

October 18, morning, Session 1

Theme	
Sustainable and Resilient Urban Infrastructure Planning and Design	
08:30-08:35	Opening Remarks: SHAO Yisheng, Secretary of the Party Committee and Vice President of CAUPD 中方致辞:邵益生 中国城市规划设计研究院党委书记兼副院长
08:35-08:40	Opening Remarks: Steve Foran, Jacobs Engineering 外方致辞: Steve Foran, 美国雅各布工程公司
Co-chair/moderator: SHAO Yisheng, 邵益生	
08:40-09:00	Keynote: Integrated Systems Thinking for Urban Infrastructure Planning and Development Steve Foran, Jacobs Engineering 主旨发言: 城市基础设施规划和发展的综合系统性思考 Steve Foran, 美国雅各布工程公司
09:00-09:20	Keynote: Non-stationarity: The New Normal Michael Sanio, Director of Sustainability/International Alliances at the American Society of Civil Engineers 主旨发言: 非稳态城市设计和建设理论: 新常态 Michael Sanio, 美国土木工程协会可持续国际联盟主任
09:20-09:40	Keynote: Cities- Can they meet our needs? Fergal Whyte, Arup 主旨发言: 城市能否满足我们的需求 Fergal Whyte, 英国奥雅纳工程顾问公司
09:40-09:55	A Geodesign Model of Human-energy-water Interactive Systems for Urban Infrastructure Design 人-能源-水交互的城市基础设施地理设计模型 <i>Perry Pei-Ju Yang, Yihan Wu and Steven Jige Quan</i> <i>Georgia Institute of Technology, Tongji University</i> 美国乔治亚理工大学, 中国同济大学
09:55- 10:10	Study on the comprehensive urban design in mountainous middle and small-sized cities under the concept of sustainable development –A Case Study of Tongliang Comprehensive Urban Design 可持续发展理念下的山地中小城市综合城市设计研究——以铜梁市城市综合设计为例 <i>ZHOU Lingji, CHEN Tian</i> <i>Tianjin University</i> 天津大学
10:10 - 10:25	Is Structural Engineering Sustainable? 结构工程是否可持续? <i>Lawrence C. Bank</i> <i>City College of New York</i> 纽约城市学院
10 min break	
Co-chair/moderator: Steve Foran	
10:35-10:55	Keynote: Brownfield Redevelopment in Cities of China: Challenges, Sustainability and Policy Implications LI Fasheng, Chief Engineer of CRAES 主旨发言: 中国城市污染场地再开发: 问题、可持续性 & 政策意义 李发生, 中国环境科学研究院总工程师
10:55-11:15	Keynote: Metro Construction and Urban Space CHEN Xiangsheng, Chief Engineer of Shenzhen Metro 主旨发言: 地铁与城市 陈湘生, 深圳地铁集团总工程师
11:15-11:35	Keynote: Research and engineering application of constructed wetlands in China—in case of Shenzhen WU Zhenbin, Director of Water Environmental Engineering, Institute of Hydrobiology, CAS 主旨发言: 中国人工湿地研究与工程应用—以深圳为例 吴振斌, 中国科学院水生生物研究所水环境工程研究中心主任
11:35-11:50	Towards resilient and sustainable floodplains 弹性和持续的冲积平原 <i>Lawrence H. Roth and Jessica J. Ludy</i> <i>Arcadis Inc.</i>

11:50-12:05	<p>Towards a resilient neighborhood examining the role of Transit Oriented Development (TOD) and on-site solar potential 公交导向发展和太阳能在弹性社区设计中的应用 <i>Shahaboddin (Sean) H. Toroghi, Baabak Ashuri, Subhrajit Guhathakurta, and Nancey Green Leigh</i> <i>Georgia Institute of Technology</i> 佐治亚理工大学</p>
12:05-12:20	<p>Integrated Urban Transport System: a solution for sustainable city 综合城市交通系统：可持续城市的解决办法 <i>Dong LIU</i> <i>University of Copenhagen</i> 哥本哈根大学</p>
12:20-12:35	<p>Modern TRAM, the light railway vehicle, VLT structural axis of the sustainable development of the city of Petrópolis - RJ, Brazil 巴西 Petrópolis 市现代有轨电车、轻轨车辆和 VLT 结构轴线构成的可持续发展 <i>Flavia D. Carvalho, Claudio Maxminiano, Manoela Silva, Fernando Mac Dowell and Hugo M. V. Repolho</i> <i>Pontificia Universidade Católica do Rio de Janeiro</i> 巴西里约热内卢天主教大学</p>
12:30-14:00	<p>Lunch Ceremonial Hand-off to Norma-Jean Mattei (ASCE President-Elect, ICSI 2017) from John C Crittenden (on behalf of ICSI 2016) 午饭 ICSI 会议交接仪式</p>

