

# Workshop Cambridge-Tongji-ACTUE-SFB837

## 20<sup>th</sup> of April 2017 – Workshop: Recent Advances in Tunneling Research

(Hosted by Prof. Hofstetter, University of Innsbruck – Faculty of Engineering Science)

<b>14:00 – 14:10</b>	<b>Opening / Prof. Guenther Meschke</b>
<b>14:10 – 15:30</b>	<b>Session 1 / Chairman: Prof. Yong Yuan</b> <ul style="list-style-type: none"><li>• <i>Degradation of Cracked Subway Tunnel Structure by Crack Propagation and Leakage Influence Analysis on Subway Tunnel Lining Safety Bring by Defects</i> Sun Yan / CCE - Tongji University</li><li>• <i>Numerical Analysis of Tunnel Face Stability</i> Allesandra Paternesi / Tech. University Graz</li><li>• <i>Centrifuge Modelling of Parallel Piggy-back Tunnelling in Clay</i> Chang Ye Gue / IKC - University of Cambridge</li><li>• <i>Hybrid Concrete Elements with Splitting Fiber Reinforcement under Strip-loading</i> Sven Plueckelmann / SFB 837 – RU Bochum</li></ul>
<b>15.30 – 15.50</b>	<b>Coffee break</b>
<b>15:50 – 17.10</b>	<b>Session 2 / Chairman: Prof. Markus Thewes</b> <ul style="list-style-type: none"><li>• <i>Multi-scale Physical Model of Shield Tunnel Applied in Shaking Table Tests</i> Zhen Bao / CCE - Tongji University</li><li>• <i>Ground and Building Response to Urban Tunnelling in Sand</i> Stefan Ritter / IKC - University of Cambridge</li><li>• <i>Influencing Factors on Tunneling Induced Building Settlements and Design of Optimal Sensor Locations</i> Chenyang Zhao / SFB 837 – RU Bochum</li><li>• <i>Stochastic Analysis of Polymer Composites Failure Modeled by a Phase Field Method</i> Jie Wu / CCE - Tongji University</li></ul>
<b>17.10 – 17.30</b>	<b>Coffee break</b>
<b>17:30 – 18:30</b>	<b>Session 3 / Chairman: Dr. Mohammed Elshafie</b> <ul style="list-style-type: none"><li>• <i>Fibre Optic Monitoring and Modelling of a Deep Excavation Adjacent to Existing Tunnels</i> Zili Li / IKC - University College of Cork</li><li>• <i>BIM-to-FEM: Incorporating Numerical Simulations into BIM Concepts with Application to Real Tunneling Projects</i> Abdullah Alsahly / SFB 837 – RU Bochum</li><li>• <i>Nonlinear Numerical Simulation for the Mechanical Behavior of Shield Tunnel Linings Strengthened by Epoxy-bonded Filament Wound Profiles</i> Zijie Jiang / CCE - Tongji University</li></ul>
<b>18.30</b>	<b>Closing - Prof. Guenther Meschke</b>