



WORKSHOP “RECENT ADVANCES IN TUNNELLING”

ACTUE – Ruhr University Bochum – Cambridge University

October 6th, Salzburg Congress Center, **Trakl Room 3rd Floor**

(Address: Auerspergstraße 6, 5020 Salzburg)

Workshop Programme

08:00 – 09:00 Registration (Main Entrance Congress Center)

09:00 - 10:30

Kenichi Soga (Cambridge)

FO monitoring of sprayed concrete lined cross passages

Qiang WANG (Tongji)

Remote automatic monitoring of railway station deformation caused by shield construction and its data preprocessing

Andreas Buyer (Graz)

Digital ground mapping - background and application

Yiyang HAN (Tongji)

Application of digital image correlation method in experimental research on crack propagation of concrete

10:30 - 11:00 Coffee Break

Jelena Ninić (Bochum)

Computational strategies for predictions of the soil-structure interaction during mechanized tunneling

Vanessa Di Murro (Cambridge)

Long term performance of CERN tunnels

Yanjie ZHANG (Tongji)

Field study on tunnel lining resilience

Zili Li (Cambridge)

Long-term ground displacements and tunnel performance in London Clay

Yuelang JIN (Tongji)

Test and analytical study on the structural response of segmental linings in the ground penetrating shield tunnel

12:50 - 14:00 Lunch Break

14:00 - 15:50

Wulf Schubert (Graz)

Tunnelling in squeezing ground - problems and solutions

Qin GONG (Tongji)

A unidirectional microcrack-based transverse isotropic model for sedimentary rock

Alessandra Paternes (Graz)

Comparison EC7 design approaches for tunnelling employing a nonlinear shotcrete model

Shorash Miro (Bochum)

A probabilistic analysis of subsoil parameters uncertainty impacts on tunnel-induced ground movements with a back analysis study

Chao DUAN (Tongji)

Research on time and spatial characteristic and level alarm system of tunnel collapse

15:50 - 16:15 Coffee Break

16:15 - 17:45

Robert Galler (Leoben)

Development of resource-efficient and advanced underground technologies

Hartmut Erben (Leoben)

MineralBay – the Portal for Raw Materials and Projects related to Subsurface Construction Activities

Jakob Küpferle (Bochum)

Wear testing of TVM tools - Consideration of actual used approaches with regard to material aspects

Jinghua ZHANG (Tongji)

Shaking Table Test of Complex Joints in Shield Tunnel

17:45 Closure

20:00 Workshop Dinner (Hotel Sheraton at Congress Center)

Note: Participation to ACTUE workshop is free of charge including Workshop Dinner, but registration for EUROCK is required. Please register soon and also book accommodation as soon as possible, see

<http://www.EUROCK2015.com>