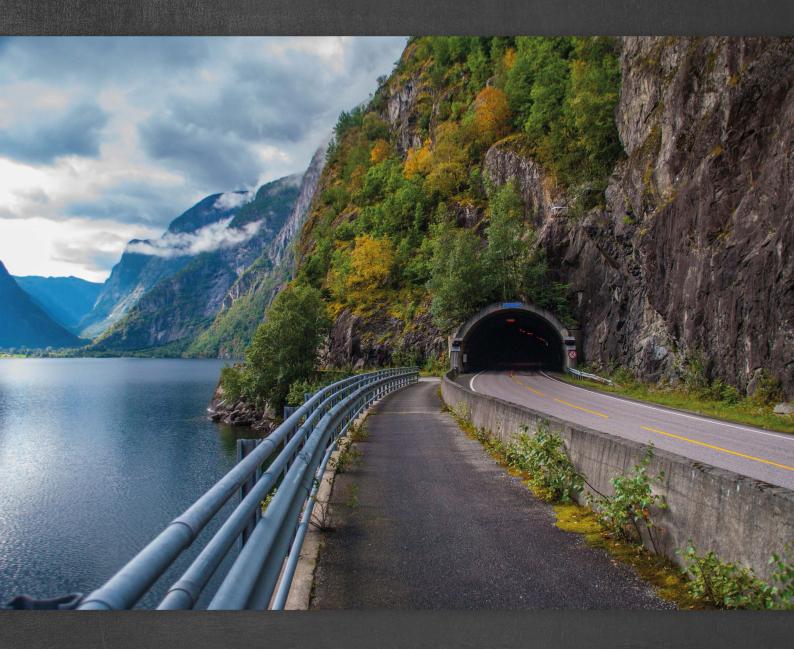


Stavanger, Norway 18.-19. June 2018



Norwegian Tunnel Safety Conference 2018

















About the Norwegian Tunnel Safety Conference

The Norwegian Tunnel Safety Conference's (NTSC) unique approach brings together tunnel operators and owners, policy makers, fire and rescue services with researchers and the tunnelling industry to spark innovative solutions to improve tunnel safety.

The goal of the NTSC is to bring global experts together to focus and share their views about the latest technology, innovations, trends, processes and knowledge to make tunnels safer and reduce accidents.

Organisers NTSC 2018:

Norwegian Tunnel Safety Cluster, ITS Norway, Association for Fire Safety Norway (AFSN), RISE Safety & Transport

Endorsed & Supported by:

ITA COSUF, Rogaland Fylkeskommune, Tekna















Exhibitors & Sponsors

Thanks to our exhibitors & sponsors at NTSC 2018.

















Why Exhibit at the NTSC in Stavanger?

8 companies are invited to present and showcase their latest products and services at the NTSC 2018.

Latest technology and trends

Experience the latest products and advanced solutions during our two-day conference and with exhibitors, visitors and speakers from around the world.

Connect

Hear from conference chairs, speakers and decision makers offering you the opportunity to learn about the latest trends and topics on a global scale.

Brand recognition

Increase awareness through your exhibit space and showcasing your products and services.



08:30 - 10:00	Registration & coffee	12:35 - 13:00	Today's and future's ITS installations Anne-Marie Ytrehus, Project manager TMC 2020, Norwegian Public Roads Administration
	Opening session Chair: Helen Roth, Managing Director, Norwegian Tunnel Safety Cluster	13:00 - 14:30	Lunch & expo
10:00 - 10:10	Welcome to Rogaland & Norwegian Tunnel Safety Conference 2018 County Mayor Solveig Ege Tengesdal		Risk & Security management in tunnels Chair: Arild Søvik, Søvik Consulting
10:10 - 10:30	Opening Director General Kirsti Slotsvik, Norwegian Railway Directorate	14:30 - 14:55	ITS-solutions for safer tunnels Lei Chen, Ph.D and Senior Researcher, RISE Research Institutes of Sweden
10:30 - 11:00	Norwegian Tunnel Safety Center & Norwegian Tunnel Safety Certification Helen Roth and Arild Søvik Norwegian Tunnel Safety Cluster and Søvik Consulting	14:55 - 15:20	Emergency planning and management Han Admiraal, Chairman of ITA Committee on Underground Space (ITACUS)
11:00 - 11:40	Road Tunnel Operations of the World Road Association – PIARC and lessons learned in France	15:20 - 15:50	Coffee & refreshments
	Dr. Marc Tesson, Tunnel Study Centre (CETU) France, and chairman of the Technical Committee Road Tunnels Operations of the World Road Association – PIARC	15:50 - 16:20	Cyber security of tunnel control centres - Possible threats and protection measures Frank Leismann, Dipl-Ing, STUVA, Germany
11:40 - 12:10	Coffee & refreshments	16:20 - 16:45	Quantitative risk assessment and risk-based decision making Bernhard Kohl, ILF Consulting Engineers Austria GMBH
	Intelligent Transportation Systems (ITS) in tunnels Chair: Managing Director Trond Hovland, ITS Norway	16:45	Closing remarks day 1
	Chair, Managing Director Fronta Hoviana, 113 Norway	16:50 - 18:00	Expo & refreshments
12:10 - 12:35	Experiences with security equipment & technologies Terje Floor Heggeland, CEO, TRAFSYS AS	19:00	Conference dinner





























09:00 - 09:05	Welcome
	Tunnel research Chair: Are Wendelborg Brandt, RISE Fire Research Noway
09:05 - 09:40	New study on new energy carriers Maximillian Wietek, Chairman of ITA Cosuf
09:40 - 10:05	"Kapasitetsløft tunnelsikkerhet"- building research capacity in the field of tunnel safetyOve Njå, professor, University of Stavanger
10:05 - 10:30	Presentation of Tunnel & Underground Safety Center (TUSC) Haukur Ingason, Group Leader fire research dynamics, RISE Research Institutes of Sweden
10:30 - 10:55	Research in the Norwegian Public Roads Administration Claus Larsen, Head of tunnel & concrete department, Norwegian Public Roads Administration
10:55 - 11:25	Coffee & refreshments
	Operation and emergency response management Chair: Håkon Winterseth, Association for Fire Safety Norway (AFSN)
11:25 - 12:05	Incident command Chief Garry English, Seattle Fire Department

12:05 - 12:30	Contingency planning
	Morten Sommer, Associate Professor, Western Norway University
	of Applied Sciences
12:30 - 13:00	Expo
13:00 - 14:00	Lunch & expo
14:00 - 14:25	Evacuation in tunnels
	Rune Brandt, Director HIB Haerter
14:25 - 14:50	Mobile units ventilation in tunnels
	Xavier Deckers, Fire Safety Engineer, Fire Engineered Solutions Ghent
14:50 - 15:15	Tunnel Fire ventilation testing and new research
	Joan Piera, Fire Safety Project Director, Applus+ Laboratories
15:15 - 15:20	Closing remarks































The Norwegian Tunnel Safety Cluster (NTSC) was incorporated into the Norwegian Innovation Clusters (NIC) programme in June 2016, and formally established in November of the same year.

The objective of the Arena cluster is to boost its member companies' opportunities to commercialise innovative solutions for improved tunnel safety.

The goal is to develop a sustainable and innovative cluster for companies with the aim of commercialising solutions for improved tunnel safety in Norwegian and international markets. This will contribute towards safer tunnels and fewer accidents, which is vital to road users, the fire and rescue services, the transport sector and local communities everywhere.

Find out more at www.tunnelcluster.com

Welcome back to Norwegian Tunnel Safety Conference in 2019.

Autumn 2019