

UM User Meeting 2018

# Program



Pengshan, China

October 18-19, 2018

Computational Mechanics Ltd.

Sichuan Tongshuan Technology Co., Ltd.

## Workshop Program

October 17, 2018, Wednesday, Registration at Lobby of Hengda Hotel		
10:00-22:00	Registration & Check-in	
12:00-13:00	Lunch, Chinese Restaurant of Hengda Hotel	
18:00-19:00	Dinner, Chinese Restaurant of Hengda Hotel	
October 18, 2018, Thursday, Workshop at Mingdu 7-8 Hall of Conference Center		
08:00-09:00	Supplementary registration, outside of the workshop room	
09:00-09:10	Welcome to UM User Meeting 2018	
Session A	Chairman: <b>Bu Jiling</b>	
09:10-09:40 A1	Dynamic response analysis of steel bridge asphalt pavement under vehicle-road coupling 钢桥沥青路面车路耦合动力学响应分析	<i>Chen Enli 陈恩利</i> <i>Shijiazhuang Tiedao University</i>
09:40-10:00 A2	A vehicle-bridge interaction dynamic system analysis method based on inter-system iteration 基于系统间迭代的车辆-道岔耦合动力系统分析方法	<i>Zhang Nan 张楠</i> <i>Beijing Jiaotong University</i>
10:00-10:20 A3	Analysis of vehicle turnout Coupling dynamic characteristics considering wheelset flexibility 考虑轮对柔性的车辆-道岔耦合动力特性分析	<i>Xu Jingmang 徐井芒</i> <i>Southwest Jiaotong University</i>
10:20-10:40	Coffee Break	
Session B	Chairman: <b>Zeng Yong</b>	
10:40-11:10 B1	Recent advances in Universal Mechanism software and finished projects UM 软件仿真新技术与成功案例	<i>Roman Kovalev</i> <i>Bryansk State Technical University, Russia</i>
11:10-11:30 B2	Modeling analysis and vertical characteristics of air springs 空气弹簧建模分析与垂向特性研究	<i>Wang Xiaolei 王晓雷</i> <i>Shijiazhuang Tiedao University</i>

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11:30-11:50 B3	Research on the Influence of Three Kinds of Metro Wheel treads on the Development of Side Rail Grinding 三种地铁车轮镟修踏面对钢轨侧磨的发展影响分析	<i>Liu Yangyu 刘杨煜</i> <i>East China Jiaotong University</i>
12:00-12:10	Group photo, outside of Hengda Hotel	
12:20-13:20	Lunch, Western Restaurant of Hengda Hotel	
Session C	Chairman: <b>Chen Enli</b>	
14:00-14:30 C1	Optimization of Rail Asymmetric Profile 钢轨廓形非对称优化	<i>Wang Jianxi 王建西</i> <i>Shijiazhuang Tiedao University</i>
14:30-15:00 C2	The development and engineering application of vehicle-track-bridge/tunnel vibration reduction products based on UM system analysis platform 基于 UM 系统分析平台的车-线-桥/隧减隔振产品的研发及其工程化应用	<i>Liu Wei 刘韦</i> <i>CRRC Zhuzhou Times New Material Technology Co., Ltd.</i>
15:00-15:20 C3	Vertical Dynamic Simulation of the HTS Maglev Vehicle - Bridge System in Universal Mechanism Software 基于 UM 软件高温超导磁悬浮车桥耦合动力学分析	<i>Wang Hongdi 王洪帝</i> <i>Southwest Jiaotong University</i>
15:20-15:40 C4	Analysis of the influence of wheel wear on the vibration characteristics of track and Bridge on high-speed train 车轮型面磨耗对轨道、桥梁振动特性影响分析	<i>Chang Chao 昌超</i> <i>Southwest Jiaotong University</i>
15:40-16:00	Coffee Break	
Session D	Chairman: <b>Liu Yongqiang</b>	
16:00-16:30 D1	Thailand Customized Train 泰国定制列车	<i>Songsak Suthasupradit</i> <i>Naresuan University, Thailand</i>
16:30-17:00 D2	Analysis of Curve Parameters on High Speed Railway with Meter Gauge 高速米轨铁路曲线参数分析	<i>Zeng Yong 曾勇</i> <i>Southwest Jiaotong University</i>
17:00-17:30	Study on Wheel / Rail Dynamic Characteristics under Compression-shear	<i>Yang Yang 杨阳</i>

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D3	Composite Resilient Wheel 压剪复合弹性车轮作用下轮轨动态特性研究	<i>China Railway Eryuan Engineering Group Co., Ltd.</i>
18:00	Banquet, Chinese Restaurant of Hengda Hotel	
October 19, 2018, Friday, Workshop at Mingdu 7-8 Hall of Conference Center		
Session E	Chairman: <b>Xu Jingmang</b>	
09:00-09:30 E1	Application of fractional-order integration in railway vehicle dynamics 分数阶微积分在车辆多体动力学计算中的应用	<i>Qi Zhuang 戚壮</i> <i>Shijiazhuang Tiedao University</i>
09:30-09:50 E2	Optimization of bogie suspension parameters based on UM - Isight combination 基于 UM-Isight 联合仿真的列车转向架悬挂参数优化	<i>Xu xu 许旭</i> <i>East China Jiaotong University</i>
09:50-10:10 E3	Simulation and Experimental Verification of the Relationship between Actual Running Speed and Ride Comfort of Chengdu Metro Vehicles 成都地铁车辆实际运行速度与乘坐舒适性关系仿真研究及试验验证	<i>Cong Jianli 从建力</i> <i>Southwest Jiaotong University</i>
10:10-10:30	Coffee Break	
Session F	Chairman: <b>Wang Jianxi</b>	
10:30-11:00 F1	Dumper throughput optimisation for heavy haul operations 重载列车翻车机作业过程优化	<i>Amir Shamdani</i> <i>Monash University, Australia</i>
11:00-11:20 F2	A Brief Research Review of Pantograph-Catenary Group in State Key Laboratory of Traction Power 牵引力国家重点实验室弓网团队研究综述	<i>Yao Yongming 姚永明</i> <i>Southwest Jiaotong University</i>
11:20-11:40 F3	The reseach of the influence of reverse curve parameters of heavy haul railway on dynamic response of train 研究重载铁路反向曲线参数对列车动力响应的影响	<i>Zhou Shuang 周爽</i> <i>Beijing Jiaotong University</i>
11:40-12:00	Study on Impact Effect of 25m Double-line Simply Supported Track Beams for	<i>Wang Yapeng 王亚朋</i>

