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Preface

It is our great pleasure to host the 10th International Conference on Road and Airfield Pavement Technology (10th ICPT 2017) in The Hong Kong Polytechnic University on 8-10 August 2017. This conference is a longstanding event that brings together road and airport pavement researchers, engineers, and governmental officials to promote pavement technological advancement worldwide. Topics of this conference include, but are not limited to:

- Pavement Design, Evaluation and Performance
- Sustainability in Pavement Engineering
- Pavement Maintenance and Rehabilitation Techniques
- Pavement and Transportation Safety
- Law and Enforcement Related to Pavement Engineering
- Pavement Construction
- Pavement Materials Characterization
- Pavement Management Systems
- Pavement Preservation
- Construction Materials Characterization
- Management Systems
- Preservation

We would like to take this chance to express our grateful appreciation to the sponsors of the conference, including Shell Bitumen, TIPTOP China Limited, Earth Products China Limited (EPC), Anton Paar GmbH, Asphalt Surfaces (International) Limited, Build & Test Technology Limited (B&T), Excel Asphalt Limited, Hong Kong Asphalt (Green) Limited, Jiangsu Provincial Institute of Traffic Science (JSTI), K.Wah Construction Materials (KWCM), Faculty of Construction and Environment (FCE), the Department of Civil and Environmental Engineering (CEE) and Research Institute for Sustainable Urban Development (RISUD) of the Hong Kong Polytechnic University.

We wish you have a great time with us in Hong Kong.

Dr. Zhen Leng
Dr. Yuhong Wang
Co-Chairs, 10th ICPT Organizing Committee
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Virginia Department of Transportation
Louisiana Transportation Research Center
Tongji University
Southeast University
National Cheng Kung University
Case Western Reserve University
Southeast University
Texas A&M Transportation Institute
## Conference Programme

### 08 of August (Tuesday)

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>08:00-08:40</td>
<td>Registration (Floor 3, Jockey Club Innovation Tower, PolyU)</td>
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<tr>
<td>08:40-08:50</td>
<td><strong>Welcome Speech</strong> (Room V322, Floor 3)</td>
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<tr>
<td></td>
<td>Dr. Zhen Leng and Dr. Yuhong Wang, Co-chairs of Organizing Committee of ICPT2017, The Hong Kong Polytechnic University</td>
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<tr>
<td>08:50-08:55</td>
<td><strong>Welcome Speech</strong> (Room V322, Floor 3)</td>
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<td>Prof. You-Lin Xu, Dean of Faculty of Construction and Environment, The Hong Kong Polytechnic University</td>
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<tr>
<td>08:55-09:00</td>
<td><strong>Welcome Speech</strong> (Room V322, Floor 3)</td>
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<td>Prof. Tien Fang Fwa, Chairman of International Executive Committee of ICPT, National University of Singapore</td>
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<tr>
<td>09:00-09:20</td>
<td><strong>Opening Speech</strong> (Room V322, Floor 3)</td>
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<tr>
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<td>Mr. Albert Ho-hoi Liu</td>
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<td><em>Assistant Director/Development, Highways Department, Hong Kong</em></td>
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<td></td>
<td>Speech title: Pavement research in Hong Kong</td>
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<tr>
<td>09:20-10:00</td>
<td><strong>Plenary Keynote Session 1</strong> (Room V322, Floor 3)</td>
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<td>Prof. Dallas Little</td>
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<td><em>Zachry Department of Civil Engineering, Texas A&amp;M University</em></td>
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<tr>
<td></td>
<td>Speech title: Impact of Mechanics and Geo-chemistry on Pavement Performance Analysis</td>
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<tr>
<td>10:00-10:20</td>
<td>Group Photo</td>
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<tr>
<td>10:20-10:50</td>
<td>Coffee Break</td>
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<tr>
<td>10:50-11:30</td>
<td><strong>Plenary Keynote Session 2</strong> (Room V322, Floor 3)</td>
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<tr>
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<td>Prof. Hussain Bahia</td>
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<td><em>Department of Civil &amp; Environmental Engineering, University of Wisconsin-Madison</em></td>
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<td></td>
<td>Speech title: Novel Modifications of Asphalt Binders and Mixtures for Better Investments in Roads and Airfields</td>
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<tr>
<td>11:30-12:10</td>
<td><strong>Plenary Keynote Session 3</strong> (Room V322, Floor 3)</td>
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<td>Session</td>
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<tr>
<td>P23</td>
<td>Laboratory observation and evaluation of asphalt blends of reclaimed asphalt pavement binder with virgin binder using SEM/EDS</td>
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<tr>
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<td>Yanxu Jiang, Xinyu Gu, Zhou Zhou, Xiang Ma</td>
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<tr>
<td>P24</td>
<td>Effectiveness evaluation of different highway asphalt pavement maintenance treatments</td>
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<tr>
<td></td>
<td>Hui Du, Fujian Ni</td>
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<tr>
<td>P25</td>
<td>Abrasion resistance of high volume fly ash concrete as influenced by inclusion of graphene oxide</td>
</tr>
<tr>
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<td>Sen Du, Yan Jiang, Yong Ge and Xianming Shi</td>
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<td>P26</td>
<td>Study on grading design method for recycled aggregate cement stabilized gravel based on rotary compaction</td>
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<td>Xu Cai, Wenke Huang, Kuanghuai Wu, Huayang Yu</td>
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<tr>
<td>P27</td>
<td>Closed-form backcalculation algorithm for Indonesia overlay design procedure</td>
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<td>Bagus Hari Setiadi, Supriyono</td>
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<td>P28</td>
<td>Dynamic prediction model of residual strain in asphalt pavement based on time series analysis</td>
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<tr>
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<td>Jing Chao, Jinxu Zhang</td>
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12:10-13:30 Lunch (Innovation Think Tank, Floor 13, Jockey Club Innovation Tower)
13:30-14:30 Shuttle bus to Tsim Sha Tsui Pier for Technical/Social Tour

14:30-18:30 Technical/Social Tour
- Boat Tour: Tsim Sha Tsui Pier to the Tsing-Ma Bridge, to the Hong Kong Airport Third Runway and Hong Kong Zhuhai Macau Bridge, and back to Tsim Sha Tsui Pier

18:30-20:30 Technical/Social Tour
- Dinner, sightseeing, and watching light symphony show on boat at Victoria Harbour