

# REPORT ON THE VI EDITION (2007/2008) OF THE POST-GRADUATE MASTER COURSE in TUNNELLING and TUNNEL BORING MACHINE

The teaching activity of the Post Graduate Master Course on "Tunnelling and Tunnel Boring Machines" (1 year of specific training in the tunnelling sector) ended with a technical visit to the sites of tunnels excavated with EPB machines.

The class-lessons took place from November 2007 to May 2008 with a total of 490 hours and then the students followed a two months practical working period in European work sites and design companies.

The course will be concluded with the discussion of the degree thesis.

The course is offered by the Politecnico di Torino (Italy) as part of its official curriculum; it has been endorsed by ITA/AITES and it is under the patronage of SIG - Italian Tunnelling Association.

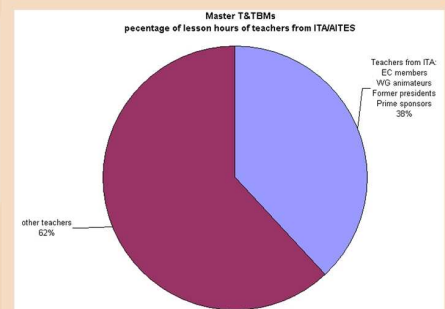
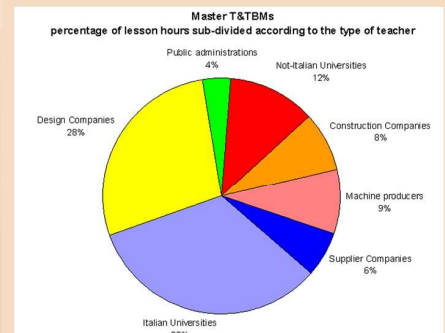
The teaching organization and management of the course was made by TUSC (Tunnelling and Underground Space Center of the Dept. of Environment, Land and GeoEngineering of Politecnico di Torino which is member of ITA/AITES) together with COREP (Consortium for Research and Continuing Education at Politecnico di Torino) under the direction of Prof. S. Pelizza, ITA former President.

The lessons were given by more than 50 teachers from Universities (Brasil, Germany, Italy, Switzerland, Turkey, USA), from design companies (Italy, Switzerland, USA, Canada, Austria, Spain), from construction companies (Italy), from public administrations (Italy) and from machine construction companies and suppliers (Austria, Canada, Finland, Germany, Italy, Singapore, Norway, Switzerland).

The various and multidisciplinary competence given by this training staff allowed the students to have a practical view of the problems involved in the design and the construction of tunnels when using a TBM.

The lessons were organized in 3 main modules: the first "Tunnel design and construction methods" had the goal of presenting and discussing the most relevant aspects of the design and the construction of a tunnel; the second "Mechanized tunnelling" described TBM tunnelling in rock and soils in detail and the design of the machine-tunnel system and the last one: "Management of job sites" offered students the basic concepts necessary for the organization, safety and contractual aspects for the good management of a tunnel site.

A total number of 10 students took part, some, where newly graduated, some professional figures and some operators already working in the sectors from Italy, India, China, USA, Costa Rica, Portugal.



Endorsed by INTERNATIONAL ASSOCIATION OF TUNNELLING AND UNDERGROUND SPACE CENTERS (ITA) AITES

Under the patronage of Italian Tunnelling Society Member of ITA/AITES

in partnership with TUSC

Didactic Managerial Team

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