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F4	<p>Medium and Low Speed Maglev          中低速磁悬浮 25m 双线筒支轨道梁的冲击效应研究</p>	<p><i>Sichuan Tongsuan Technology Co. , Ltd.</i></p>
12:20-13:20	<p>Lunch, Western Restaurant of Hengda Hotel</p>	
14:00-17:00	<p>Technical Visit          China Sky Railway</p>	 <p>The image shows a modern maglev train with a white body and blue accents, traveling on a track. The train is viewed from a low angle, emphasizing its sleek design. The background features a cityscape with various buildings under a clear sky, suggesting an urban environment.</p>
18:00-19:00	<p>Dinner, Chinese Restaurant of Hengda Hotel</p>	

Appendix 1.

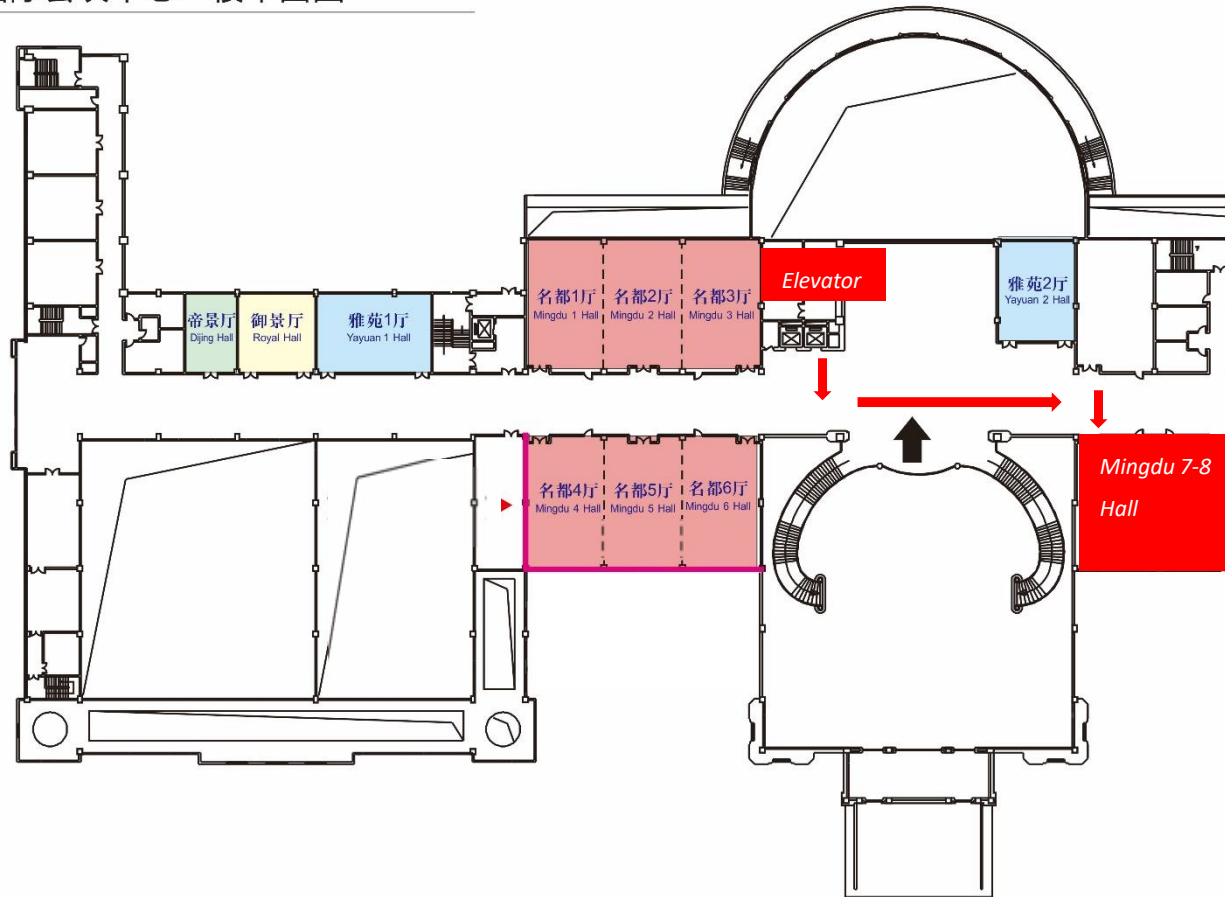




**Appendix 2.**

**Plan of 2<sup>nd</sup> floor of Conference center**

○ 国际会议中心二楼平面图



**Appendix 3.**

**Contact information:**

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