

JULY 14-15, 2011

Softwarepark Hagenberg, Linz / Austria

ITACET Foundation
Training Session

SOFTWARE APPLICATION IN TUNNELLING

This first seminar on “Software Application in Tunnelling” focuses on comprehensive education and training of Tunnelling Engineers based on latest state of the art software controlled methods in virtually all fields of Tunnel Engineering and Construction. Main topic of this event will be the applicability of “Software Application in Tunnelling” in all relevant fields of Tunnel Engineering such as design, construction supervision and risk management as well as Construction Purposes. The importance of tunnelling software in both tunnel design and construction in general and also the possibilities and procedures for implementation will be shown. The conference will also focus on the usage of “Software Applications in Tunnelling” in connection with ground monitoring and related design interactions. Future developments of “Software Applications in Tunnelling” will be supported by related research projects in Tunnel Engineering thus providing extensive and useful additions and amendments.

AGENDA - Thursday, July 14, 2011

09.00 - 09.30 Welcome and Opening Felix Amberg, Bruno Buchberger

SESSION 1 OVERVIEW AND GENERAL ASPECTS | CHAIRMAN PIERGIORGIO GRASSO

09.30 - 09.55	New Math Methods: Symbolic Computation	Bruno Buchberger, RISC Institute
09.55 - 10.20	The Future of Numerical Computation in Tunnelling	Helmut F. Schweiger, Technical University of Graz
10.20 - 10.45	New Math Methods: Numerical Computation	Ronny Ramlau, RICAM Institute
10.45 - 11.15	Coffee Break	
11.15 - 11.45	Software Application in Tunnelling in View of a Consultant	Felix Amberg, Amberg Technologies
11.45 - 12.15	Software supported Risk Management for large Motorway Concessionaires	Michael Steiner, Asfnag-Austrian Motorway Concessionaire
12.15 - 12.45	Software Application in Railway Tunnelling in View of a Client	Johann Herdina, ÖBB - Austrian Federal Railways
12.45 - 14.00	Lunch	

SESSION 2 USE OF SOFTWARE IN TUNNEL ENGINEERING | CHAIRMAN NEJAD AYAYDIN

14.00 - 14.25	Ground Deformation Behavior and Trend Lines	Wulf Schubert, Technical University of Graz
14.25 - 14.50	Evaluation of Stresses in the Shotcrete Lining from 3D Measurements	Markus Brandtner, IGT Geotechnik & Tunnelbau
14.50 - 15.15	Tunnel Lining Computation	Miroslav Marenc, Pöyry
15.15 - 15.45	Coffee Break	
15.45 - 16.10	Geotechnical Design Basics for Shallow Tunnels	Robert Galler, Mining University of Leoben
16.10 - 16.35	Use of Numerical Software for Research Projects	Hans Born, Fides DV-Partner
16.35 - 17.00	Monitoring and Interpretation	Wulf Schubert, Technical University of Graz

19.00 Seminar Banquet in the Ars Electronica Center Linz Bookie Mountain Jazz Trio

AGENDA - Friday, July 15, 2011

SESSION 3 USE OF SOFTWARE IN TUNNEL CONSTRUCTION | CHAIRMAN PETER KOGLER

09.00 - 09.25	Geological Survey Software as Basis for Engineering	Kurt Klima, Technical University of Graz
09.25 - 09.50	TBM - Automation	Detlev Jordan, Aker Wirth
09.50 - 10.15	Monitoring Equipment for Software Controlled Systems	Klaus Rabensteiner, Geodata Leoben
10.15 - 10.40	Documentation and Controlling of Tunnel Projects	Friedrich Karl Blindow, Intertunnel
10.40 - 11.10	Coffee Break	
11.10 - 11.35	Numerical Modelling for a robust Risk Management Plan	Piergiorgio Grasso, Geodata Torino
11.35 - 12.00	Software - Controlled TBM - Tunnelling "Simtunnels"	Matthias Türtscher, Technical University of Innsbruck
12.00 - 12.25	Automatic Person Detecting System & Air Flow Monitoring for Underground Projects	Bernhard Wimmer, Durstmüller
12.25 - 12.50	RIAAT - A Software Tool for Probabilistic Cost and Risk Analysis	Philip Sander, SSP BauConsult
12.50 - 14.00	Lunch	

SESSION 4 WORKSHOP SESSIONS ON SELECTED TOPICS (*) | CHAIRMAN ANDRÉ ASSIS

14.00 - 17.00	FE-Analysis 2 and 3 Dimensional Simulation	Miroslav Marenc, Pöyry
	Geotechnical Risk during Excavation	Wulf Schubert, Technical University of Graz
	Monitoring	Robert Galler, Mining University of Leoben
	Tunnel Site Organization / Software Guided Controlling	Harald Wagner, Tunnel Consultant

(*) Rotation between 4 different Rooms

17.00 - 17.40 Wrap-up "Round Table" Piergiorgio Grasso, Harald Wagner, Nejad Ayaydin, Peter Kogler

ORGANIZING COMMITTEE



Honorary
Chairman
HE Abdullah
Al Mogbel



Conference
Chairman
André Assis



Organizing
Chairman
Bruno Buchberger

REGISTRATION

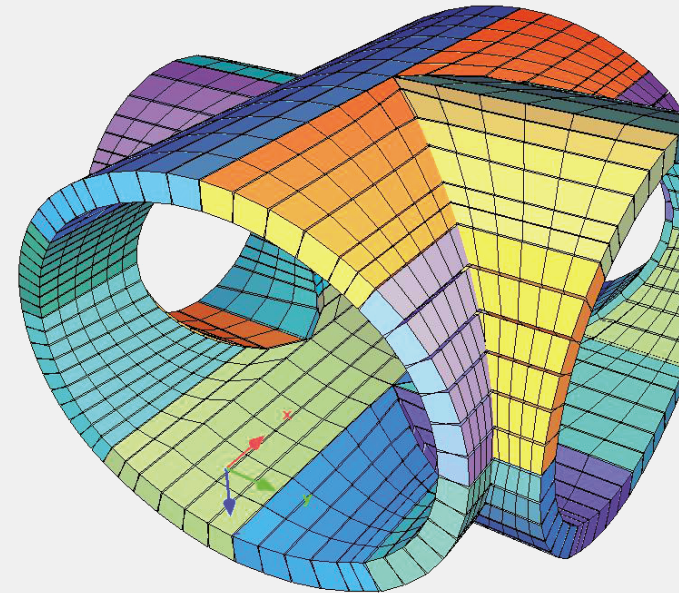
CONFERENCE FEE

2 days*	EUR 270.00
Reduced fee for students	EUR 195.00
*incl. coffee breaks, lunches and banquet	

REGISTRATION DEADLINE

July 1, 2011
Early Registration June 1, 2011 (10 % reduced fee)

For more detailed information please visit
www.itacet-software.com



CONFERENCE SECRETARIAT

Softwarepark Hagenberg
Hauptstraße 90, A-4232 Hagenberg

Phone +43 (0) 7236 3343 400

Fax +43 (0) 7236 3343 590

E-mail pechboeck@softwarepark-hagenberg.com

Web www.softwarepark-hagenberg.com

