WORLD Sustainable Built Environment Conference 2017, Hong Kong

Transforming Our Built Environment through Innovation and Integration: Putting Ideas into Action

Date: 5-7 June 2017 (Mon-Wed)
Venue: Hong Kong Convention and Exhibition Centre

www.wsbe17hongkong.hk
WSBE17 Hong Kong: THE MOST INFLUENTIAL GREEN BUILDING MEGA EVENT

The Construction Industry Council and the Hong Kong Green Building Council jointly invite you to participate at the World Sustainable Built Environment Conference 2017 Hong Kong (WSBE17 Hong Kong) on 5-7 June 2017.

Pre-eminent Conference Series

The Sustainable Built Environment (SBE) series began in 2000 and is now the pre-eminent international conference series on sustainable building and construction. The series operates on a three-year cycle with planning in year one, regional conferences in year two and a global conference in year three. Albeit strong competition, Hong Kong won the hosting right of the 2015-2017 cycle global conference, which will conclude the conference cycle by embracing all the top findings from the 20 regional conferences held in 2016.

Past Editions of World SBE Conferences

<table>
<thead>
<tr>
<th>Year</th>
<th>Location</th>
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<tbody>
<tr>
<td>2000</td>
<td>Maastricht</td>
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<td>2002</td>
<td>Oslo</td>
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<td>2005</td>
<td>Tokyo</td>
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<td>2008</td>
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<td>2011</td>
<td>Helsinki</td>
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<td>2014</td>
<td>Barcelona</td>
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Convergence of top ideas and discussions in 2016 Regional SBE Conference Series

About WSBE17 Hong Kong

With the theme of Transforming Our Built Environment through Innovation and Integration: Putting Ideas into Action, WSBE17 Hong Kong will bring together 1,800 green building advocates, policy-makers, academics, and industry practitioners from over 55 countries. The three-day event includes conference sessions with top-notch speakers, and around 100 parallel sessions, with an exhibition alongside.

About the Organisers

The Construction Industry Council (CIC) was formed in 2007 under the Construction Industry Council Ordinance (Cap. 587). The CIC consists of a chairman and 24 members representing various sectors of the industry including employers, professionals, academics, contractors, workers, independent persons and Government officials.

The main functions of the CIC are to forge consensus on long-term strategic issues, convey the industry’s needs and aspirations to Government, provide training and registration for the construction workforce and serve as a communication channel for Government to solicit advice on all construction-related matters.

The Hong Kong Green Building Council (HKGBC) is a non-profit, member led organisation established in 2009 with the vision to help save the planet and improve the wellbeing of the people of Hong Kong by transforming the city into a greener built environment. The Founding Members of the HKGBC include the Construction Industry Council (CIC), the Business Environment Council (BEC), the BEAM Society Limited (BSL) and the Professional Green Building Council (PGBC). Its mission is to lead market transformation by advocating green policies to the Government; introducing green building practices to all stakeholders; setting design, construction and management standards for the building profession; and promoting green living to the people of Hong Kong.

BENEFITS OF ATTENDING

- Meet over 1,800 top-notch global green building experts from 55+ countries
- Discover cutting-edge findings from over 100 sessions
- Gain market insights from over 450+ distinguished speakers
- Learn the latest products and solutions from around the world
- Explore the Fast Growing Asian Markets, especially Mainland China
- Appreciate the city development and natural beauty of high-density Hong Kong
PLENARY SESSIONS

Guests of Honour

Hon. LEUNG Chun-ying
Chief Executive, Hong Kong Special Administrative Region

Dr QIU Baoxing
Representative of The Ministry of Housing and Urban-Rural Development & Co-chair of Counsellor’s Office of the State Council of the PRC

Keynote Speakers

Mr Matthew CHEUNG Kin-chung
Chief Secretary for Administration, Government of the HKSAR

Mr SU Yunshan
Director-General, Department of Science & Technology and Energy Saving on Buildings, Ministry of Housing and Urban-Rural Development, PRC

Ms Christiana FIGUERES
Vice-chair, Global Governing Board of Mayors for the Climate and Energy

Prof. Peter GUTHRIE
Director, Centre for Sustainable Development, University of Cambridge

Prof. Thomas AUER
Managing Director, Transsolar; Professor, Building Technology and Climate Responsive Design, TUM

