

• • • **ISTSS began in Sweden in 2003 as the International Symposium on Catastrophic Tunnel Fires. This first symposium attracted more than 200 delegates and prompted a broadening of the scope to the 1st International Symposium on Tunnel Safety and Security (ISTSS), held in Washington DC and the 2nd ISTSS in Madrid. Global concern for improving tunnel safety and security and continued strong support for this event has lead to the 3rd ISTSS in Stockholm, Sweden. All conference details and online registration can be viewed on our website www.sp.se/fire/ISTSS2008.**



Venue in Stockholm

Built in the early 1900's Foresta was originally intended to be a private residence for Mrs. Wilhelmina Skogh, although it has always been much more. Reminiscent of a Germanic castle and set on a cliff at the entrance to the island of Lidingö in Stockholm, Foresta combines a dramatic setting and close proximity to the city center.

Foresta has been an important meeting place since 1910 when it was first opened and we feel confident that this venue will provide the perfect setting for the 3rd International Symposium on Tunnel Safety and Security.

Full details of accommodation both at Foresta itself and alternatives nearby will be available on our website through the conference registration.



Hotels

Best Western Premier Foresta Hotel

The official symposium Hotel is Foresta Best Western located in the heart of Stockholm. This accommodation offers large work areas, harmonious lighting and fully equipped rooms. For more details book your room through our online registration or contact the Hotel directly (www.foresta.se).

Hotel Ariston

For those who would prefer a more simple accommodation the Hotel Ariston is located within easy walking distance to the symposium venue. For more details book your room through our online registration or contact the hotel directly (www.aristonhotel.se).

Climate

The weather in Stockholm at this time of the year is usually mild with temperatures approx. 10-15°C, showers may occur.

• • • 12 March 2008

08:00 Registration, Coffee & Pastries

09:00 Opening Ceremony

Keynote Speakers

09:30 Managing road tunnels safety: today's challenge.
Didier Lacroix, Centre d'Etudes des Tunnels, France

10:00 Magic numbers in tunnel fire safety.
Haukur Ingason, SP Fire Technology, Sweden

10:30 Coffee break

Design

11:00 The methodology for declaration of the traffic flow on motorways sections before and after expected obstacle – the tunnel.
Ulrich Zorin, DARS, d.d., Slovenia

11:20 Assessment of the impact of jet flame hazard from hydrogen cars in road tunnels.
Y Wu, Sheffield University, UK

11:40 Design study:L-surF Large Scale Underground Research Facility on safety and security.
Felix Amberg, Maximilian Wietek & Volker Wetzig, VSH Hagerbach Test Gallery Ltd., Switzerland

12:00 Making tunnels safer.
Jesus Rohena, DOT, USA

12:20 Comparison of road tunnel design guidelines.
Hak Kuen Kim, Korea National Rescue Services, Korea

12:40 Lunch & Exhibits

Case Studies

14:30 The Burnley Tunnel fire – implications for current design practice.
Peter Johnson & David Barber, ARUP Fire, Australia

14:50 Safety requirements & transport of dangerous goods through the 53 kilometer railway tunnel through the Alps between Lyon and Turin.
Jorrit Nieuwenhuis & Eddy Verbesselt, ARCADIS Infra BV, The Netherlands

15:10 Implementation of water mist systems in road tunnels – Projects case study.
Markku Vuorisalo, Marioff Corporation Oy, Finland

15:30 Coffee break

Research

16:00 Design fires for tunnel water mist suppression systems.
Ricky Carvel, BRE Centre of Fire Safety Engineering, UK

16:20 The influence of tunnel cross-section on temperatures and fire development.
Anders Lönnemark, SP Fire Technology, Sweden

16:40 Study of the trajectories of droplets from water suppression systems in tunnels.
Guillermo Rein, Ricky Carvel & Jose L. Torero, BRE Centre of Fire Safety Engineering, UK

17:00 Full scale fire tests in Yingzuiyan Road Tunnel.
Longhua Hu, University of Science and Technology of China

17:20 Close

19:00 Poster Session & Cocktail Reception with assorted canapes & hors d'oeuvres

• • • 13 March 2008

08:00 Registration, Coffee & Pastries

Keynote Speakers

09:00 The use of CFD-FDS modeling for establishing performance criteria for water mist systems for very large fires in tunnels.
Jack Mawhinney, Hughes Associates Inc., USA

