

## Parallel Sessions on Day 1 (5/11 pm)

### Parallel Session 1A

Integrated Planning I (5 Nov)	
<b>1236</b>	Rethinking Underground: The 10D City Project Tests Methods and Recommendations in the Greater Paris (LABBÉ, Monique)
<b>1246</b>	Three Emblematic Achievements of Paris: the Adaptability of Underground Spaces as a Factor of City Transformation (LABBÉ, Monique)
<b>1248</b>	Master Planning for Cavern Development in Hong Kong: Unlock Hidden Land Resources for Sustainable City Development (WALLACE, Mark)
<b>1200</b>	Updated Guidelines for Cavern Engineering - Geoguide 4: Guide to Cavern Engineering (2nd Edition) (WALLACE, Mark)
<b>1158</b>	Bankable and Investment-Ready Underground Space Developments (ADMIRAAL, Han & CORNARO, Antonia)
<b>1218</b>	Towards Integrated Planning Through Improved Geoscience Knowledge And Use Of The Urban Subsurface – The EU COST Sub-Urban Action (TU1206) (CAMPBELL, Diarmad)

### Parallel Session 1B

Underground Space Applications I (5 Nov)	
<b>1201</b>	Creation of a Subterranean Public Space under a Recreated Headland on Sydney Harbour (O'NEILL, Kenneth Patrick)
<b>1104</b>	Deep Shanghai Project - A Resilient Strategy for Infrastructure Integration (LI, Huanqing)
<b>1153</b>	The Contribution of Underground Development to Slope Safety in Hong Kong (NG, Kwok Choi)
<b>1140</b>	Adaptive Re-use of an Underground Explosive Magazine (MILLIS, Stuart William)
<b>1220</b>	Underground Cemetery Construction in Jerusalem (GLAZER, Arik)
<b>1139</b>	A Sewer Transformed Into a Museum: An Exceptional Achievement in Montréal (POTHIER, Louise)

### Parallel Session 1C

Transportation Network (5 Nov)	
<b>1109</b>	Tokyo Metro Project - Strategies to Reduce Vehicle and Platform Congestion of Tozai Line (KONISHI, Shinji)
<b>1111</b>	Tokyo Metro Ginza Line Renovations (Shitamachi Area) (AKIYAMA, Shuntaro)
<b>1122</b>	Planning, Design and Construction of MTR Cavern Stations for Hong Kong New Railways (KWOK, Derek Chi Lok)
<b>1135</b>	MTR Railway Tunnel Crossings in Hong Kong (SALISBURY, David)
<b>1121</b>	Construction and Operation of Large Underground MTR Stations - Homantin Station, Admiralty Station and West Kowloon Terminus (BEZZANO, Mike)
<b>1223</b>	Hong Kong - SCL 1103 - A Redesign Exercise and the Lessons Learnt (DUDOUIT, Francois)

## Parallel Sessions on Day 2 (6/11 pm)

### Parallel Session 2A

Integrated Planning II (6 Nov)	
1108	A longitudinal study of pedestrian movement at Les Halles, Paris (ZACHARIAS, John Keith)
1154	Improvement of Public Spaces in Central Tokyo Terminal Station Areas Through Public-Private Partnerships: Improvement of Tokyo Station Underground Plaza (YOSHIOKA, Yu)
1151	Opportunities and Challenges of Underground Space Development in Densely Developed Urban Areas (WONG, Jeffrey Chun Fai)
1249	Geosystem and Ecosystem Services – Exploring Opportunities for Inclusion in Urban Underground Space Planning (BOBYLEV, Nikolai)
1229	The potential of underground space renovation in central CBD district on traffic congestion mitigation (WANG, Yupeng)
1127	Underground Space Planning In Urban Built-up Areas: A Case Study Of Qingdao, China (QIAO, Yong-Kang)