Dr Raymond COLE
Professor, School of Architecture and Landscape Architecture, University of British Columbia

Climate Change and Sustainable Development

Session Chair

Mr Curt GARRIGAN
Chair of Building Regulation Programmes, UK Environment - Secretary District

Speakers

Mr WONG Kam-sing
Secretary for the Environment, Government of the HKSAR

Ms Christiana FIGUERES
Vice-chair, Global Governing Board of Mayors for the Climate and Energy

Mr Jennifer LAYKE
Director, Global Building Program, World Resources Institute

Mr Gregor HERDA
Regional Housing Advisor, United Nations Human Settlement Programme (UN-Habitat)

Mr John DULAC
Energy Technology Policy Building Sector Lead, International Energy Agency

Mr Nils LARSSON
General Manager, International Union for a Sustainable Built Environment

Mr Pekka HUOVILA
Chairman, 10YFP Sustainable Buildings and Construction Programme (SBC) Programme

Mr Roland HUNZIKER
Chair, International Urban Building and Cities, World Business Council for Sustainable Development

Ms Christine LOH
Under Secretary for the Environment, Government of the HKSAR

Ms Jennifer LAYKE
Director, Global Building Program, World Resources Institute

Mr Pekka HUOVILA
Chairman, 10YFP Sustainable Buildings and Construction Programme (SBC) Programme

Mr John DULAC
Energy Technology Policy Building Sector Lead, International Energy Agency

Ms Christine LOH
Under Secretary for the Environment, Government of the HKSAR

Roundtable 1 - Emerging Perspectives for Transforming the Build Environment

Session Chair

Prof. Thomas LÜTZKENHORN
Chair of the Land-Energy-Energy Efficiency Research Group, Institute of Real Estate, Karlsruhe Institute of Technology

Speakers

Mr. Tai Lees-siang
Chair, WorldGBC

Prof. Wang Wenhui
Chairman, China Green Building Council

Prof. Serge SALAT
President, Urban Morphology and Complex Systems Institute

Prof. Arno SCHLUETER
Professor, Architecture and Building Systems ETH Zurich; Principal Investigator, Future Cities Laboratory, Singapore ETH Centre

Ar. Bryant LU
Vice Chairman, Ronald Lu and Partners

Mr. Douglas WOO
Chairman & Managing Director, Wheelock and Company Ltd

Mr. Nils LARSSON
General Manager, International Union for a Sustainable Built Environment

Mr Pekka HUOVILA
Chairman, 10YFP Sustainable Buildings and Construction Programme (SBC) Programme

Mr. Roland HUNZIKER
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Mr. John DULAC
Energy Technology Policy Building Sector Lead, International Energy Agency

Ms. Christine LOH
Under Secretary for the Environment, Government of the HKSAR

Roundtable 2 - Leadership Driving for the Sustainable Built Environment

Session Chair

Ir. Prof. WONG Sze-chun
Chairman, WSBE17 Hong Kong Scientific Committee

Speakers

Dr. George BAIRD
Executive Professor of Architecture and Urban Design, University of Sydney

Mr. Douglas WOO
Chairman & Managing Director, Wheelock and Company Ltd

Prof. Greg FOLIENTE
Executive Director, Future Cities Laboratory, Singapore ETH Centre

Mr. TAN Tian-chong
Deputy Managing Director, Building and Construction Authority

Mr. Nils LARSSON
General Manager, International Union for a Sustainable Built Environment

Mr. Peck HUOVILA
Chairman, 10YFP Sustainable Buildings and Construction Programme (SBC) Programme

Mr. Roland HUNZIKER
Chair, International Urban Building and Cities, World Business Council for Sustainable Development

Mr. Gregor HERDA
Regional Housing Advisor, United Nations Human Settlement Programme (UN-Habitat)

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Under Secretary for the Environment, Government of the HKSAR

Mr. Pekka HUOVILA
Chairman, 10YFP Sustainable Buildings and Construction Programme (SBC) Programme

Mr. John DULAC
Energy Technology Policy Building Sector Lead, International Energy Agency

Ms. Christine LOH
Under Secretary for the Environment, Government of the HKSAR
CONFFERENCE PROGRAMME

Day 1 • 5 June 2017 (Mon)

