

Fire Suppression in Tunnels

International Tunnel Safety Conference by IWMA & ITA - COSUF 2008



Supporting Research Results of:



Upgrading of Tunnels



Safety of Life in Tunnels

02. - 03. April 2008, Munich, Germany

Supported by tunnelbuilder.com and tunnelintelligence.com as media partner

Conditions of Participation

Registration

Please register online at www.iwma.net.

Conference Fees

All participants will be charged the following fees for attending the conference:

Members of IWMA & COSUF:

Payment before 12/20/2007:	460 Euro
Payment after 12/20/2007:	520 Euro
Cash payments at conference:	540 Euro

Non-Members:

Payment before 12/20/2007:	520 Euro
Payment after 12/20/2007:	580 Euro
Cash payments at conference:	600 Euro

Social Get Together

On April 1, 2008, all participants are welcome to join a come together in Munich at "Wirtshaus Zur Brez'n", Leopold-Straße 72, 80802 Munich, for first off-topic discussions. Food and beverages are not included in the conference fee.

Conference Dinner

All conference participants are invited to join conference dinner hosted by the IWMA / COSUF on April 2, 2008.

This excellent networking opportunity will take place at "Löwenbräukeller", Nymphenburger Straße 2 (Am Stiglmaier Platz), 80335 Munich, starting at 20:00 hours.

Participation will cost: 55.00 Euro incl. VAT.

Modes of Payment

Bank transfer / Credit Card / Cash payment

Conference Secretariat

IWMA

Mr. Matthias Ecke
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D-39175 Heyrothsberge
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Fax: +49-392 92 690 26
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Further Information

Conference Kit

Each participant will receive a CD with information on the conference sessions/presentations, which will be distributed after the event.

Conference Language

The language for presentations will be English and German. Simultaneous translation will be provided during the conference. Available languages are English, German, French and Italian.

Travel Information

Please click on www.tuev-sued.de for further information about the conference venue.

Accommodation

All participants of the conference are responsible for their own hotel arrangements.

For independent hotel booking you may visit:

www.muenchen.de/Tourismus/Accommodation_Hotels/7604/index.html

www.booking.de

www.HRS.de

If you wish, you may contact one of the "congress" hotels. See www.iwma.net for further details.

Conference Location



TÜV SÜD Akademie GmbH
Westendstraße 199
80686 Munich, Germany
Tel: +49 (0)89-5791 1415
Fax: +49 (0)89-5791 2247

Useful Links

- IWMA:
www.iwma.net
- COSUF:
www.ita-aites.org/cms/1607.html
- UPTUN:
www.uptun.net
- Revised UPTUN Guidance 251:
www.iwma.de/calimero/tools/proxy.php?id=13072
- SOLIT:
www.solit.info
- Tunnelbuilder:
www.tunnelbuilder.com
- Tunnelintelligence:
www.tunnelintelligence.com
- Tunnelingforum:
www.tunnellingforum.com/links.php

For your Information

Conference The conference focuses on Fixed Fire Suppression Systems for Tunnel applications and includes related topics such as detection, reliability and cost. Experts from government, research bodies and the fire protection industry present latest findings. Time will be available for networking and further discussion between the presentations.

Target audience Consultants, safety engineers, tunnel operators, government bodies, fire brigade, insurers, manufacturers

Advisory Board For COSUF:

- Felix Amberg
Chairman COSUF, Chief Managing Director, Amberg Engineering
- Didier Lacroix
Vice Chairman COSUF, Research Manager CETU
- Prof. Alfred Haack
Executive Board Member STUVA

For IWMA:

- Ragnar Wighus
Chairman IWMA, Senior Research Engineer SINTEF
- Dirk K. Sprakel
Vice-Chairman IWMA, Managing Director FOGTEC Fire Protection
- Bert Yu
Scientific Council Chair IWMA, FM Research, USA

International Water Mist Association (IWMA) IWMA is the leading association representing stakeholders interested in Water Mist Fire Fighting Systems and related technologies.

