland</i>
2.3 14'15 – 14'35	Dangerous Goods through Road Tunnels: New European Legislation and Risk Assessment Practice in Alpine Countries <i>Didier Lacroix, Cetu, France</i>
2.4 14'35 – 14'55	Limits of Risk Analysis <i>Philipp Pons, Bonnard &amp; Gardel, France</i>
2.5 14'55 – 15'15	Discussion <i>Chaired by Jos F.M. Wessels</i>
<b>15'15 – 15'30</b>	<b>Coffee break</b>
<b>15'30 – 16'00</b>	<b>Round Table Discussion</b> Risk analysis - a way to optimize investments or just a tool to by-pass legislation?
<b>16'05 – 16'15</b>	<b>Conclusions and closing remarks</b> <i>F. Amberg, ITA-COSUF Chairman</i>
<b>Approx. 16'15</b>	<b>ITA-COSUF General Assembly</b>

For further details, application, prices etc: Please refer to [www.ita-aites.org](http://www.ita-aites.org)



COMMITTEE ON  
OPERATIONAL  
SAFETY OF  
UNDERGROUND  
FACILITIES

INTERNATIONAL TUNNELLING AND  
UNDERGROUND SPACE ASSOCIATION

## Committee on Operational Safety of Underground Facilities

### About ITA-COSUF

ITA-COSUF – the Committee on Operational Safety of Underground Facilities was founded at the 33<sup>rd</sup> ITA-AITES World Tunnel Congress (WTC) 2007 in Istanbul. It is one out of three ITA committees and supported by PIARC, the World Road Association. Objectives are targeted through three Activity Groups (AG) which are:

- AG 1 – Interaction with European and international activities
- AG 2 – Regulations and best practice
- AG 3 – Research and new findings

### Objectives

- Maintenance and development of networks
- Exchange knowledge
- Facilitate cooperation worldwide
- Enhance R&D activities
- Promotion of safety and security
- Support of the development of improved regulations

### Member's benefit

- Being member of a worldwide network
- Annual meetings in form of the General Assembly
- Twice a year Activity Group (AG) meetings
- Specific workshops
- Access to technical information and documents
- Access to and integration into AG activities

### Membership

Any corporate organisation or company can apply for membership.  
A subscription form may be found at the website and has to be sent to:  
ITA-COSUF c/o EPFL – Bât. GC – Station 18, CH-1015 Lausanne, Switzerland  
Fax: +41 21 693 41 53, Tel: +41 21 693 23 10  
Email: [secretariat@ita-aites.org](mailto:secretariat@ita-aites.org)

# ITA - COSUF

[www.ita-aites.org](http://www.ita-aites.org)

ITA COSUF, the  
*'Centre of Excellence  
for world-wide  
exchange of  
information and know  
how in regard to  
safety & security  
of underground  
facilities'*