08:00 - 09:00 Registration
09:00 - 10:00 Opening Ceremony
Welcome Remark
Ir Conrad WONG, Chairman, WSBE17 Hong Kong Organising Committee
Opening Remark
Hon. LEUNG Chun-ying, Chief Executive, Hong Kong Special Administrative Region
Dr QIU Baoxing, Representative of The Ministry of Housing and Urban-Rural Development & Counsellor of Counsellor’s Office of the State Council of the PRC

10:00 - 10:30 Convention Hall
Keynote 1: Mr Matthew CHEUNG Kin-chung, Chief Secretary for Administration, Government of the HKSAR

10:30 - 11:00 Convention Hall
Keynote 2: Mr SU Yunshan, Director-General, Department of Science & Technology and Energy Saving on Buildings, Ministry of Housing and Urban-Rural Development, People’s Republic of China

11:00 - 11:20 Convention Hall
Coffee Break

11:20 - 11:50 Convention Hall
Keynote 3: Ms Christiana FIGUERES, Vice-chair, Global Covenant of Mayors for Climate & Energy

11:50 - 12:00 Convention Hall
Platinum Sponsor’s Sharing - Mr Sean CHIAO, President, Asia Pacific, AECOM

12:00 - 13:30 Networking Luncheon (Grand Hall, Level 3, Hong Kong Convention and Exhibition Centre)
For registered guests only

13:30 - 15:00 Parallel Session 1

<table>
<thead>
<tr>
<th>Venue</th>
<th>Venue</th>
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<tbody>
<tr>
<td>1.1 Mainland China Session: The Comprehensive Scheme on Green Renovating and Performance Enhancement of Existing Buildings in China level 1 - Convention Hall</td>
<td>1.2 Regional Session: Czech Republic, Italy, Sweden and Switzerland level 1 - Theatre 1</td>
</tr>
<tr>
<td>1.3 Advanced Building Elements level 1 - Theatre 2</td>
<td>1.4 Practices Review of High-Performance Green Buildings level 2 - 222</td>
</tr>
<tr>
<td>1.5 SBE Assessments - Green Neighbourhoods (1) level 4 - 424</td>
<td>1.6 Innovations Driving for Greener Policies and Standards - Carbon Assessment level 2 - 223 &amp; 225</td>
</tr>
<tr>
<td>1.7 Vision-led Sustainable Neighborhoods: Myths and Musts level 2 - 222 &amp; 225</td>
<td>1.8 Innovations for Occupant Wellbeing (1) level 4 - 426 &amp; 427</td>
</tr>
<tr>
<td>1.9 Practices &amp; Methodologies for Green Building Management (1) level 2 - 222</td>
<td>1.10 Green Infrastructure in SBE - Hong Kong Case level 4 - 424</td>
</tr>
<tr>
<td>1.11 Processes, Design, Tools and Methodologies in SBE (1) level 4 - 424</td>
<td>1.12 Regenerating Urban Space in Neighbourhoods level 4 - 426 &amp; 427</td>
</tr>
<tr>
<td>1.13 Healthy and Sustainable Building for Resilient Future level 2 - 226 &amp; 227</td>
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</table>

15:00 - 15:20 Coffee Break

15:20 - 16:20 Convention Hall
Roundtable 1: Emerging Perspectives for Transforming the Build Environment
Session Chair:
Prof. Thomas LÜTZKENDORF, Director, Centre for Real Estate; Head of Chair, Sustainable Management of Housing and Real Estate, Karlsruhe Institute of Technology

Speakers:
Ar. TAI Lee-siang, Chair, WorldGBC
Prof. WANG Youwei, Chairman, China Green Building Council
Prof. Serge SALAT, President, Urban Morphology and Complex Systems Institute
Prof. Amo SCHLUETER, Professor, Architecture and Building Systems ETH Zurich; Principal Investigator, Future Cities Laboratory, Singapore ETH Centre
Ar. Bryant LU, Vice Chairman, Ronald Lu and Partners