October 18, morning, Session 2

Theme	Adaptation to Climate Change
08:30-08:35	Opening Remarks: DING Yihui, Special Advisor of China Meteorological Administration 中方致辞: 丁一汇, 中国气象局气候变化特别顾问
08:35-08:40	Opening Remarks: David A Dzombak, Carnegie Mellon University 外方致辞: David A Dzombak, 卡耐基梅隆大学
Co-chair/moderator: DING Yihui, 丁一汇	
08:40-09:00	Keynote: Climate Change Adaptation for Infrastructure: A Grand Challenge for Civil and Environmental Engineering David A. Dzombak and Constantine Samaras 主旨发言: 基础设施的气候变化适应性: 对土木和环境工程的巨大挑战 美国卡耐基梅隆大学 Carnegie Mellon University
09:00-09:20	Keynote: Anticipating the Technologies that will drive the Fourth Revolution in Urban Water David L. Sedlak, Prof. of University of California, Berkeley 对驱动第四次城市水革命的技术展望 David L. Sedlak, 美国加利福尼亚大学伯克利分校教授
09:20-09:40	Urban Infrastructure Transitions toward Sustainable Healthy Cities: Examples from US, China & India <i>Anu Ramaswamsi, University of Minnesota-Twin Cities</i>
09:40-09:55	Assessment of the Chinese urban sector adaptation technologies to climate change 中国城市适应气候变化的技术评价 <i>Zhanyun Ma, Wei Huang, Qingxian Gao, Wei Song, Jinghao Liu</i> <i>Chinese Research Academy of Environmental Sciences</i> 中国环境科学研究院
09:55- 10:10	Ensuring Reliability in Coupled Power and Water Systems Under Increasing Temperatures <i>Mikhail Chester,</i> <i>Arizona State University</i>
10:10 - 10:25	Cutting carbon cuts use of resources and costs: how low whole life carbon reduction creates efficiencies and unleashes innovation in civil engineering 削减资源、成本使用, 削减碳排放: 低程度的全周期碳削减如何创造效率释放土木工程创新 <i>Davide Stronati,</i> <i>Mott MacDonald Limited</i> 英国莫特·麦克唐纳公司
10 min break	
Co-chair/moderator: David A Dzombak	
10:35-10:55	Keynote: Air pollution and climate change connections and opportunities for sustainable development. Gregory R. Carmichael, University of Iowa 主旨发言: 空气污染与气候变化的关系及可持续发展的机遇 Gregory R. Carmichael, 美国爱荷华大学
10:55-11:15	Keynote: Atmospheric ozone pollution control and regional air quality improvement ZHANG Yuanhang, Former President of College of Environmental Sciences and Engineering, Peking University 主旨发言: 大气臭氧污染防治与区域空气质量改善 张远航, 原北京大学环境科学与工程学院院长
11:15-11:35	Keynote: Novel Anticorrosion Technologies and their Application HOU Baorong, Researcher of Institute of Oceanology, CAS 主旨发言: 新型腐蚀防护技术及应用 侯保荣, 中国科学院海洋研究所研究员
11:35-11:50	The assessment report for climate change in cities (ARC3-2) urban planning and design 城市规划设计和气候变化的评估报告 (ARC3-2) <i>Jeffrey Raven, et. al.,</i> <i>New York Institute of Technology</i> 纽约理工大学
11:50-12:05	Embracing sustainable infrastructure development and environmental stewardship through a code of practice for engineers

	<p>工程师的实践守则推动可持续的基础设施发展和环境管理 <i>Darrel J. Danyluk and David Lapp,</i> <i>Engineers Canada</i> 加拿大工程师协会</p>
12:05-12:20	<p>Implications of climate change on service life and durability due to carbonation of concrete structures 气候变化对混凝土结构碳化的使用寿命和耐久性的影响 <i>S.O Ekolu</i> <i>University of Johannesburg</i> 南非约翰尼斯堡大学</p>
12:20-12:35	<p>Climate extremes and the resilience of natural and engineered infrastructure networks 极端气候与自然和工程基础设施网络的弹性 <i>Udit Bhatia</i> <i>Northeastern University</i> 美国东北大学</p>
12:30-14:00	<p>Lunch Ceremonial Hand-off to Norma-Jean Mattei (ASCE President-Elect, ICSI 2017) from John C Crittenden (on behalf of ICSI 2016) 午饭 ICSI 会议交接仪式</p>

October 18, morning, Session 3

Theme	Sustainable Waste, Energy, Water and Resource Management
08:30-08:35	Opening Remarks: MENG Wei, President of CRAES 中方致辞: 孟伟, 中国环境科学研究院院长
08:35-08:40	Opening Remarks: Menachem Elimelech, Yale University 外方致辞: Menachem Elimelech, 耶鲁大学
Co-chair/moderator: Meng Wei, 孟伟	
08:40-09:00	Keynote: Membrane-Based Technologies at the Water-Energy Nexus Menachem Elimelech, Prof. of Yale University 主旨发言: 膜技术解决水和能源互相依赖关系 Menachem Elimelech, 美国耶鲁大学教授
09:00-09:20	Keynote: Mining the cities for win-win benefits of economy and environment QIAN Yi, Prof. of School of Environment, Tsinghua University 大力开发城市矿山, 争取经济环境双赢 钱易, 清华大学环境学院教授
09:20-09:40	Keynote: Transforming to Natural Gas Electricity and Chemical Manufacturing Infrastructures and its Impacts David Allen, Prof. of University of Texas at Austin 主旨发言: 天然气发电和化工制造基础设施转型和影响 David Allen, 美国德克萨斯大学奥斯汀分校教授
09:40-09:55	Business case for sustainable development of chemical industry cluster region 化工集群区域可持续发展的商业案例 WANG Pan <i>Chinese Research Academy of Environmental Sciences</i> 中国环境科学研究院
09:55- 10:10	The transition experiences of Germany's Ruhr Industrial Area for revitalization of old industrial bases in our country 德国鲁尔工业区的转型经验对中国的老工业基地振兴的启示 Yue ZHANG, Qi QIAO <i>Chinese Research Academy of Environmental Sciences</i> 中国环境科学研究院
10:10 - 10:25	Promoting cleaner production in commercial retail of the tertiary industry in urban cities of China 在中国城市促进第三产业的商业零售业清洁生产 Zheng Liu, Zixiu Li, Fan Wang <i>Chinese Research Academy of Environmental Sciences</i> 中国环境科学研究院
10 min break	
Co-chair/moderator: Menachem Elimelech	
10:35-10:55	Keynote: Nanotechnology-Enabled Water Treatment: A Vision to Enable Decentralized Water Treatment and Reuse to Alleviate Challenges of the Energy-Water Nexus Pedro J. J. Alvarez, Prof. of Rice University 主旨发言: 基于纳米科技的水处理: 致力于缓解水资源和能源之间依赖关系的分散式水处理和回用技术远景 Pedro J. J. Alvarez, 美国莱斯大学教授
10:55-11:15	Keynote: Perspective of Food Energy and Water Nexus in Urban Area Yongsheng Chen, Georgia Institute of Technology 主旨发言: 城市区域内食物能源和水之间关系的见解 Yongsheng Chen, 美国乔治亚州理工大学教授
11:15-11:35	Keynote: Sustainable Waste Management Reinhard Büchl, General Manager Büchl Group 主旨发言: 可持续废弃物管理 莱因哈德 比歇尔, BÜCHL 废弃物管理集团 总经理
11:35-11:50	Research and development of lignin derived oxygenate as alternative fuels for compression-ignition engines

