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1. Message from the Chairman

Dear members of ITA COSUF,

Some four months back, in December 2010, the last ITA COSUF newsletter was sent out to our members. Since then not much of the activities of ITA COSUF were visible from the outside: We were kept busy with the organisation of the next workshop, which will take place in Helsinki next month. You find more information about that in this newsletter or on the website www.cosuf.ita-aites.org. In the context of this workshop also the annual General Assembly will take place to which I would like to invite you too. All participants of the workshop are entitled to participate also in the ITA-AITES welcome reception in the evening of the day before the workshop, on Monday 23. May 2011. For details on that event I ask you to check the above mentioned website.

Unlike other spring workshops of ITA COSUF the Activity Groups will also meet on this occasion: The afternoon of Monday, 23. May 2011 is dedicated to the work within the AGs – your AG leader should have already sent you the programme for these meetings. If you are not yet active within one of the AGs of ITA COSUF you may see this opportunity to attend also one of the meetings of the AGs to get an insight view of their activities. So flying out to Helsinki for these two days will give you a full boost on ITA COSUF activities on all levels and we are looking forward to welcoming as many of you as possible.

Beside the preparation of the Workshop in Helsinki, ITA COSUF also was presented in the Far East: On the occasion of the International Conference on Tunnelling and Trenchless Technology which was held 1.-3. March 2011, ITA COSUF was introduced to the auditorium and could stir quite some interest. Together with the Post-Congress Workshop of the Tunnel Twenty20 Congress which will be held in Hongkong at 22. September 2011 and which is also organised by ITA COSUF we hope to have a sufficient large group of members and interested parties within the Asian countries that ITA COSUF also can become more active and visible in this part of the globe. We will see.

For the time being we are looking forward to the Workshop in Helsinki and to seeing you all there.

Felix Amberg



2. ITA COSUF Workshop “Designing Underground Safety – How far to go?” Helsinki, 24 May 2011

This ITA COSUF workshop 2011 is organised in conjunction with the World Tunnel Congress in Helsinki. This offers unique opportunities for interaction among the participants of the two



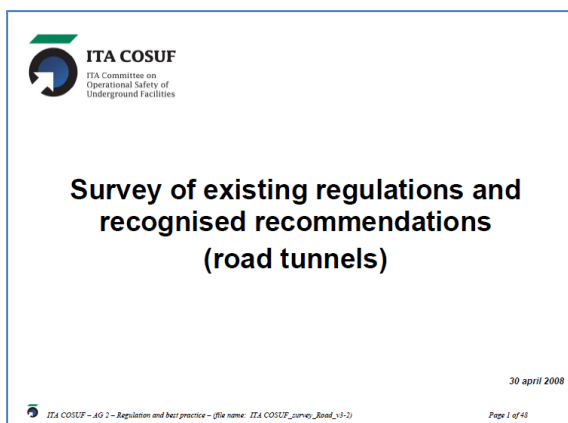
congresses. We thus strongly recommend participating in this COSUF Workshop the more that we have put together a programme with well reputed speakers and experts. The topic of workshop ‘Safety of underground facilities – how far to go?’ also has the potential for controversial discussions on views, opinions and state of the art definitions and hopefully will lead to a lively workshop again.

Please be aware that the program of the workshop is slightly different to the programmes of previous workshops as the General Assembly of ITA COSUF is integrated. Registration is possible through the WTC 2011 website: www.wtc11.org. If you wish to attend only the ITA COSUF workshop please register for the one day

participation on 24 May 2011 only. The venue of the workshop is Finlandia Hall in Helsinki.

3. Report of Activity Group 2:

Update of the survey of existing regulations and recognised recommendations (road tunnel) in progress.



The worldwide list of applicable regulations and recognised recommendations for road tunnel operation and safety was established in 2007-2008 by ITA COSUF in co-operation with the Road Tunnel Operation Committee of the World Road Association (PIARC). See the public area of www.cosuf.ita-aites.org. An update of this list is in progress.

This updated information will be very useful for all professionals (administrations, consultants, contractors, operators, as well

researchers, etc.) who need to know the applicable regulations and recommendations regarding road tunnel operation and safety in each country. We will keep you posted when the results are available.

For all enquiries to COSUF membership please contact Ben van den Horn

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4. ITA COSUF member introduction

WWW.FOGTEC-TUNNEL.com



Active Protection of Tunnels

Over the last decade the idea to protect tunnels by active fixed fire fighting systems has become more and more popular. This refers to road and rail tunnels equally as well as to metro stations. Latest guidelines like UPTUN R251 and NFPA 502 well reflect this development. State of the art for such systems today are so called Water Based Systems. They work with pure water only and in most cases have a superior performance over e.g. foam or other additive based systems. Pure water systems are often favoured because of environmental friendly aspect.

Ideally the installation of an active fire fighting systems creates substantial cost savings for new build or refurbishment projects by decreasing significantly the requirements on structural fire protection and ventilation. At the same time the safety level is dramatically. No other system provides similar life safety than active fire fighting systems, which is important for people being evacuated and fire services entering the tunnel.



Reference Projects

FOGTEC is the world leader for the design and installation of active fire fighting systems for underground facilities. Among other projects FOGTEC is supplying turn-key installations for the Eurotunnel, the Tyne Crossing tunnels in Newcastle and for the M 25 Dartford Tunnels near London. Supplies by FOGTEC include project based fire testing, design, RAMS studies, fire detection, fire localisation, CCTV, control systems, SCADA systems, fixed fire fighting systems and maintenance arrangements.



Team of Experts

The main driver of FOGTEC's activities is its team of dedicated experts originating from the fields of fire safety, chemical, mechanical, hydraulic, electrical, electronic and software engineering as well as from rolling stock design, project management, evacuation planning and fire brigade training. Beside its own resources FOGTEC closely cooperates with a number of well reputed institutes and engineering offices. In reflection of these activities FOGTEC's team has been awarded in 2007 with the "Innovation and Excellence Award" by Railway Interiors and in 2009 with the "Most Innovative Product Award" by UITP.



FOGTEC Research

FOGTEC's activities are based on a wide range of R+D activities. These include the active participations in research consortia like FiT, UPTUN, SOLIT and SOLIT2 (www.solit.info). In the latter two FOGTEC acts as the consortium leader. Further, major full size fire test programs were carried out on behalf of the Highways Agency (UK) and for the Inter Governmental Committee supervising the safety of the Eurotunnel. With this FOGTEC has carried out by far the largest number of full size fire tests for tunnels as well as the largest fires (beyond 200 MW measured heat release rates). The test data available to FOGTEC is unique and serves as the solid base for FOGTEC's consultancy and design services. FOGTEC is further involved in ITA COSUF in Activity Groups 2 and 3 as well as in the Steering Board.



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