16:30 - 18:00 Parallel Session 2

<table>
<thead>
<tr>
<th>Venue</th>
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<tbody>
<tr>
<td>2.1 Mainland China Session: Green Building Design and Technological Challenges of Eco Skyscraper in China level 1 - Convention Hall</td>
<td>2.2 Regional Session: Turkey, Greece, Malta and Egypt level 1 - Theatre 1</td>
</tr>
<tr>
<td>2.3 Advanced Building Systems level 1 - Theatre 2</td>
<td>2.4 Policies for High-Performance Green Buildings (1) level 2 - S221</td>
</tr>
<tr>
<td>2.5 SBE Assessments - Green Neighbourhoods (2) level 2 - 222 &amp; 223</td>
<td>2.6 Innovations Driving for Greener Policies and Standards - Carbon Assessment level 2 - 223 &amp; 225</td>
</tr>
<tr>
<td>2.7 Deep Energy Saving and Other Innovative Green Measures for Commercial Buildings in Hong Kong, Mainland China and Overseas level 2 - 222 &amp; 225</td>
<td>2.8 Innovations for Occupant Wellbeing (2) level 4 - 426 &amp; 427</td>
</tr>
<tr>
<td>2.9 Practices &amp; Methodologies for Green Building Management (2) level 2 - 223</td>
<td>2.10 Transforming SBE Practices - Energy Management (1) level 4 - 424</td>
</tr>
<tr>
<td>2.11 Processes, Design, Tools and Methodologies in SBE (2) level 4 - 426 &amp; 227</td>
<td>2.12 Processes of Urban Regeneration level 4 - 424</td>
</tr>
<tr>
<td>2.13 Powering Up Smart City level 4 - 426 &amp; 227</td>
<td>2.14 Sustainability Assessment of Buildings as Part of Green-Public Procurement Based on the German BNB-System level 4 - 426 &amp; 427</td>
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<tr>
<td>2.15 Sustainability Assessment of Buildings as Part of Green-Public Procurement Based on the German BNB-System level 4 - 426 &amp; 427</td>
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WSBE17 Hong Kong
## Day 2 • 6 June 2017 (Tue)

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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00 - 09:00</td>
<td>Registration</td>
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<tr>
<td>09:00 - 11:50</td>
<td>Plenary Session on Climate Change and Sustainable Development</td>
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<tr>
<td></td>
<td><strong>Session Chair:</strong> Mr Carl GARRIGAN, Cities and Buildings Programme Manager, UN Environment – Economy Division</td>
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<td></td>
<td><strong>Speakers:</strong> Mr WONG Kam-sing, Secretary for the Environment, Government of the HKSAR</td>
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<td></td>
<td>Ms Christiana FIGUERES, Vice-chair, Global Covenant of Mayors for Climate &amp; Energy</td>
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<td>Ms Jennifer LAYKE, Director, Global Energy Program, World Resources Institute</td>
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<td></td>
<td>Mr Gregor HERDA, Regional Housing Advisor, United Nations Human Settlement Programme (UN-Habitat)</td>
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<td>Mr John DULAC, Technology Policy Building Sector Lead, International Energy Agency</td>
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<td></td>
<td>Mr Nils LARSSON, Executive Director, International Initiative for a Sustainable Built Environment</td>
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<td></td>
<td>Mr Peisak HUOVILA, Coordinator, 10YFP Sustainable Buildings and Construction (SBC) Programme</td>
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<td></td>
<td>Mr Roland HUNZIKER, Director, Sustainable Buildings &amp; Cities, World Business Council for Sustainable Development</td>
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<td></td>
<td>Ms Christine LOH, Under Secretary for the Environment, Government of the HKSAR</td>
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<tr>
<td>11:50 - 12:00</td>
<td>Platinum Sponsor’s Sharing - Dr Raymond YAU, General Manager, Technical Services &amp; Sustainable Development, Swire Properties Ltd.</td>
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<tr>
<td>12:00 - 13:30</td>
<td>Lunch Break (Cafe Renaissance, M/F, Renaissance Harbour View Hotel)</td>
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<td>For registered guests only</td>
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<tr>
<td>13:30 - 15:00</td>
<td>Parallel Session 3</td>
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<td><strong>Venue</strong></td>
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<td></td>
<td>3.1 Mainland China Session - Turning Green to Gold - State of Green Finance to Drive Sustainable Low-Carbon Urban Development in China</td>
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<td>3.2 International Youth Competition (1)</td>
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<td>3.3 Advanced Building Systems - Energy Generation (1)</td>
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<td>3.4 Policies for High-Performance Green Buildings (2)</td>
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<td></td>
<td>3.5 Performance Review of Green Buildings (1)</td>
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<td></td>
<td>3.6 Innovations Driving for Greener Policies and Standards – Practices Review</td>
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<td>3.7 High Performance Transportation Hub: Their Critical Role and Requirements?</td>
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<td>3.8 Innovative Practices for Occupant Wellbeing – Bioclimatic Design</td>
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<td>3.9 Practices &amp; Methodologies for Green Building Management (3)</td>
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<td>3.10 Transforming SBE Practices - Energy Management (3)</td>
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<td></td>
<td>3.11 BIM for Sustainability (1)</td>
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<td>3.12 Emerging Practices in Sustainable Built Environment</td>
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<td>3.13 Community Empowerment (1)</td>
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<td></td>
<td>3.14 Environmally Responsive Buildings and Human Interactions</td>
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<td>15:00 - 15:20</td>
<td>Coffee Break</td>
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<tr>
<td>15:20 - 16:20</td>
<td>Roundtable 2: Leadership Driving for the Sustainable Built Environment</td>
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<td></td>
<td><strong>Session Chair:</strong> Ms Christine LOH, Under Secretary for the Environment, Government of the HKSAR</td>
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<td></td>
<td><strong>Speakers:</strong> Dr George BAIRD, Emeritus Professor of Building Sciences, School of Architecture, Victoria University of Wellington</td>
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<td></td>
<td>Mr Douglas WOO, Chairman &amp; Managing Director, Wheelock and Company Ltd.</td>
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<td>Prof. Greg FOLENTE, Enterprise Professor, University of Melbourne; Regional Director in Asia-Pacific, iiSBE; Founding Director, iiLUE Pty Ltd.</td>
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<td>Mr TAN Tian-chong, Deputy Managing Director, Built Environment Research and Innovation Institute, Building and Construction Authority</td>
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<td>Mr Lincoln LEONG, Chief Executive Officer, MTR Corporation</td>
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## CONFERENCE PROGRAMME