09:30 Active and passive fire protection - which way should we go?
Alfred Haack, STUVA, Germany

10:00 Coffee Break

Active fire protection

10:30 Full-scale fire testing for road tunnel applications - evaluation of acceptable fire protection performance.
Maarit Tuomisaari, Marioff Corporation Oy, Finland

10:50 Road tunnel protection by water mist systems - Implication of full scale fire test into a real project.
Stefan Kratzmeir, FOGTEC Fire Protection, Germany

11:10 Use of water mist sprays for firefighting in tunnels: test results at scale 1/3.
Eric Cesmat (CSTB), Jean-Pierre Vantelon (CNRS), Bruno Brousse & Xavier Ponticq (CETU)

11:30 Break

11:50 Hotfoam: Fire suppression and structure protection for cargo train tunnels.
Peter Kristenson & Mats Helltegen, Svenska Skum AB

12:10 Reliability and availability of fire detection systems in road tunnels.
Stefan Bruegger, Securiton, Switzerland

12:30 International road tunnel fire detection research project.
Kathleen Almand, The Fire Protection Research Foundation, USA

12:50 Lunch & Exhibits

Passive fire protection

14:30 Experimental study of the influence of polypropylene fibres on fire spalling of concrete.
Robert Jansson & Lars Boström, SP Fire Technology, Sweden

14:50 Safety doors in the world's longest tunnel – Test experience from selected prototypes.
Volker Wetzig, VSH Hagerbach Test Gallery Ltd., Switzerland

15:10 Fire testing of concrete and concrete protection systems for tunnels in Sweden – an overview.
Maria Hjohlman, Lars Boström & Robert Jansson, SP Fire Technology, Sweden

15:30 Coffee break

Fire Fighting

15:50 Fire fighting access – A probabilistic approach.
Jimmy Jönsson, Ove Arup & Partners SA, Spain

16:10 Incident management in a very long railway tunnel.
Christof Neumann, Rudolf Bopp, Gerhard Harer, Manuel Burghart, Josef Koinig, ILF Consulting Engineers, Austria

16:30 Mobile tunnel ventilation for fire fighting.
Maria Kumm & Anders Bergqvist, Mälardalen University & Stockholm Fire Brigade, Sweden

16:50 Tunnel Incident Management in Frankfurt am Main.
Jens Stiegel, Frankfurt Fire Department, Germany

17:10 Close

19:00 Banquet

• • • 14 March 2008

08:30 Coffee & Pastries

Keynote Speaker

09:00 Changing the security paradigm: Interagency sharing of intelligence and risk assessment data.
Don Bliss, NIZ Center for Infrastructure Expertise, USA

09:30 Security of Tunnels & Underground Space: Challenges & Opportunities.
Harvey Parker, ITA, USA

10:00 Coffee break

Security

10:30 NCHRP-AASHTO workshop on safety and security in roadway tunnels.
Kathleen Almand, The Fire Protection Research Foundation, USA

10:50 Wider safety perspective.
Bo Wahlström, Brandskyddslaget, Sweden

11:10 Tunnel explosion characteristic.
Rickard Forsén, FOI Swedish Defense Research Agency, Sweden

11:30 Overview of tunnel security issues.
Ronald Peimer, NIZ Center for Infrastructure Expertise, USA

11:50 Panel discussion: Tunnel safety and security - Where do we go from here?

12:10 Close

Symposium fees

Full Registration:

Before 1st of February 2008	SEK 5 900 (approx. € 650)
From 1st of February 2008	SEK 7 000 (approx. € 770)
Student/Speakers (before 1st Feb.)	SEK 5000 (approx. € 550)
ITA, ASCE members (before 1st Feb.)	SEK 5310 (approx. € 585)
	(+ VAT for Swedish delegates)

This fee includes: technical sessions, exhibit, poster session, refreshments, lunches, cocktail reception (Wednesday), standard conference documentation.

1-Day Registration:

Before 1st of February 2008	SEK 3 500 (approx. € 390)
From 1st of February 2008	SEK 4 000 (approx. € 430)
Student/Speakers (before 1st Feb.)	SEK 2000 (approx. € 220)
	(+ VAT for Swedish delegates)

This fee includes: technical sessions, exhibit, poster session, refreshments, lunches, cocktail reception (Wednesday), standard conference documentation

Banquet Dinner (Thursday):

SEK 350 (approx. € 39)
(+ VAT for all delegates)

Sponsors and Exhibitors

An exhibition will be arranged in conjunction with the symposium. Further information can be found on www.sp.se/fire/ISTSS2008.

