

POWERPOINT PRESENTATION

Session 1: Introduction and Overview on Tunnel Design

Design philosophy of tunnels for KVMRT
By Andreas Raedle

Geological Models and Geomechanical Investigation
By Dr. Noppadol Phienwej

Settlement Prediction and Control in Urban Tunnelling
By Dr. Noppadol Phienwej

Specific Parameters Affecting Design
By Professor Jinxiu Yan

Session 2: Choosing the Appropriate Construction Method during Design

Conventional Tunnelling in Hard Rock
By Emmanuel Humbert

Conventional Tunnelling in Soft Soil
By Emmanuel Humbert

Mechanized Tunnelling (TBM and Support Systems)
By Thorsten Tatzki

Health and Safety Issues and Impact on Tunnel Design
By Alain Poloni

Session 3: Design and Calculation Methods

Rock Engineering Design
By Emmanuel Humbert

Analytical and Numerical Methods
By Emmanuel Humbert

Risk Management in Tunnelling: The Contractor's Perspective
By Gus Klados

Design of Face Pressure, Soil Conditioning and Backfilling for TBM
By Thorsten Tatzki

Session 4: Specific Aspects of Tunnel Design

Monitoring and Control for Conventional and Mechanized Tunnelling
By Professor Jinxiu Yan

Case Study of a Complex Urban Tunnel in Monaco
By Alain Poloni

Construction of the SMART Project: The Contractor's Perspective
By Gus Klados

Urban Tunnelling in Singapore
By Senthilnath