Civil Engineering Challenges & Opportunities
土木工程未来二十年的机遇与挑战
for the Next 20 Years

ASCE
美国土木工程师学会
Greater China Conference
大中华区论坛

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2020年5月15日 深圳

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Prof. Xiangsheng Chen 陈湘生, Shenzhen University

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To be updated

ORGANIZATION 会议组织

THEME 大会主题

Since the start of the twenty-first century, civil engineering has been experiencing a deep rooted revolution. Application of scientific computation methods and new technology has been further facilitated by the age of internet and artificial intelligence. BIM and modular construction on the other hand will have tremendous impact on the project construction and implementation. Sustainability, environmental protection and global warming have become the most prominent considerations for design and construction for many large infrastructure projects. ASCE Greater China therefore have invited some of the master minds of Civil Engineering in both industry and academia, who shall share with us their thoughts on the current status and future trends, by which, we are hoping, one shall be able to delineate a blueprint of civil engineering considering the breadth and depth of these master minds. We hope by attending this conference, civil engineering practitioners can benefit from such sharing getting inspirations, resolving their confusions, and get prepared in various perspectives including knowledge, technology, new methods and new patterns. Civil engineers should and could play more leadership roles in the next 20 years.

进入21世纪以来，土木工程领域正在经历一场深远的变革。科学计算和新技术的应用由于互联网和人工智能的到来变得更多便利。BIM模块化建筑正在对项目实施和施工过程产生巨大的影响。可持续发展、环境保护、全球变暖成为工程设计与施工所面临的最突出的挑战与机遇。ASCE大中华区2020年会因此特别邀请了土木工程领域的工业界和学术界的代表人物，给我们分享他们对于现状与趋势的思考。希望通过他们广阔的视角和前瞻性的思维，勾画出土木工程界发展的蓝图。广大从业人员也可以从中获取启发，解决困惑，从知识、技术上和心态上和其他的方面做好准备，通过有的放矢的学习和积累，顺利的面对新技术、新方法和新模式带来的种种挑战。在未来的二十年，土木工程师理应扮演更重要的领导性的角色。
Tentative Program

Day 1:

Morning Session (9:00-12:30)
Welcome address (9:00-9:30)  
Dr. Chao Li and Prof. Xiangsheng Chen, Conference Chairs  
Guest of honors  
Representatives from Shenzhen/HK Government  
Representatives from ASCE Headquarters

Session 1:
9:30-10:55 Prof. Qingquan Li, President, Shenzhen University  
9:55-10:20 Prof. Jin-Guang Teng (President, Hong Kong Polytechnic University; Member, Chinese Academy of Sciences)  
10:20-10:45 Prof. Chu-Han Zhang (Member of Chinese Academy of Sciences, Tsinghua University)  
Group Photo and Coffee Break (10:45-11:05)

Session 2:
11:05-11:30 Prof. Feng Jin (Changjiang Chair Professor, Tsinghua University)  
11:30-11:55 Prof. Joseph H.W. Lee (President, International Association for Hydro-environment Engineering and Research, Fellow of Royal Academy of Engineering, Former Vice President of HKUST)  
11:55-12:20 Prof. Li-Zhong Wang (Vice President, Zhejiang University)  
Award Presentation: ASCE Greater China Leadership Award  
Lunch break (12:30-14:00)

Afternoon Session (14:00-18:00)

Session 3:
14:00-14:25 Prof. Yeong-Bin Yang (Professor Emeritus, National University of Taiwan, Honorary Dean of Colleague of Civil Engineering, Chongqing University, Member of Chinese Academy of Engineering)  
14:25-14:50 Prof. Xilian Li (Member of Chinese Academy of Engineering, Tongji University)  
14:50-15:15 Ka-Veng Yuen, Kelvin (Distinguished Professor, Dean of Graduate School, University of Macau)  
Coffee Break (15:15-15:30)

Session 4:
15:30-15:55 Prof. Jun Yang (University of Hong Kong)  
16:55-16:20 Representative from Arup Taiwan  
16:20-16:45 Research Team from Prof. Xiangsheng Chen (Member of Chinese Academy of Engineering, Shenzhen University)  
Coffee Break (16:45-17:00)

Session 5:
17:00-17:40 Panel Discussion “Civil Engineering for the Next 20 Years”  
Jack Cheng, President of ASCE Greater China (moderator)  
Raymond Leung, ASCE Region 10 Director  
Guest speakers/industry/government leaders  
Closing Ceremony (17:40-18:00)  
Award Presentation  
ASCE Greater China Outstanding Young Researchers Award  
ASCE Greater China Outstanding Student Chapters Award  
Concluding remarks  
Dr. Chao Li, Prof. Xiangsheng Chen  
ASCE President

Dinner (18:30-20:30)

Day 2:

Technical visit to Shenzhen-Zhongshan Corridor (tentative)  
Discussion with ASCE Greater China Student Chapters