	<p>木质素氧化物作为压缩点火发动机替代燃料的研究与开发 <i>Lei Zhou, M.D. Boot, L.P.H. De Goey</i> <i>Harbin Institute of Technology (HIT) Shenzhen</i> 哈尔滨工业大学深圳研究生院</p>
11:50-12:05	<p>Making hydropower sustainable 水力发电的可持续发展 <i>Dan Millison</i> <i>Transcendergy, L.L.C.</i></p>
12:05-12:20	<p>An ecological based mass flow analysis to model the progress of steel manufacturing in China 生态流量分析模型用于模拟中国钢铁制造业的发展 <i>Stephen Malone, Bert Bras, Marc Weissburg</i> <i>Georgia Institute of Technology</i> 美国乔治亚理工大学</p>
12:30-14:00	<p>Lunch Ceremonial Hand-off to Norma-Jean Mattei (ASCE President-Elect, ICSI 2017) from John C Crittenden (on behalf of ICSI 2016) 午饭 ICSI 会议交接仪式</p>

October 18, afternoon, Session 4

Theme	Urban Informatics, Smart Cities, and Big Data Techniques
14:00-14:05	Opening Remarks: Co-Chair, China 中方致辞：待定
14:05-14:10	Opening Remarks: John C Crittenden, Georgia Institute of Technology 外方致辞: John Crittenden, 佐治亚理工大学
Co-chair/moderator: Co-Chair, China	
14:10-14:30	Keynote: Buried Water Infrastructure - Condition Assessment Using Data Mining Edward Mcbean, Canada Research Chair in Water Supply Security 主旨发言：地下埋藏的水利基础-基于数据挖掘的状态评估 Edward Mcbean, 加拿大水供给安全研究主席
14:30-14:50	Keynote: The Problems and Solutions for Urban Planning GUO Renzhong, Inspector of Urban, Planning, Land & Resource Commission of Shenzhen Municipality 主旨发言：城市规划的问题与对策 郭仁忠, 深圳市规划和国土资源委员会巡视员
14:50-15:05	City-scale infrastructure health monitoring by wide-range video camera sensing and novel computer vision 城市规模基础设施健康监测：大范围视频摄像机传感和新的计算机视觉 <i>Yongchao Yang, Charles Farrar, David Mascarenas</i> <i>Los Alamos National Laboratory</i> 美国洛斯阿拉莫斯国家实验室
15:05-15:20	Using geo-tagging and text mining to understand infrastructure resiliency and sustainability 使用地理标记和文本挖掘了解基础设施的灵活性和可持续性 <i>Wai Oswald Chong, HariHaran Naganathan, Huan Liu, Joonhoon Kim, and Samuel Ariaratnam</i> <i>Arizona State University</i> 亚利桑那州立大学
15:20-15:35	A bibliometrics analysis on sustainability and resilience of urban infrastructure 城市基础设施可持续发展和弹性的文献计量分析 <i>Guozhu Mao and Shuai Wang</i> <i>Tianjin University</i> 天津大学
15:35-15:50	Application of big data technology in urban environmental management 大数据技术在城市环境管理中的应用 <i>Fang Li, Wang Hui, Wang Yong, Chen Min, Hua Jie</i> <i>Chinese Research Academy of Environmental Sciences</i> 中国环境科学研究院
10 min break	
Co-chair/moderator: John Crittenden	
16:00-16:20	Keynote: Keynote: Urban Transportation System: Alleviate Crowd Traffic and Sustainable Development WANG Wei, President of School of Transportation, Southeast University 主旨发言：城市交通系统：缓解拥堵与可持续发展 王炜, 东南大学交通学院院长
16:20-16:40	Keynote: Environmental Implications of New Mobility Ming Xu, Prof. University of Michigan 主旨发言: 现代交通出行的环境启示 徐明, 美国密歇根大学教授
16:40-16:55	Estimation of the travelers information apps' impact 出行信息应用的影响评估 <i>Mingwei Hu, Wenke Huang, Yun Chen, Jiasi Cai</i> <i>Shenzhen University</i> 深圳大学
16:55-17:10	Evaluating the effects of alleviating urban traffic congestion using travelers information apps on mobile devices 基于出行信息应用的移动设备缓解城市交通拥堵的效果评价 <i>Mingwei Hu and Wenke Huan</i>