### Day 3 • 7 June 2017 (Wed)

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<tr>
<td>08:00 - 09:00</td>
<td>Registration</td>
</tr>
<tr>
<td>09:00 - 09:30</td>
<td>Keynote 4: Prof. Peter GUTHRIE, Director, Centre for Sustainable Development, University of Cambridge</td>
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<tr>
<td>09:30 - 10:00</td>
<td>Keynote 5: Prof. Thomas AUE, Managing Director, Transsolar; Professor, Building Technology and Climate Responsive Design, Technical University of Munich</td>
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<tr>
<td>10:00 - 10:30</td>
<td>Coffee Break</td>
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<tr>
<td>10:30 - 12:00</td>
<td>Parallel Session 5</td>
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<tr>
<td>Venue</td>
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<tr>
<td>5.1 Regional Session - Canada, Brazil-Portugal, The Netherlands, Germany and Tallinn- Helston</td>
<td>Level 1 - Convention Hall</td>
</tr>
<tr>
<td>5.3 Smart Initiatives in SBE (1)</td>
<td>Level 1 - Theatre 2</td>
</tr>
<tr>
<td>5.5 SBE Assessments - Green Building Policies</td>
<td>Level 2 - S222</td>
</tr>
<tr>
<td>5.7 Innovations Driving for Greener Policies and Standards - Assessment, Analysis and Modelling (1)</td>
<td>Level 2 - S223</td>
</tr>
<tr>
<td>5.9 Transforming Green Market - Green Economics (1)</td>
<td>Level 2 - S228</td>
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<tr>
<td>5.11 Processes, Design, Tools and Methodologies in SBE (3)</td>
<td>Level 4 - S421</td>
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<tr>
<td>5.13 Stakeholder Collaboration</td>
<td>Level 4 - S421</td>
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<tr>
<td>12:00 - 12:30</td>
<td>Lunch Break (Cafe Renaissance, M/F, Renaissance Harbour View Hotel) For registered guests only</td>
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<tr>
<td>13:30 - 15:00</td>
<td>Parallel Session 6</td>
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<td>Venue</td>
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<tr>
<td>6.1 Regional Session - Australia, Mainland China, Singapore, South Korea and Philippines</td>
<td>Level 1 - Convention Hall</td>
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<tr>
<td>6.3 Smart Initiatives in SBE (2)</td>
<td>Level 1 - Theatre 2</td>
</tr>
<tr>
<td>6.5 SBE Assessments - Design Processes</td>
<td>Level 2 - S222</td>
</tr>
<tr>
<td>6.7 Innovations Driving for Greener Policies and Standards - Assessment, Analysis and Modelling (2)</td>
<td>Level 2 - S222</td>
</tr>
<tr>
<td>6.9 Transforming Green Market - Green Economics (2)</td>
<td>Level 2 - S228</td>
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<tr>
<td>6.11 Processes, Design, Tools and Methodologies in SBE (4)</td>
<td>Level 4 - S421</td>
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<tr>
<td>6.13 Place-making - Integrative Design Processes</td>
<td>Level 4 - S421</td>
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<tr>
<td>15:00 - 16:00</td>
<td>Parallel Session 7</td>
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<td>Venue</td>
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<tr>
<td>7.1 Education and Training for Transforming SBE</td>
<td>Level 1 - Theatre 1</td>
</tr>
<tr>
<td>7.3 Smart Initiatives in SBE (3)</td>
<td>Level 2 - S222</td>