### Parallel Session 2B

Design & Construction I (6 Nov)	
1259	Challenging TBM Projects in Difficult Conditions: Large Subsea Tunnel and Long Mountain Tunnel (KO, Tae Young)
1130	Innovative Precast Arch Tunnel System Applied to a Korean Expressway (PLANTIER, Dimitri)
1172	Minimising Disruption Through the Use of a Mega TBM in an Urban Environment - Waterview Connection (IRELAND, Tom)
1164	Precision Analysis and Control of Pipe Roof Jacking Below Urban Expressway: a Case Study of Large Underpass in Shanghai (CHENG, Chihao)
1107	Design Method for Strengthening Underground Steel Concrete Structures With High Performance Textile Reinforced Cement (HAMELIN, Patrice)
1120	Use of Drill-and-blast Method to Construct MTR Caverns and Tunnels for Hong Kong New Railways (SUEN, Brain Wai Yan)

### Parallel Session 2C

Risks and Safety (6 Nov)	
1190	The Study on Evaluation Index System for Safe Operation of Urban Underground Space (QIAO, Yingjuan)
1232	Fire and Smoke Effects to Occupants and Evacuation Procedures in a METRO Station (MAVRIKOS, Athanassios)
1176	Design Challenges of the WestConnex Arncliffe Ventilation Connections (ASCHE, Harry Raoul)
1192	Experimental Study on Staircase Evacuation in Double-layer Tunnel (JIN, Hui)
1254	Research on Optimization Strategies of Public Safety in Urban Underground Commercial Space in Harbin (LI, Yuan)
1124	Inspection Methods for Interior Finish in Tokyo Metro Stations (AOKI, Yoji)

# Parallel Sessions on Day 3 (7/11 am)

## Parallel Session 3A

<b>Integrated Planning III (7 Nov)</b>	
<b>1181</b>	Study on Setting Reserve Protection Layer in Urban Underground Space Planning (FAN, Yiqun)
<b>1113</b>	How to Distinguish Different Uses of the (Urban) Subsurface – a Missing Discourse (VON DER TANN, Loretta)
<b>1157</b>	The Need for Coherent Three-dimensional Planning of Swedish Urban Areas (MOSSMARK, Fredrik)
<b>1204</b>	Study on the Influence Mechanism of Underground Space in the Development of Land Diversity -Taking Shapingba Station as an Example (WU, Yuanyuan)
<b>1227</b>	The Recent Situation and Prospect Analysis of the Development of Urban Underground Space in China (LI, Xiaozhao)
<b>1247</b>	An Integrated Underground Space Use Approach in Core Area of Indian Cities – A Case of George Town in Chennai (SWAMIDURAI, Santhakumar)
<b>1102</b>	The Versatility Approach in the Formation of the Underground Architecture in the Second Pahlavi Era (Case Study: Quran Museum) and Its Utilization Necessity in Sustainable Development of the City of Tehran (SAFAEE, Mohammad Mahdi)

## Parallel Session 3B

<b>Underground Space Applications II (7 Nov)</b>	
<b>1188</b>	The Planning and Construction of Underground Stereo Garage in Muddy Soft Ground: A Case Study of Spc Method in Wenzhou, China (YI, Qiong)
<b>1215</b>	Conceptual Framework for an Advanced Underground Physics Research Laboratory in Hong Kong (ROSS, Stuart)
<b>1250</b>	Exploring Underground Solution for Accommodating Concrete Batching and Asphalt Production Plants (CHAN, Clayton)
<b>1178</b>	Landfill Mining: A Promising Recovery of the Shallow Urban Underground Space (KALIAMPAKOS, Dimitris & MAVRIKOS, Athanassios)
<b>1144</b>	The Defining of the Models for the Infrastructural Installation Planning in Belgrade through the Use of the Integrated Underground Utility Tunnels (ŠIPETIĆ, Nemanja Duško)
<b>1210</b>	Integrated Underground Solutions in Urban Areas - State-of-the-art Applications and Project Examples (REHBOCK-SANDER, Michael)
<b>1149</b>	Study On Planning of New Underground Railway & New Station In The Yaesu-Kyobashi-Nihonbashi District (YOKOTSUKA, Masami)