	<p><i>Shenzhen University</i> 深圳大学</p>
17:10-17:25	<p>Using the envision rating system as a decision framework for wastewater infrastructure projects 使用 ENVISION 评价系统作为污水处理基础设施的决策模型 <i>Erika Jozwiak, Dennis Stanford</i> <i>New York City Department of Environmental Protection Bureau of Engineering</i> 纽约环境保护局</p>
17:25-17:40	<p>Characterizing the building and infrastructure stocks of cities: A case study of a Danish fairytale city 表征城市的建筑和基建存量：以一个丹麦童话市为例 <i>Gang Liu</i> <i>University of Southern Denmark</i> 挪威科技大学生物与环境科技</p>
17:40-17:55	<p>GIS-based evaluation of environmental sensitivity for an urban expressway in Shenzhen, China 基于 GIS 的中国深圳城市高速公路生态环境敏感性评价 <i>Qian Li, Fengqing Guo, Yuntao Guan</i> <i>Tsinghua University</i> 清华大学</p>
18:00-19:00	Poster Session (Beer and Wine served from 17:30 onwards)

October 18, afternoon, Session 5

Theme	Sustainability and Resilience Assessment Methods and Tools
14:00-14:05	Opening Remarks: CHAI Fahe, Vice President of CRAES 中方致辞：柴发合，中国环境科学研究院副院长
14:05-14:10	Opening Remarks: Samuel T Ariaratnam, Arizona State University 外方致辞：Samuel T Ariaratnam, 亚利桑那州立大学
Co-chair/moderator: Co-Chair, China	
14:10-14:30	Keynote: Advances in Green Infrastructure Modeling for Planning Sustainable Cities Paul F. Boulos, Innovyze 主旨发言：用于可持续城市规划的绿色基础设施模型分析前沿 Paul F. Boulos, Innovyze 公司
14:30-14:50	Keynote: Delivering Sustainable Pipeline Infrastructure: Technological Advancements in Installation and Renewal Methods Samuel T Ariaratnam, Arizona State University 主旨发言：可持续管网基础设施的科学布设及创新方法 Samuel T Ariaratnam, 美国亚利桑那州立大学
14:50-15:10	Keynote: Ability Construction for Urban Air Pollution Control CHAI Fahe, Vice President of CRAES 主旨发言：城市大气污染控制能力建设 柴发合，中国环境科学研究院副院长
15:10-15:25	Urban level life-cycle assessment and the environmental impacts at neighborhoods with different socioeconomic level in Atlanta, GA 美国亚特兰大城市尺度的生命周期分析和不同社会经济的社区环境影响 <i>Shahaboddin Hashemi Toroghi, Arezoo Shirazi, Baabak Ashuri</i> <i>Georgia Institute of Technology</i> 佐治亚理工大学
15:25-15:40	Indicators of social sustainability in mass housing construction 大规模房屋建造的社会可持续指标体系 <i>Ali Karji, Mostafa Khanzadi, Asregedew Woldeesenbet</i> <i>University of Nebraska-Lincoln</i> 美国内布拉斯加大学林肯分校
20 min break	
Co-chair/moderator: Samuel T Ariaratnam	
16:00-16:20	Keynote: Experiences of using biogas as renewable fuel for transportation in Sweden and possibilities in China Osten Ekengren, Vice President of IVL Swedish Environment Research Institute Ltd 主旨发言：沼气作为可再生燃料在瑞典交通运输中的应用经验以及在中国实现的可能 Osten Ekengren, 瑞典环科院副院长
16:20-16:40	Keynote: Innovation and creative practice of major cultural facilities in cities HE Jingtang, President of School of Architecture and School of Design, SCUT 主旨发言：城市重大文化设施工程创新与创作实践 何镜堂, 华南理工大学建筑学院兼设计院院长
16:40-16:55	Project-based sustainability rating tool for pavement maintenance 基于项目的路面养护可持续性评价工具 <i>Yibo Zhang, J. P. Mohsen</i> <i>University of Louisville</i> 路易斯维尔大学
16:55-17:10	Non-destructive evaluation of waterline condition assessment for sustainable pipeline management 可持续的管道管理中水线状态评估的非破坏性评估 <i>John Matthews, Samuel Ariaratnam</i> <i>Pure Technologies Ltd.; Arizona State University</i> Pure Technologies 公司；亚利桑那州立大学
17:10-17:25	LCA, energy and economy integrated method to evaluate the conceptual wastewater treatment processes

	<p>生命周期分析、能值和经济综合评价的方法评估概念性污水处理工艺 <i>QIU Yong, LI Bing, ZHANG Chi, LIANG Peng, HUANG Xia</i> <i>Tsinghua University</i> 清华大学</p>
17:25-17:40	<p>Life cycle cost assessment of durable repair of concrete structures based on environmental costs 基于环境成本的混凝土结构耐久性修复生命周期成本评价 <i>Xuming Mi, Feng Xing, Ningxu Han</i> <i>Shenzhen University</i> 深圳大学</p>
17:40-17:55	<p>The status and countermeasures on motor vehicle emission in Shenzhen 深圳市机动车排放现状及对策 <i>Mingwei Hu , Suyun Zhai , Yun Chen</i> <i>Shenzhen University</i> 深圳大学</p>
18:00-19:00	Poster Session (Beer and Wine served from 17:30 onwards)

