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1. Message from the Chairman



Dear members of ITA COSUF,

This is the last newsletter of 2014. Consequently, I would like to look back to the last months and then have an outlook to the plan of ITA COSUF in the coming year.

In October we met for our ITA COSUF workshop in Copenhagen. A bus full of the members attended the meetings and the tour to various interesting metro tunnel construction sites in Copenhagen. The event was perfectly organized by Stig Ravn and his contacts at Metroselskabet and I would like to thank him once again for his effort and the kind invitation. The participants were welcomed by the ITA president Søren Eskesen, who gave compliments for the numerous activities of COSUF. The presentations given by the Danish presenters on safety aspects of the on-going or planned metro were very informative for the ITA COSUF members. You will find

more information about the event in Copenhagen further down in this newsletter.

The next ITA COSUF event will take place in Croatia. The annual public workshop and the General Assembly will be held in Dubrovnik on the occasion of the ITA World Tunnel Congress. The date has been set at May the 25th. The topic of the workshop is already fixed: “Aging Tunnels – Safety in operation and during refurbishment”. The issue is certainly one of the most discussed in many countries and we hope that our workshop will be able to bring some interesting views and opinions to it. In any case I ask you to block the date of the workshop already in your agenda! As soon as we have further information we will let you know. During this workshop the ITA COSUF Award 2015 will be handed out. You can read more about it in section 6 and you are kindly invited to inform young professionals about this award.

So close to the end of this year, all Steering Board members and I would like to take the opportunity to thank you for the support and the cooperation of ITA COSUF in the past twelve months and we wish you good health and a happy and prosperous New Year.

Yours,

Roland Leucker - ITA COSUF Chairman



2. Report of the ITA COSUF Workshop in Copenhagen, 29 October 2014

On 29 October the private ITA COSUF Workshop was held at the metro Control and Maintenance Centre (CMC). Tailor-made presentations were given for COSUF members on the safe operation and maintenance of both the old and the new metro lines in Copenhagen by experts and operational staff. Visits to CMC and to the new metro construction were part of the program. In the afternoon a bus drive showed us how the existing Metro is expanded with a new city circle line (Cityringen). The Cityringen circle line is a completely new Metro line constructed on the same principles as the existing Copenhagen Metro net. It will be a 15 km underground railway under downtown Copenhagen, the "bridge quarters" and Frederiksberg with 17 underground stations. Interesting facts about the Cityringen is that it will have frequent departures and operate without a pre-defined timetable, it will take approximately 24 minutes to travel all the way around the circle line. When trains are running in both directions, the longest single trip will take approximately 14 minutes. It is expected to be completed in 2019.



4. Report from the Activity Groups

AG1 Interaction with European and international initiatives

More effort was put in a software tool to identify relevant events for ITA COSUF to liaise with. The tool is capable to list events in the future as well as in past (with the purpose to be alert to add periodically repeating events in the future) and mark them when they are interesting for COSUF to endorse. It was decided to start earlier with the communication about COSUF events. The creation of a new COSUF website was discussed and



a new website will be set up in the future. Finally, it was suggested to have a plenary moment in one room during the AG Meetings with all ITA COSUF members active in the AG's after the AG Meetings. New members can introduce themselves. AGL's can exchange the progress in their meetings.

AG2 Regulations and best practices

AG2 is still working on the recommendations for layout of human machine interface of SCADA systems (Interface between operator and system – user system). Upcoming activities are road tunnel standards (updating the previous report made by AG2 on standards for existing road tunnels), SCADA, disabled persons in emergency scenarios, tunnels influences on the wider road network and cross passage design in rail tunnels.

AG3 Research and new findings

Usual activities within AG3 include the exchange on content and results of recent research projects on tunnel safety and security. By doing that our members gain a full overview of the current research landscape as well as trends in tunnels safety and security within the EU and worldwide. AG3 also provides a newly developed “list of expertise”, where every member of AG3 (and COSUF as a whole) is invited to display his expertise, which will then be distributed within COSUF. For additional information please contact the AG-Animator Götz Vollmann via Goetz.vollmann@rub.de.

Additionally, a core group of AG3 members is currently preparing a proposal for a Marie-Curie-Funding on tunnel safety, including University of Sheffield, SP, TU Delft, Ruhr-University Bochum, Lund University, Fogtec, IFAB, PROMAT, University of Gent, Efectis, VSH and others. The proposal is due at the beginning of January.

AG4 European Tunnel Safety Officers

AG4 aims to be the Platform for European Tunnel Safety Officers for exchange of experiences through its bi-annual forum and development of best practices.

After the 3rd Forum took place in March this year, two meetings of AG4, in June & October 2014, have taken place. Besides looking back on the 3rd Forum much time was spent on the preparation of the next Forum. The outline of the program, including workshops and a site visit, was discussed and during the next meeting in Croatia (ITA-WTC 2015) choices will be made.

The 4th EU TSO Forum is planned in March 2016 and at this moment four possible themes are considered: Impact of aging, Operating tunnels safely during refurbishment, Tunnel safety starts before design and Commissioning & Testing of new tunnels. Other topics on the agenda of AG4 are: the role and responsibility of emergency services, degrading of tunnels and failures, minimal operation requirements and best practices on tunnel safety documentation.



