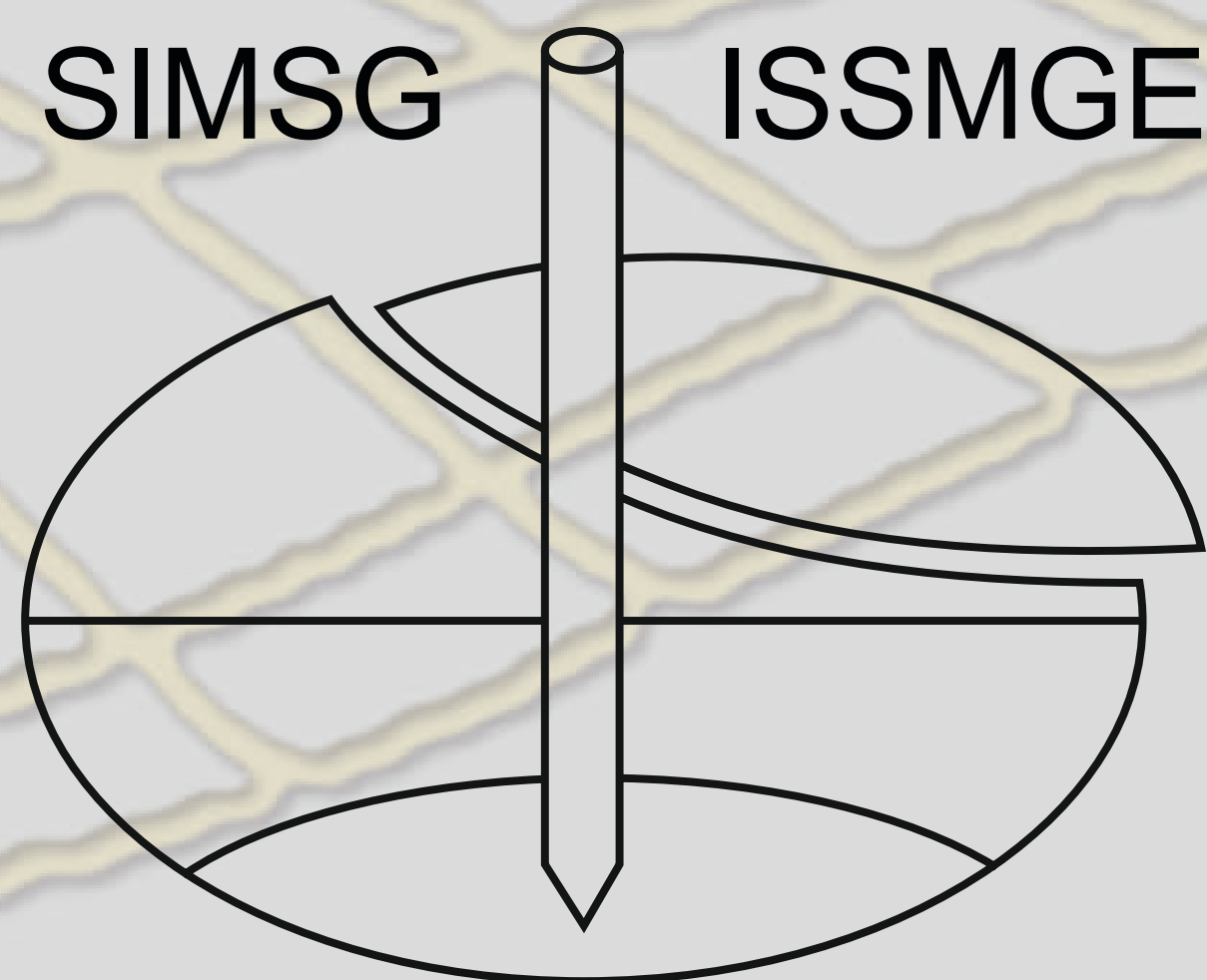


COLLABORATIVE RESEARCH CENTER  
**INTERACTION MODELING IN  
 MECHANIZED TUNNELING**



TC204  
**UNDERGROUND  
 CONSTRUCTION**

**RUB**

JOINT WORKSHOP:

# MECHANIZED TUNNELING IN SOFT GROUND

**MAY 4<sup>TH</sup>, 2019 – WTC 2019 – MOSTRA D'OLTREMA, NAPLES**

Chairmen: Prof. Adam Bezuijen, University Ghent; Dr. Britta Schöber, Ruhr University Bochum

Since 2011, the SFB 837 has established a continuous collaboration "Recent Advances in Tunneling and Underground Space Research" with various international academic partners. Among other research institutions, this includes the IKC Cambridge, UK; the Tongji University Shanghai, China; the ACTUE-Group, Austria; the Colorado School of Mines, USA; the Sapienza University of Rome, Italy and the University of Cork, Ireland. This year, the joint workshop is com-

bined with the Technical Committee 204 "Underground Construction in Soft Ground" of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and will be integrated into the World Tunneling Congress (WTC 2019) in Naples, Italy. Currently, the workshop is organized by Prof. Dr. ir. Adam Bezuijen, Ghent University, Belgium, and Dr.-Ing. Britta Schöber, SFB 837 sub-project manager, Ruhr University Bochum, Germany.



## PROGRAM MAY 4<sup>TH</sup>, 2019 – 10:00 - 16:00

10:00	<i>Opening and General Overview</i>	12:30	<i>Lunch</i>
10:10	<b>Modelling Mechanised Tunnelling in Urban Areas: Matching Requirements and Avoiding Potential Errors</b> Elena Chiriotti <i>INCAS Partners</i>	13:30	<b>Eulerian Analyses of Mechanised Tunnel Excavation</b> Nunzio Losacco <i>Sapienza University of Rome</i>
10:30	<b>Feeling the Muck: a Step Towards Automation</b> Daniela G. de Oliveira <i>Herrenknecht AG</i>	13:50	<b>Experimental Investigation of the Flow Behaviour of Conditioned Soils for EPB Tunnelling in Closed Mode</b> Sascha Freimann, Markus Thewes <i>Ruhr University Bochum</i>
10:50	<b>The Face Support Pressure in Tunnelling with TBM-EPB: on Site Measurements and Conditioned Soil Properties</b> Diego Sebastiani, Salvatore Miliziano <i>Sapienza University of Rome</i>	14:10	<b>Influence of Conditioning and its Time Decay on the Geomech Behavior of Soil</b> Andrea Carigi, Daniele Martinelli <i>Politecnico di Torino</i>
11:10	<i>Coffee Break</i>	14:30	<i>Coffee Break</i>
11:30	<b>Dealing with Soft Ground Situations in Segmental Lining Design</b> Benno Ring <i>Ring - Consultancy in Tunnelling</i>	14:50	<b>Cutterhead Torque Components and Estimation Approaches for TBM Design in Softground Tunnelling</b> Kathrin Glab <i>Herrenknecht AG</i>
12:00	<b>Robust Design of Hybrid Steel Fiber Reinforced Concrete Tunnel Lining Segments</b> Gerrit Neu, Günther Meschke <i>Ruhr University Bochum</i>	15:20	<b>Data Driven Modeling of EPB TBM Performance</b> Mike Mooney <i>Colorado School of Mines</i>
		15:50	<i>Closing remarks</i>

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