

Training session ‘Rock fall protection techniques’

27 January 2016

Ministry of Transportation – Riyadh (KSA)

The objectives of the courses: to present & discuss innovations of protection devices that can be used to protect infrastructures against rock fall events.

The training course will be developed as follows:

- Short presentation on rock fall design peculiar ad critical aspects;
- Discussion on the trajectories forecast methods. The lessons will not discuss in detail the various codes that are available on the market but will discuss the key point to be taken into account, weakness & mistakes that can be done during design;
- Presentation of the possible technological alternatives to give a global picture of the tools that a designer has available when has to face a real design;
Technological & design aspects of net fences, embankments & drapery meshes. This is the core of the course & after the discussion on the construction aspects the dynamic behavior of these structures will be presented. Design methodologies will be proposed & discussed;
- Case stories discussion.

Tentative Programme

08.00 – 08.45:	Registration
08.45 – 09.00:	Welcome & Opening
09.00 – 09.45:	General overview of the rock-fall protection problem & geo site surveying: critical aspects & key points - “Geo” site surveying: important and/or critic points with special attention to rock fall- Possible design alternatives. Tunnels or slope protection – J.L. Durville
09.45 – 10.15:	Prevision of trajectories of rockfall events: how to carry out a correct trajectory prevision – J.L. Durville
10.15 – 10.45:	Coffee break
10.45 – 11.00:	General presentation of the possible technologies – J.L. Durville
11.00 – 11.30:	Net fences: Description of available technologies -Tests on net fences - European guidelines for testing and certification of the product: ETAG 027 - Design procedure – D. Peila
11.30 – 12.00:	Case Study: ‘ Net fences as a Rock fall protection technique ’ – D. Gross (Geobrugg Company)
12.00 – 12.30:	Prayer
12.30 – 13.00:	Embankments: Description of available technologies - Tests on reinforced embankments - Proposal for a design procedures – D. Peila
13.00 – 13.30:	Case Study: ‘ Rock fall control from the Alpine environnement ’ – P. Mazzalai (SWS Company)
13.30 – 14.00:	Drapery meshes + surface reinforcement: Description of available technologies - Design procedures - European experiences – D. Peila
14.00 – 14.30:	Case Study: ‘ Drapery meshes & surface reinforcement as a Rock fall protection technique ’ – C. Ferracuti (Maccaferri Company)
14.30 – 15.00:	Round Table & closing
15.00:	Lunch

Update(d): 26/11/2015