## Parallel Session 3C

<b>Human Factors &amp; Communication (7 Nov)</b>	
<b>1175</b>	Assessment of Impressions of Underground Spaces Based on Questionnaires Using Virtual Reality Images (TOCHIGI, Akane)
<b>1241</b>	Shall We Have Underground Office Spaces? Underground Workspaces Do Not Affect Office Work's Perception of Workspace and Job Satisfaction (SU, Ying)
<b>1147</b>	Does Knowing You're Underground Affect Your Perception of the Space? (MARIMUTHER, Vicknaeshwari)
<b>1189</b>	Architectural Design, Perception, and Health in Underground Working Environments (TAN, Zheng)
<b>1170</b>	The Educational Potential of Modern Metro Systems (KALIAMPAKOS, Dimitris & MAVRIKOS, Athanassios)
<b>1219</b>	From Conception To Consensus – Importance Of Public Engagement And Its Challenges For Underground Projects (KAN, Marion K W)
<b>1252</b>	Communicating and Promoting Underground Spaces - To Policy Makers, Users and the Public (CHRISTOPOULOS, George)

## Parallel Sessions on Day 3 (7/11 pm)

### Parallel Session 4A

Integrated Planning IV (7 Nov)	
1136	Connecting the Station to the City (MORIYA, Takeshi)
1242	Reconstruction of Regional Underground Space Network and Optimization of Slow Traffic System through Metro Station: A Case Study of Gangxia North Hub of Shenzhen (WANG, Yu)
1187	Study on the Influence Mechanism of Underground Space on the Development of Land Connectivity and Spatial Autocorrelation in Shibuya Station (SHE, Fengxu)
1159	The Integration of the Metropolitan Railways into the Modern City Life (MAVRIKOS, Athanassios)
1245	Experience and Sustainability Indicators of Underground High-speed Railway Passing Urban Areas (ZHU, Wenjun)
1125	Investigation and Consideration on Integrated Development of Metro-led Underground Space: A Case of Metro Line 10 in Shanghai (DONG, Yunhao)

### Parallel Session 4B

Design & Construction II (7 Nov)	
1224	FRP Anchors Used As Temporary Tie-backs In Retaining Walls - Case Study of Doha Metro (HOFMANN, Pierre)
1145	Performance of Soil-nailed Slope Excavation with Seepage Cut-off Wall (LAI, Hoong Ping)
1212	Vulnerability Assessment of Land Subsidence Induced Risk in Shanghai, China (SHEN, Jack Shuilong)
1235	Impacts of Subway Development on Historical Buildings (XIN, Yunxiao)
1106	Strength and Deformability of Deep Foundations Clay Grounds in Underground Structures and High-rise Buildings (MIRSAYAPOV, Ilizar)
1131	Choosing a Calculation Method for Stress-Deformed State of Supports and Lining of Transport Tunnels (LEBEDEV, Mikhail Olegovich)

### Parallel Session 4C

Innovation and Technologies (7 Nov)	
1251	A Customizable, Virtual-Reality-Based, Assessment, Design and Training Tool for Underground Office Spaces (YEAP, You Win)
1202	Characterizing Complex Underground Conditions using Big Data Analytics, Geostatistics and 3D Modeling (MOONEY, Michael Anthony)
1221	Innovative Technologies for Planning and Design of Underground Space Development (LAI, Thomson Man Kit)
1118	Distributed Agency between 3D and 2D Representation of the Subsurface (HOOIMEIJER, Fransje)
1179	Multi-method Infrastructure Planning and Monitoring – Increasing Efficiency by Integrated Planning and Automated Technologies (CHIU, Jessica Ka Yi)
1156	Use iBeacon Technology For Underground and Indoor Positioning (WONG, Man Sing)