# Workshop Cambridge-Tongji-ACTUE-SFB837

**20\textsuperscript{th} of April 2017 – Workshop: Recent Advances in Tunneling Research**
(Hosted by Prof. Hofstetter, University of Innsbruck – Faculty of Engineering Science)

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<td>14:00 – 14:10</td>
<td>Opening / Prof. Guenther Meschke</td>
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<td>14:10 – 15:30</td>
<td>Session 1 / Chairman: Prof. Yong Yuan</td>
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|             | • Degradation of Cracked Subway Tunnel Structure by Crack Propagation and Leakage Influence Analysis on Subway Tunnel Lining Safety Bring by Defects  
Sun Yan / CCE - Tongji University |
|             | • Numerical Analysis of Tunnel Face Stability  
Allesandra Paternesi / Tech. University Graz |
|             | • Centrifuge Modelling of Parallel Piggy-back Tunnelling in Clay  
Chang Ye Gue / IKC - University of Cambridge |
|             | • Hybrid Concrete Elements with Splitting Fiber Reinforcement under Strip-loading  
Sven Plueckelmann / SFB 837 – RU Bochum |
| 15:30 – 15:50 | Coffee break                                 |
| 15:50 – 17:10 | Session 2 / Chairman: Prof. Markus Thewes    |
|             | • Multi-scale Physical Model of Shield Tunnel Applied in Shaking Table Tests  
Zhen Bao / CCE - Tongji University |
|             | • Ground and Building Response to Urban Tunnelling in Sand  
Stefan Ritter / IKC - University of Cambridge |
|             | • Influencing Factors on Tunneling Induced Building Settlements and Design of Optimal Sensor Locations  
Chenyang Zhao / SFB 837 – RU Bochum |
|             | • Stochastic Analysis of Polymer Composites Failure Modeled by a Phase Field Method  
Jie Wu / CCE - Tongji University |
| 17:10 – 17:30 | Coffee break                                 |
| 17:30 – 18:30 | Session 3 / Chairman: Dr. Mohammed Elshafie  |
|             | • Fibre Optic Monitoring and Modelling of a Deep Excavation Adjacent to Existing Tunnels  
Zili Li / IKC - University College of Cork |
|             | • BIM-to-FEM: Incorporating Numerical Simulations into BIM Concepts with Application to Real Tunneling Projects  
Abdullah Alsahly / SFB 837 – RU Bochum |
|             | • Nonlinear Numerical Simulation for the Mechanical Behavior of Shield Tunnel Linings Strengthened by Epoxy-bonded Filament Wound Profiles  
Zijie Jiang / CCE - Tongji University |
| 18:30       | Closing - Prof. Guenther Meschke             |

Organized by SFB 837, Dipl.-Ing. Joerg Sahlmen