October 18, afternoon, Session 6

Theme	Sponge City in China and Storm Water Management
14:00-14:05	Opening Remarks: QU Jiuhui, Former Director of ECEES, CAS 中方致辞：曲久辉，原中国科学院生态环境研究中心主任
14:05-14:10	Opening Remarks: Cliff I Davidson, Syracuse University 外方致辞: Cliff Davidson, 雪城大学
Co-chair/moderator: Co-Chair, China	
14:10-14:30	Keynote: The key issues of sustainable urban water supply system QU Jiuhui, Former Director of ECEES, CAS 主旨发言：可持续城市供水系统构建的关键问题 曲久辉，原中国科学院生态环境研究中心主任
14:30-14:50	Keynote: Concept for Sponge City Construction in China REN Nanqi, Vice President of Harbin Institute of Technology 主旨发言：中国海绵城市建设理念 任南琪，哈尔滨工业大学副校长
14:50-15:05	Sponge city planning and operative technology assessment 海绵城市规划和营运技术的评估 <i>Jing Hu, Qingxian Gao, Zhanyun Ma, Wei Song, Jinghao Liu</i> <i>Chinese Research Academy of Environmental Sciences</i> 中国环境科学研究院
15:05-15:20	Problems of rainwater utilization on the advancing process of sponge city in China 中国海绵城市先进工艺中雨水利用的问题 <i>Yanyan Fang, Zhiqiang Nie, Qingqi Die, Qifei Huang</i> <i>Chinese Research Academy of Environmental Sciences; Beijing Normal University</i> 中国环境科学研究院；北京师范大学
15:20-15:35	A study on understanding the concept of sponge city 海绵城市概念的理解 <i>Rafiur Rahman</i> <i>World University Of Bangladesh</i> 孟加拉世界大学
15:35-15:50	Regeneration planning method of urban rivers in the Pearl River Delta based on the multi-level sponge-city framework 基于多层次海绵城市框架的珠江三角洲城市河道更新规划方法 <i>Gianni Talamini</i> <i>Harbin Institute of Technology Shenzhen Graduate School</i> 哈尔滨工程学院深圳研究生分院
10 min break	
Co-chair/moderator: Cliff I Davison	
16:00-16:20	Keynote: Flood Control and Drainage on the Basin and Urban under Rapid Urbanization WANG Yintang, Director of Hydrology and Water Resource Department, Nanjing Hydraulic Research Institute 快速城镇化背景下流域与城市防洪排涝问题 王银堂，南京水利科学研究院水及水资源研究所所长
16:20-16:40	Keynote: Measuring the Performance of Green Roofs Cliff I Davidson, Prof. of Syracuse University 主旨发言：绿色屋顶的性能检测 Cliff I Davison, 美国雪城大学教授
16:40-16:55	Research on evaluation system and application of sponge city 海绵城市的评级系统和应用研究 <i>Feng Wang, Yuntao Guan</i> <i>Tsinghua University</i> 清华大学
16:55-17:10	Effectiveness assessment of restoring hydrological cycle by low impact development for an urban watershed in semi-arid climate in North China 低影响开发对于修复华北地区半干旱气候的城市流域水文循环的效果评价

	<p><i>LI YU</i> <i>Kyoto University</i> 日本京都大学</p>
17:10-17:25	<p>Overall framework of objective systems for development of sponge cities in Yangtze River Delta Region 长江三角洲地区海绵城市发展目标体系的总体框架 <i>Dafang Fu, Tony Wong, Zhengzhao Li, Jianbing Wang, Rajendra Prasad Singh</i> <i>Southeast University</i> 东南大学</p>
17:25-17:40	<p>Impact of low impact development technologies from an ecological perspective in different residential zones for the City of Atlanta, Georgia 低影响开发技术对亚特兰大市不同居住区的生态环境影响 <i>Zackery B. Morris, Stephen M. Malone, Abigail R. Cohen, Marc J. Weissburg, Bert Bras</i> <i>Georgia Institute of Technology</i> 佐治亚理工大学</p>
17:40-17:55	<p>The role of decentralization in sustainable and resilient urban water systems 分散式对于可持续和弹性城市水系统的作用 <i>Nancey Green Leigh and Heonyeong Lee</i> <i>Georgia Institute of Technology</i> 佐治亚理工大学</p>
18:00-19:00	<p>Poster Session (Beer and Wine served from 17:30 onwards)</p>