Symposium language

The official working language of the conference is English.

Further details from the organisers

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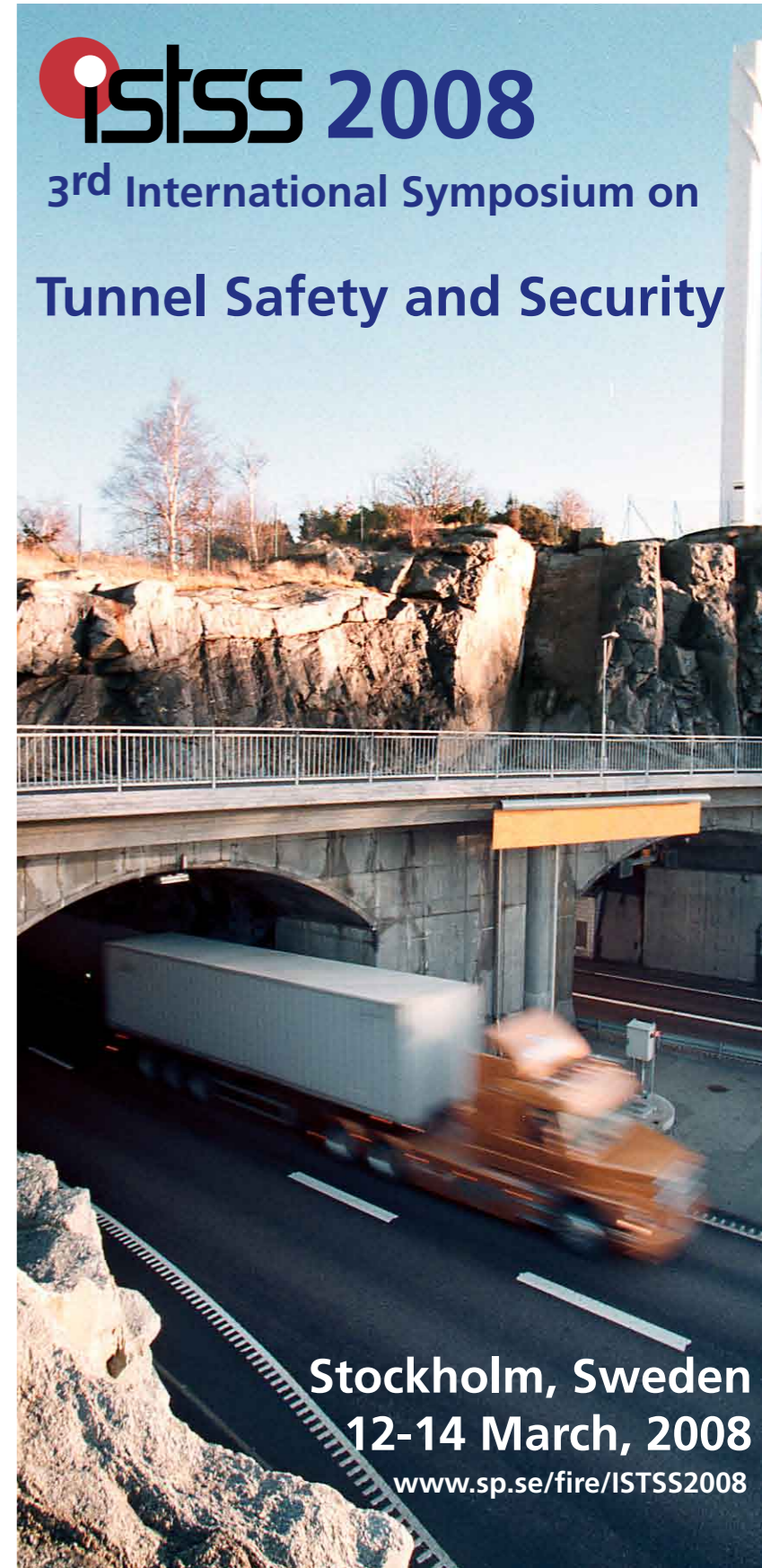
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Symposium Invitation

SP Technical Research Institute of Sweden



Stockholm, Sweden

12-14 March, 2008

www.sp.se/fire/ISTSS2008