</tr>
<tr>
<td>7.5 SBE Assessments - Practices Review</td>
<td>Level 2 - S222</td>
</tr>
<tr>
<td>7.7 Innovations Driving for Greener Policies and Standards - Smart Initiatives</td>
<td>Level 2 - S223</td>
</tr>
<tr>
<td>7.9 Transforming Green Market - Supply Chain</td>
<td>Level 2 - S228</td>
</tr>
<tr>
<td>7.11 Processes, Design, Tools and Methodologies in SBE (5)</td>
<td>Level 4 - S421</td>
</tr>
<tr>
<td>7.13 Place-making - Practices Review</td>
<td>Level 4 - S421</td>
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<tr>
<td>16:50 - 17:30</td>
<td>Closing Ceremony</td>
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<td>Venue</td>
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<tr>
<td>Keynote 6: Dr Raymond COLE, Professor, School of Architecture and Landscape Architecture, University of British Columbia</td>
<td>Level 1 - Theatre 1</td>
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<tr>
<td>17:20 - 18:00</td>
<td>Closing Ceremony</td>
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<tr>
<td>Closing Ceremony</td>
<td>•  Speech by Mr Eric MA, Secretary for Development, Government of the HKSAR</td>
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<td>•  Presentation of International Youth Competition Awards</td>
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<td>•  Announcement of Host of WSBE2020 by Mr Nils LARSSON, Representative of SBE Co-owners</td>
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<td>•  Closing Remark by Ir Conrad WONG, Chairman of WSBE17 Hong Kong Organising Committee</td>
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</table>

### Day 4 & 5 • 8 - 9 June 2017 (Thu-Fri)

Green Building Technical Visits & Eco Tours

Remark: The Organisers reserve the right to update or change the programme content, session and paper allocation as well as venue without prior notice. Speakers and delegates are recommended to check constantly the Conference App to observe the latest programme and venue.
Session 1.1 - Session Organiser: Kong SAR Chairperson, BEAM Society Ltd.; Honorary Professor, Department Building Research Director, Division of Science and Technology, China Academy of ZHU Neng, The Study of Energy Efficiency and Retro-Commissioning for Existing Large-scale Research Technique Group Co., Ltd.

Session Chair: YIN Bo, Director, Division of Science and Technology, China Academy of Building Research

The Roadmap on the Development of Comprehensive Scheme on Green Retrofitting and Performance Enhancement of Existing Buildings in China YIN Bo, Director, Division of Science and Technology, China Academy of Building Research

The Appropriate Technologies and Practical Case Study on Green Retrofitting the Residential Developments in Green City of Beijing in China JIANG Yangping, Professor, School of Municipal and Environmental Engineering, Harbin Institute of Technology

The Appropriate Technologies and Case Studies on Green Retrofitting the Healthcare Facilities in China DI Yanqiang, Head of Division, Division of Construction Technologies, China Building Institute of Technology

The Study of Energy Efficiency and Retro-Commissioning for Existing Large-scale Public Buildings JIANG Yiqiang, Professor, School of Environmental Science and Engineering, Tsinghua University

Session 1.2 Regional Session - Czech Republic, Italy, Sweden and Switzerland Level 1 - Theatre 1