October 19, morning, Session 7

Theme	Sustainable Design, Construction & Management
08:30-08:35	Opening Remarks: TBD, Recommended by WANG Hao 中方致辞: 待定, 王浩推荐
08:35-08:40	Opening Remarks: David R Maidment, University of Texas Austin 外方致辞: David R Maidment, 德州大学奥斯汀分校
Co-chair/moderator 分论坛主席/主持人: TBD, 待定	
08:40-09:00	Keynote: Urban Design and Intelligent Assistant WU Zhiqiang, Vice President of Tongji University 主旨发言: 城市规划与智能辅助 吴志强, 同济大学副校长
09:00-09:20	Keynote: GIS and Sustainable Water Management David R Maidment, Prof. of University of Texas at Austin 主旨发言: 地理信息系统与可持续水管理 David R Maidment, 美国德克萨斯大学奥斯汀分校教授
09:20-09:40	Keynote: Seawater Supply and SANI Technology, a Successful Story of Hong Kong CHEN Guanghao, Prof. of Hong Kong University of Science and Technology 主旨发言: 海水供给与 SANI 技术: 香港的成功案例 陈光浩, 香港科技大学教授
09:40-09:45	Carbon emissions of infrastructure development 基础设施建设的碳排放 Gang Liu, Daniel B. Müller University of Southern Denmark; Norwegian University of Science and Technology 南丹麦大学; 挪威科学技术大学
09:55-10:10	Sustainable construction in the USA: current perspectives and opportunities 美国可持续建造行业: 现状和机遇 Gouranga Banik Oklahoma State University 美国俄克拉荷马州立大学
10:10-10:25	Sustainable urbanization under China emission trading scheme 在中国排放交易机制下的可持续城镇化 Emma W.T. Zhou Hong Kong Baptist University 香港浸会大学
10:25-10:40	A systematic strategy towards eco-friendly and corrosion-resistant concrete infrastructure 一个生态友好型和耐腐蚀性混凝土基础设施的系统策略 Zhengxian Yang, Xianming Shi Washington State University 美国华盛顿州立大学
10 min break	
Co-chair/moderator: David R Maidment	
10:50-11:10	Keynote: Shenzhen Sludge Treatment and Recycling Routes ZHANG Jinsong, Chief Engineer of Shenzhen Water Group 主旨发言 深圳污泥处理与资源化路径 张金松, 深圳市水务(集团)有限公司总工程师
11:10-11:30	Keynote: TBD WU Yegang, Chief Ecologist, American Ecological Engineering 主旨发言: 题目待定 伍业钢, 美国生态工程公司主任生态学家
11:40-11:55	Pavement-vehicle interaction (PVI) and comparative highway fuel consumption 路面车辆互动和公路燃油消耗的比较 Xin Jiao, Michael Bienvenu Florida International University

	美国佛罗里达国际大学
11:55-12:10	Design of concrete gravity quay walls British Standards vs. Eurocode 混凝土重力式码头设计：英国标准 vs 欧盟标准 <i>Hazem Sarhan, Fatemeh Riazi</i> <i>Sogreah - Artelia</i>
12:10-12:25	Analysis of heavy metals in roof dust in mixed urban catchment 城市混合流域屋顶灰中重金属分析 <i>Dunzhu Li, An Liu, Siyuan Li, Bo Zhao, Yuntao Guan</i> <i>Tsinghua University</i> 清华大学
12:30-13:30	<p>午餐/Luncheon</p> <p>30 分钟主旨演讲, 12:30 点开始/30 minutes plenary talk starting at 12:30 pm</p> <p>题目：待定</p> <p>Title: The Funding and the Financing of Sustainable Infrastructure</p> <p>Jordan Schwartz 世界银行，新加坡基础设施和城市发展项目中心主任 Director, Singapore Infrastructure & Urban Development Hub The World Bank</p> <p>Announcement of the Best Paper Award</p> <p>最佳论文奖颁布</p> <p>Closing Ceremony</p> <p>闭幕仪式</p>

October 19, morning, Session 8

Theme	Financing the Infrastructures
08:30-08:35	Opening Remarks: HE Kebin , President of School of Environment, Tsinghua 中方致辞: 贺克斌 , 清华大学环境学院院长
08:35-08:40	Opening Remarks: Hans-Peter Egler, Global Infrastructure Basel 外方致辞 : Hans-Peter Egler, Global Infrastructure Basel
Co-chair/moderator: He Kebin, 贺克斌	
08:40-09:00	Keynote: International Experience and Chinese Practice on Environmental protection Infrastructure Investment and Financing Steve Clark, Suez Asia 主旨发言: 环境保护基础设施投资融资国际经验与中国实践 Steve Clark, 苏伊士亚洲投资有限公司
09:00-09:20	Keynote: Principles for Allocation of Control Rights in a PPP Project WANG Shouqing, Vice President of Institute of International Engineering Project Management, Tsinghua University 主旨发言: PPP 项目的控制权配置原则 王守清 , 清华大学国际工程项目管理研究院副院长
09:20-09:40	Keynote: Construction and innovation of Shenzhen payment environment WANG Tao, Senior Advisor of Bank Service Department, China Union Pay 主旨发言 : 深圳支付环境的建设与创新 汪涛, 中国银联股份有限公司银行服务部资深高级顾问
09:40-09:45	How to be good and sustainable infrastructure for ASEAN 何为东盟所要的优质可持续发展的基础设施 <i>Apirada Chinprateep</i> <i>University of Minnesota</i> 美国明尼苏达州大学
09:55-10:10	Financing green buildings at scale 绿色建筑规模融资 <i>Dan Millison</i> <i>Transcendergy, LLC</i>
10:10-10:25	Create long-term values of urbanisation through sustainable and resilient infrastructure 通过可持续的城市化和弹性的基础设施创造长期价值 <i>Hans-Peter Egler, Raul Frazao</i> <i>The Global Infrastructure Basel Foundation (GIB)</i> 全球基础设施瑞士巴塞尔基金会
10:25-10:40	Financing change: How to mobilize private-sector investment in sustainable infrastructure 融资变化 : 如何动员民间投资可持续基础设施 <i>Aaron Bielenberg, Mike Kerlin, Jeremy Oppenheim and Melissa Roberts</i> <i>McKinsey & Company</i> 麦肯锡公司
10 min break	
Co-chair/moderator:Hans-Peter Egler	
10:50-11:10	Keynote: BSF Solution: Make Sustainable Development for Cities ZHENG Daqing, Vice President of BSF 主旨发言: 巴斯夫解决方案 : 让城市可持续发展 郑大庆 , 巴斯夫副总裁
11:10-11:30	Keynote: Infrastructure Construction and Value Promotion LIU Yongzheng, General Manager of Beijing Capital Co. 主旨发言: 基础设施建设与价值提升 刘永政, 首创股份总经理
11:30-11:45	Connecting Atlanta's edge cities through transit: an assessment of select edge city developments as potential transit oriented developments 通过城际交通连接亚特兰大的边缘城市 : 选择边缘城市发展的评估作为发展轻轨导向的潜力 <i>Heba Abdalla and Ameen Farooq</i> <i>Monash University; Kennesaw State University</i>

