



Training session ‘Tunnelling & Landslides’

25 - 26 January 2016

Venue: Ministry of Transport

Riyadh – Saudi Arabia

Objective: Landslides & ground instabilities represent a major risk to transport infrastructures & their users. The session aims to introduce these considerations & to give key elements to the infrastructure designer. It will also explain how tunnels can offer very interesting solutions for safer infrastructures in landslides areas providing they are designed with specific attention to very important aspects & parameters.

Monday 25 January 2016

08:00-08:45: Registration

08:45 - 09:00: Welcome & Opening

09:00 - 09:15: Brief ideas & terminologies about the landslides – A. Amri

09:15 - 09:45: Landslides: Overview to a global phenomenon – H. Wagner

09:45 - 10:15: Landslides: Mechanics in Soils & Rocks – H. Wagner

10:15 - 10:45: *Coffee Break*

10:45 - 11:15: Geotechnical investigation in landslide areas – A. Assis

11:15 - 12:00: Geomechanical evaluation of landslide areas – A. Assis

12:00 - 12:30: *Prayer*

12:30 - 13:15: Landslide Stabilization – Means & Methods – A. Assis

13:15 - 14:00: Tunnels as a mean for landslide stabilization – D. Peila

14:00 - 14:45: Tunnels as alternative solution to prevent landslide risk – D. Peila

14:45 - 15:00: Discussion

15:00: *Lunch*

Tuesday 26 January 2016

09:00 - 09:30: Tunnels for motorways in landslides areas – M. Deffayet

09:30 - 10:15: Case-histories of motorway tunnels in landslides areas – M. Deffayet

10:15 - 10:45: *Coffee Break*

10:45 - 11:15: Tunnels for railways in landslides areas – P. Grasso

11:15 - 12:00: Case-histories of railway tunnels in landslides areas – P. Grasso

12:00 - 12:30: *Prayer*

12:30 - 13:15: Risk analysis & management – Decision tools – H. Wagner

13:15 - 14:00: Examples of risk management – H. Wagner

14:00 - 14:20: Flood in urban environment – P. Grasso

14:20 - 15:00: Roundtable & discussion

15:00 - 15:15: Closing remarks

15:15: *Lunch*

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