5. ITA-COSUF Workshop on “Aging Tunnels – Safety in operation and during refurbishment” (WTC 2015)

This ITA COSUF Workshop 2015 is organized in conjunction with the World Tunnel Congress in Dubrovnik. 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 program with well reputed speakers and experts. The topic of workshop ‘Safety in operation and during refurbishment’ 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.



The General Assembly of ITA COSUF is integrated in the Workshop. Registration will be possible on short notice through the WTC 2015 website: <http://wtc15.com/>. If you wish to attend only the ITA COSUF workshop please register only for the one day participation on 26 May 2015. The venue of the workshop is the Valamar Lacroma Dubrovnik Hotel.

6. ITA COSUF Award 2015 is open to candidates

At their last meeting on 28 October 2014 in Copenhagen, the Steering Board confirmed the importance of the ITA COSUF Award to raise awareness of underground safety and security among the new generations of practitioners and researchers and attract them to work on these topics. Consequently, they decided to launch the ITA COSUF Award 2015.

Who can apply

Students, young professionals or researchers (less than 35 years old) are eligible if they have recently (in the last 2 years) completed a research work in theory and/or practice in the area of operational safety or security of underground facilities. Applicants need not be ITA COSUF members.

The prize

Together with the award certificate, ITA COSUF shall grant the winner travel and accommodation costs to attend the award ceremony and a 1000 Euro prize.



The award ceremony

The ITA COSUF Award 2015 will be presented in the 2nd quarter of 2015 during the ITA COSUF Workshop on Aging Tunnels - Safety in operation and during refurbishment on 26 May 2015. The winner shall have the opportunity to present his/her own work during a plenary session of the workshop, which will take place during the ITA World Tunnel Congress.

The deadline

Any other information, including contents of the application file, is available on the COSUF website <http://cosuf.ita-aites.org/>. The application in English language must be received by the ITA secretariat by 28 February 2015.

Action expected from readers of this newsletter

All readers of this newsletter are kindly invited to inform young people inside or outside their organisation about this award and suggest that they apply if they have achieved interesting work in the scope of COSUF. A press release and detailed information are available on the COSUF website.

7. Future ITA COSUF events

ITA COSUF workshops and Activity Group meetings

22 – 29 May 2015

World Tunnel Congress 2015, Dubrovnik (Croatia)

ITA-COSUF will organize a whole day open workshop. AG meetings will take place on the afternoon of 25 May.

Other events organised or endorsed by ITA COSUF

For all enquiries to ITA COSUF membership please contact Ben van den Horn ben.vandenhorn@arcadis.nl



8. ITA COSUF member introduction: Vegvesen



Statens vegvesen

The Norwegian Public Roads Administration is the official roads administrator of national and county highways in Norway. The agency is responsible for planning, building and maintaining the public road network of around 55.000 km. Of these, 1000 km is highway tunnels, divided on 1100 tunnels.

Most Norwegian tunnels are rural one bore tunnel with an average AADT of 4000, but in the later years, more and more high traffic urban and motorway tunnels has been built. The partly subsea Opera tunnel in Oslo which is 6,5 km and have several on and off ramps is the most trafficked with an AADT around 100.000.

NPRA opens many new tunnels each year and has at the moment around 50 tunnels under construction. To reach the deadline for upgrading the safety levels to EU-regulations, 200 tunnels will require smaller and larger works. In Oslo alone, 11 urban tunnels will be upgraded in the next few years.

Norway is divided in five regions which each has one Tunnel Safety Officer, with the exemption of the Western region, which has two due to a very large amount of tunnels (more than 500). To assist the TSO, all tunnels have also a dedicated Fire Safety Officer. The FSO has many of the responsibilities that are usually handled by the TSO in other countries. Norway has around 20 FSO's. The FSO is in contrast to the TSO not independent of the tunnel manager, but acts as a representative of the TM. The TSO must therefore make sure that the work of the FSO is done in according to regulation and not hampered by the TM.

The Directorate of Public Roads acts as the head office of NPRA, makes National guidelines and are responsible for R&D, usually in close collaboration with tunnel managers and tunnel building projects. A large ongoing R&D project is 'Durable Structures' which among other things are looking into durable materials and smart solutions in road tunnels.

NPRAs Eastern region which compress the Oslo Metropolitan area has the highest number of high traffic tunnels in Norway, the latest two opened on the E6 motorway north of Oslo on December 13. The Oslo Traffic Control Centre is one of Europe's busiest, controlling more than 50 high traffic urban and motorway tunnels, with the downtown Oslo Opera tunnel as the largest and busiest. They also control two other subsea highway tunnels, among them the ill-fated Oslo fjord tunnel. The planning of a duelling of this tunnel and establishing escape passages are now underway.

Central in coordination of tunnel planning and works in the Eastern Region is the Contracting Management Section's Tunnel team. This three person strong team is comprised of Corinne Chiodini; Tunnel data coordinator, Salim Bahzad; tunnel planning coordinator and Marius Hofseth, the regional TSO. Together they supervise all planning, commissioning and management of tunnels in the region. At the moment there is no end in sight of tunnel projects either in the Eastern region or in the rest of Norway.

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