International Tunnelling and Underground Space Association (COSUF) Within the International Tunnelling and Underground Space Association, COSUF is a Committee on Operational Safety of Underground Facilities, which is dedicated to safety and security in tunnels and similar structures.

Tuesday, April 01, 2008

20:00 Get together for early arrivals at “Wirtshaus Zur Brez´n”

Wednesday, April 02, 2008

OPENING

08:30 Registration

09:15 Opening address
Ragnar Wighus, SINTEF

09:30 Catastrophic Tunnel Fires – Effect on users, Fire brigades and the Tunnel construction
Prof. Alfred Haack, STUVA

09:50 Catastrophic Tunnel Fires – Findings of real scale fire tests
Haukur Inganson, SP

GENERAL GUIDELINES AND VIEWS

10:10 EU Directive – Minimum safety requirements for Road Tunnels with a view to Fire Suppression Systems
Andrew Shiner, Tyco

10:30 NFPA 502 – Aspects of Fixed Fire Suppression Systems in the new 2008 issue
Arnold Dix, Counsel

10:50 View of a government body and view of PIARC on the use of Suppression Systems in Tunnels
Didier Lacroix, CETU

11:10 Coffee Break

11:30 Experience of a Tunnel operator with an installed system
Prof. Bergmeister, Galleria di Base del Brennero

11:50 Active fire protection in subsurface rail facilities
Klaus Jürgen Bieger, Deutsche Bahn

12:10 Questions and discussion

12:30 Lunch break

RESEARCH AND TESTING

14:00 L-SURF: Test sites for Full Scale Fire Testing in Tunnels
Felix Amberg, Amberg Engineering

14:30 UPTUN – An overview
Presenter TBA

15:00 Development of innovative Fire Suppression Systems within the UPTUN project
Ragnar Wighus, SINTEF

15:30 The SOLIT research project
Dr. Horst Starke, IdF

16:00 Coffee break

16:20 Testing Fire brigade strategies in conjunction with Fixed Fire Suppression Systems
Presenter TBA

16:40 Scaling of Fire Suppression with Water Mist Systems in Tunnels – Current status
Eric Cesmat, CSTB
Xavier Ponticq, CETU

17:00 Fire Detection – An important part of Suppression Systems
Stefan Brügger, Securiton

17:20 Questions and discussion

20:00 Conference dinner at “Löwenbräukeller“

Thursday, April 03, 2008

IMPLEMENTATION INTO TUNNELS

09:00 UPTUN Guidance – Minimum requirements for Fire Suppression Systems in Tunnels
Erik Christensen, Semco

09:30 Risk analysis as basis for decisions – Example A73 Roertunnel
Ben Van den Horn, Rijkswaterstaat

10:00 Reliability aspects of Fire Suppression Systems
Dr. Jürgen Heyn, TÜV Süd GmbH

10:30 Operational aspects of integration of Fire Suppression Systems in Tunnels
Prof. Markus Thewes, University Bochum

11:00 Substitution – Promising results – Challenge for the future
Stefan Kratzmeir, FOGTEC Fire Protection

11:30 Coffee break

12:00 CFD modelling for Tunnel Fire Suppression Systems
Jesús de la Quintana, Labein

12:30 Questions and discussion

12:45 Lunch break

CASE STUDIES

14:00 Case study: Fire in the Burnley Tunnel (Melbourne)
Arnold Dix, Counsel

14:30 Case study: Fire Suppression System in the Felbertauern Tunnel
Georg Reichsthaler, Aquasys

15:00 Coffee break

15:30 Case study: Fire Suppression System in the M30 Tunnels (Madrid)
Federico Conde del Pozo, Dragados S.A., Madrid

16:00 Outlook
Didier Lacroix, CETU

16:00 Questions and discussion

————— Subject to changes without notice —————