Session Chair: François BAILLON, Board member, SBE series; Senior Adviser, FIDIC; Treasurer, Business and Climate Summit Association; Founder, Ideagrama Consultant

Session 1.3 Advanced Building Elements Level 1 - Theatre 2

Session Chair: Jian-li NIU, Chair Professor of Building Environment and Energy, Associate Head of Department, and Director - Research Centre for Building Environmental Engineering Department of Building Services Engineering, The Hong Kong Polytechnic University; Editor-in-chief, Energy and Buildings Journal, Hong Kong SAR

Session 1.4 Practices Review of High-Performance Green Buildings Level 2 - S221

Session Chair: Phil JONES, Chair of Architectural Science, Welsh School of Architecture, Cardiff University, United Kingdom; Visiting Research Professor, Faculty of Architecture, University of Hong Kong, Hong Kong SAR

Contribution: When will Hong Kong Build its First Passive House? - Concepts and Case Studies Around Asia Show Great Possibilities for Energy Saving

Anne JACOBS, Senior Expert, Sustainable Construction, BAMB, Hong Kong SAR

Insights into Green Hotels: Case Studies Design ETS Limited, Principal, TURBO Consulting, Turkey

Building Energy Efficiency in Hong Kong: Case Study of a Commercial Building with BEAM Plus Provisional Platinum Rating (Existing Buildings) POON Kam-mui, Business Environment Council Ltd., Hong Kong SAR

An Elemental Approach for Predicting Embodied Carbon of Office Buildings GROH PEREIRA, Professor of Built Environment & Construction Management, Western Sydney University, Australia

Exploring Risks and Rewards Associated with High-Performance Manufactured Buildings Karina Charles HAMGROVES, Senior Research Fellow, Curtin University, Australia

Session 1.5 SBE Assessments - Green Neighbourhoods (1) Level 4 - S428

Session Chair: John NG, Chairperson, BEAM Society Ltd.; Honorary Professor, Department of Urban Planning and Design, University of Hong Kong, Hong Kong SAR

LEED Certification and the New Standard of Sustainable Construction in Colombia Annelie PULI, Architect, Universidad Politécnica Salesiana, Colombia

Comparative Study of China’s Eco-City Key Performance Indicator Systems DENG Wu, Assistant Professor, University of Hiroshima Hiroshima, Hiroshima, Waseda University China, Waseda China A Human-Oriented Study of The Assessment Method for Sustainable Urban Districts in China - Comparison of LEED Neighbourhood Development, BREED Community, CASBEE-Cities and China Urban Climate System EDITION ZHANG, Consultant, GB Tech Consulting Ltd., Hong Kong SAR

Reducing the Impacts of the Built Environment on the Environment through the Integration of Socio-economic Indicators in Certification Standards Franscevic CAPAL, Civil Engineer, GREEN ITS Écologie technologie applicable, Canada

Development of a Comprehensive City Assessment Tool Applicable in Various Type of Cities Around the World: CASBEE-City (worldwide use version) Shinsuke ANDO, Assistant Professor, Hosei University, Japan

The Potential of Applying Local Climate Zone for the Sustainable Planning in Urban Built Environment DENG Chuicheng, Department of Architecture, National Cheng Kung University, Taiwan

Building Envelope and Their Impact on Our Urban Thermal Environment HANG Xue-ying, The University of Hong Kong, Hong Kong SAR

Urban Geometry and Wind Simulation Studies for Comfort in Bangkok Street Canyon Phakanapan TAKAKRON, Professor, Kasetsart University, Thailand

Research of Urban Heat Island (UHI) in Shenzhen Based on Climatic Design and Urban Planning Strategies YU Wenping, Sustainable Design Assistant, Ronal Hu and Partners (Hong Kong) Ltd., Hong Kong SAR

Influence of Moving Vehicles on Pollutant Dispersion in Street Canyon – A Numerical Study WANG Xi, Division of Building Science and Technology, City University of Hong Kong, Hong Kong SAR

Session 1.6 Innovations Driving for Greener Policies and Standards - Microclimate Level 2 - S223

Session Chair: Otto POON, Chairman, ATAL Engineering Ltd., Hong Kong SAR

SDG16 Prague

Abhijit PULI, Head of Department, Architecture and the Environment, Czech Technical University, Czech Republic