	美国莫纳什大学；美国肯尼索州立大学
11:45-12:00	<p>Research on legal issues of infrastructure PPP projects 基础设施 PPP 项目的法律问题研究</p> <p><i>Wei Zhao</i> <i>Sunshine Law Firm</i> 浙江阳光时代（北京）律师事务所</p>
12:00-12:15	<p>Life cycle asset management – coping with aging infrastructure – innovative ways to assess condition and performance 生命周期资产管理-应对老化的基础设施-创新方法评估条件和性能</p> <p><i>Henk Voogt</i> <i>Port of Rotterdam</i> 鹿特丹港</p>
12:15-12:30	<p>The SASB standards leveraging the capital markets to drive sustainable infrastructure investment SASB 标准借力资本市场，推动可持续的基础设施投资</p> <p><i>Bryan Esterly</i> <i>Standards Setting Organization, SASB</i> 标准制定组织，SASB</p>
12:30-13:30	<p>午宴/Luncheon</p> <p>30 分钟主旨演讲, 12:30 点开始/30 minutes plenary talk starting at 12:30 pm</p> <p>题目：待定</p> <p>Title: The Funding and the Financing of Sustainable Infrastructure</p> <p>Jordan Schwartz 世界银行，新加坡基础设施和城市发展项目中心主任 Director, Singapore Infrastructure & Urban Development Hub The World Bank</p> <p>Announcement of the Best Paper Award</p> <p>最佳论文奖颁布</p> <p>Closing Ceremony</p> <p>闭幕仪式</p>

October 19, morning, Session 9

Theme	Ecological Principles, Analysis and Engineering for Sustainable Cities
08:30-08:35	Opening Remarks: QU Jiuhui, Former Director of ECEES, CAS 中方致辞：曲久辉，原中国科学院生态环境研究中心主任
08:35-08:40	Opening Remarks: Chris Kennedy, University of Victoria 外方致辞: Chris Kennedy, 维多利亚大学
Co-chair/moderator:QU jiuhui, 曲久辉	
08:40-09:00	Keynote: Ecological Conservation, Remediation and Construction for Building an Ecological Civilization in China: Understanding Concepts of Ecological Activities in China SHEN Guofang, Former Vice President of CAE 主旨发言：从生态保护的角度看生态文明 沈国舫，中国工程院前副院长
09:00-09:20	Keynote: Cities and Infrastructure for China's Ecological Civilization Chris Kennedy, Prof. of University of Victoria 主旨发言：中国生态文明建设中的城市与基础设施 Chris Kennedy, 加拿大维多利亚大学
09:20-09:40	Keynote: Unmanned Automatic Hotel:"Hotel", "Apartment", "House" and "IOT" LIU Jianjun, CEO of Trusted Science and Technology 主旨发言：无人酒店：房屋租赁市场的互联网+之路 刘建军, 北京可信网络科技有限公司 CEO
09:40-09:45	Sustainable development: Physics, dynamics and ethics 可持续发展：物理学、动力学与伦理学 <i>Slav W. Hermanowicz</i> <i>University of California, Berkeley</i> 美国加利福尼亚大学伯克利分校
09:55-10:10	Urban ecological security gap analysis, solution and case study 城市生态安全差距分析、解决方案与案例研究 <i>Lu Hailiang, Li Jing, Zhang Huiyuan, Hao Haiguang</i> <i>Chinese Research Academy of Environmental Sciences</i> 中国环境科学研究院
10:10-10:25	The strategy of ecological civilization construction of oasis city in Northern Slope Economic Zone of Tianshan Mountains 天山北部斜坡经济区绿洲城市生态文明建设战略 <i>Yang Rongjin, Shu Jianmin, Li Juanhua, Lu Hailiang</i> <i>Chinese Research Academy of Environmental Sciences</i> 中国环境科学研究院
10:25-10:40	Discussion on environmental protection in Development Zone under the background of new urbanization 新型城镇化背景下开发区的环境保护探讨 <i>GAO Bao, FU Zeqiang, SHEN Peng</i> <i>Chinese Research Academy of Environmental Sciences</i> 中国环境科学研究院
10 min break	
Co-chair/moderator: Chris Kennedy	
10:50-11:10	Keynote: TBD GAO Jixi, Nanjing Institute of Environmental Sciences, MEP 主旨发言：题目待定 高吉喜，环保部南京环境科学研究所所长
11:10-11:30	Keynote: Environmental Performance Evaluation of Urban Ecological Development JIAO Jian, Executive Vice Director, Beijing Engineering Research Center of Building Energy Efficiency and Urban Ecology 主旨发言：城市生态建设的环境绩效评估 焦舰，北京市建筑高效能与城市生态工程技术研究中心常务副主任
11:30-11:45	Review on the ecological risk assessment on the basis of natural resource multi-functionality 基于自然资源多功能的生态风险评价研究综述

