



COLLABORATIVE RESEARCH CENTER 837

INTERACTION MODELING IN MECHANIZED TUNNELING

RUB

INTERNATIONAL WORKSHOP:

CUTTING TOOL - SOIL INTERACTION

5TH JULY 2013 Veranstaltungszentrum Ruhr University Bochum - Room 3
Universitätsstraße 150 – 44801 Bochum

The SFB 837 workshop “Cutting Tool - Soil Interaction” focuses on modeling approaches for the excavation processes at the cutting wheel of tunnel boring machines in particular in soft soils.

WORKSHOP PROGRAM – 05. July 2013 – 12:30 - 18:00

12:30	Discrete Element Simulation of Rock Cutting Processes Prof. Jerzy Rojek (Polish Academy of Sciences, Poland)	15:15	Break
13:15	From Fracture to Fragmentation Dr. Falk Wittel (Swiss Federal Institute of Technology Zurich, Switzerland)	15:45	DEM-Based Simulations of Rock Destruction Prof. Heinz Konietzky (Technische Universität Bergakademie Freiberg, Germany)
14:00	Implications of Cutting Tool Wear in Soil on TBM Advance & Development Dipl.-Geol. Florian Köppl (Herrenknecht AG, Germany)	16:30	Abrasivity Assessment and Wear Prediction for TBM Tunneling Dr. Heiko Käsling (Technische Universität München, Germany)
14:45	Cutting and Material Transport in EPB Shield Machines: A Coupled Simulation Approach Prof. Klaus Hackl (Ruhr University Bochum, Germany)	17:15	The Cutting of Soils and Rocks in Dredging Ir. Rudy Helmons (Delft University of Technology, The Netherlands)
		18:00	Workshop Dinner



REGISTRATION

Registration fee: € 50,-
(Members of Ruhr University Bochum: € 25,-)

For registration please visit the workshop webpage:
www.rub.de/sfb837.

WWW.RUB.DE/SFB837