	<p><i>Liu Yujie, Zhang Qiang, Hao Haiguang, Zhai Ruixue, Zhang Huiyuan</i> <i>Chinese Research Academy of Environmental Sciences</i> 中国环境科学研究院</p>
11:45-12:00	<p>Application of high-efficient vertical flow constructed wetland In wastewater treatment typical cases in Shenzhen 高效垂直流动人工湿地在深圳污水处理典型案例中的应用 <i>Youhua Liu; Gong Cheng; Yang Liu; Fangling Li; Tianli Duan; Jiadi Mao; Fuhong Lv; Jiaqi Wang</i> <i>Shenzhen Research Academy of Environmental Sciences</i> 深圳环境科学研究院</p>
12:00-12:15	<p>Courtyard integrated ecological system: an ecological engineering practice in China and its economic-environmental benefit 中国庭院生态综合系统生态工程实践和经济效益评价 <i>Baolong Han, Zhiyun Ouyang, Hongxiao Liua, Zhifu Cuib, Zhongming Luc, John Crittenden</i> <i>Chinese Academy of Sciences; Hainan Agricultural Reclamation Academy of Sciences, China; Georgia Institute of Technology</i> 中国科学院; 海南农垦科学院; 佐治亚理工大学</p>
12:15-12:30	
12:30-13:30	<p>午宴/Luncheon</p> <p>30 分钟主旨演讲, 12:30 点开始/30 minutes plenary talk starting at 12:30 pm</p> <p>题目 : 待定 Title: The Funding and the Financing of Sustainable Infrastructure Jordan Schwartz 世界银行, 新加坡基础设施和城市发展项目中心主任 Director, Singapore Infrastructure & Urban Development Hub The World Bank</p> <p>Announcement of the Best Paper Award</p> <p>最佳论文奖颁布</p> <p>Closing Ceremony</p> <p>闭幕仪式</p>

US National Science Foundation (NSF) Sponsored Workshop
at 2016 ICSI
October 19, 2016

深圳市政府特邀讨论会暨 NSF 研讨会

东海厅 East Sea Hall

08:00-08:30	会议签到 Check-in
	主持人: 深圳市政府领导 Moderator: Governor of Shenzhen Municipality
08:30-08:35	开幕致辞 孟伟, 中国环境科学研究院院长 Opening Remarks Wei Meng, President of CRAES, China
08:35-08:40	开幕致辞 John Crittenden, 美国佐治亚理工大学布鲁克·贝尔斯可持续系统研究所所长 Opening Remarks John Crittenden, Director of Brook Byers Institute for Sustainable Systems, Georgia Institute of Technology, USA
08:40-09:10	深圳市海绵城市及综合管廊建设概况、趋势及挑战 余露副总工程师, 深圳市城市规划设计研究院 The Overview, Trends and Challenges of Sponge City and Urban Utility Tunnel Construction in Shenzhen Lu Yu, Deputy Chief Engineer, Urban Planning & Design Institute of Shenzhen
09:10-10:00	与会专家发言 (50 分钟) Panel Discussion: (50 minutes) Panelist: Guofang Shen, Yi Qian, Jiming Hao, Wei Meng, Yisheng Shao, Daqing Zheng (8 min each) 专题小组发言人: 沈国舫, 钱易, 郝吉明, 孟伟, 邵益生, 郑大庆(每人约8分钟)
10:00-10:10	茶歇 Coffee break
10:10-11:05	Session on Water and Energy Systems 水与能源系统
	Panelist: Cliff Davidson; David Sedlak; Mazdak Arabi; Bing Dong; Anu Ramaswami; David Allen; Yongsheng Chen (5 min each) 专题小组发言人: Cliff Davidson; David Sedlak; Mazdak Arabi; Bing Dong; Anu Ramaswami; David Allen; Yongsheng Chen (每人5分钟)
	Panel Discussion: 20 minutes (Moderators: David Sedlak and David Allen) 专题讨论: 20分钟(主持人: David Sedlak, David Allen)
11:05-11:45	Session on Big Data and Built Infrastructure Systems 大数据和建造基础设施系统
	Panelists: Ming Xu; Mikhail Chester; Lawrence Bank; Sam Ariaratnam; Oswald Chong (5 min each) 专题小组发言人: Ming Xu; Mikhail Chester; Lawrence Bank; Sam Ariaratnam; Oswald Chong (每人5分钟)
	Panel Discussion: 15 minutes (Moderators: Ming Xu and Sam Ariaratnam) 专题讨论: 15分钟(主持人: Ming Xu and Sam Ariaratnam)

11:45-12:25	<p align="center">Session on Planning and Design of Integrated Infrastructure Systems 集成基础设施系统的设计与规划</p>
	<p>Panelists: <i>Jeffrey Raven; Subhrajit Guhathakurta; Nancey Green-Leigh; Steve Foran; Clinton Andrews (5 min each)</i> 专题小组发言人: <i>Jeffrey Raven; Subhrajit Guhathakurta; Nancey Green-Leigh; Steve Foran; Clinton Andrews (每人 5 分钟)</i></p>
	<p>Panel Discussion: 15 minutes (<i>Moderators: Subhrajit Guhathkurta and Clinton Andrews</i>) 专题讨论: 15 分钟(<i>主持人: Subhrajit Guhathkurta, Clinton Andrews</i>)</p>
12:25-12:30	<p align="center">Discussion & Conclusion 讨论与总结 Consultation & Discussion, Summary by NSF Delegate 参会人员咨询讨论, NSF 代表总结</p>