SDG16 Turin

Andrea BOCCINO, President, ISCE Italia, Italy

SDG16 Madrid

Xavier ZERNIKEL, Lund University, Sweden

SDG16 Zurich

Suzanne HABERT, ETH Zurich, Switzerland

Session 1.7 - Session Organiser: AECOM Vision-led Sustainable Neighborhoods: Myths and Mystics Level 4 - S426 & 427

Session Chair: WONG Chi-chung, Executive Vice President, Asia; Global Head, Chinese Overseas Investment (COI) Program, AECOM, Hong Kong SAR

Session Chair: Tony IP, Deputy Director of Sustainable Design, Redal Lu & Partners, Hong Kong SAR

Research and Development of Noise Mitigation Measures for Public Housing Development JOHN NG, Head Civil Engineer, Hong Kong Housing Authority, Government of the HKSAR, Hong Kong SAR

Extending Tophahn/Haynor’s Wind Speaks Using Windmills and Post-Storm Wind Vulnerability Analysis on the Affected Areas NIKOLA ASAJ, Civil Engineer, University of Philippines Diliman, Philippines

Outdoor Lighting Quality and Glare Rating Evaluation of Night-time Community Parks YOO Poon, Associate Professor, Department of Architecture, Chulalongkorn University of Technology, Thailand

Better Places for People: Health and Wellbeing Measurement Methods in Workplaces MAIS DE MARCEOS, Architect – Institutional and Governmental Relations Coordinator, Green Building Council Brazil, Brazil

Development of a Home Indoor and Outdoor Environment Visualization System Yoko HAKAJIMA, Professor, Kagoshima University, Japan

Albert KB CHAN, Director of Development Planning & Design, Shui On Land

Belinda YUEN, Professorial Fellow and Research Director, Lee Kuan Yew Centre for Innovative Cities, Singapore University of Technology and Design, Singapore

Claire BONHAM-CARTER, Principal and Director of Sustainable Development, Design and Planning, AECOM, United States of America

Raymond LEE, Director of Planning, Planning Department, Government of the HKSAR

Session 1.8 Innovations for Occupant Wellbeing (1) Level 2 - S224 & 225

Session Chair: Jian-lei NIU, Chair Professor of Building Environment and Energy, Associate Head of Department, and Director - Research Centre for Building Environmental Engineering Department of Building Services Engineering, The Hong Kong Polytechnic University; Editor-in-chief, Energy and Buildings Journal, Hong Kong SAR

Fiber Facade Perimetre OSWALD, Institute of Architecture Technology, Graz University of Technology, Austria

The Impact of Double Skin Facade on the Energy Consumption of Office Buildings Under the Tropical Brunei Climate Kenneth IP, Principal Lecturer, University of Brighton, United Kingdom

Climate-Adaptable and Optimized Building Envelope Designs in East Asia Kevin WANG, Engineer, Arup, Hong Kong SAR

Fielded Cardboard Sandwich for Load-bearing Architectural Components Stephen SCHIEß, Research Assistant, Architect, Bauhaus-Universität Weimar, Germany

Multisystem Framework for Energy Efficient Buildings WIssAM BELEIKA, 2010 e., University Chair, Czech Republic

Ferdinand OSWALD, GB Tech Consulting Ltd., Hong Kong SAR

Session 1.9 - Session Organiser: AECOM Vision-led Sustainable Neighborhoods: Myths and Mystics Level 4 - S426 & 427

Session Chair: AECOM Biling YUEN, Professorial Fellow and Research Director, Lee Kuan Yew Centre for Innovative Cities, Singapore University of Technology and Design, Singapore

Research and Development of Noise Mitigation Measures for Public Housing Development JOHN NG, Head Civil Engineer, Hong Kong Housing Authority, Government of the HKSAR, Hong Kong SAR

Extending Tophahn/Haynor’s Wind Speaks Using Windmills and Post-Storm Wind Vulnerability Analysis on the Affected Areas NIKOLA ASAJ, Civil Engineer, University of Philippines Diliman, Philippines

Outdoor Lighting Quality and Glare Rating Evaluation of Night-time Community Parks YOO Poon, Associate Professor, Department of Architecture, Chulalongkorn University of Technology, Thailand

Better Places for People: Health and Wellbeing Measurement Methods in Workplaces MAIS DE MARCEOS, Architect – Institutional and Governmental Relations Coordinator, Green Building Council Brazil, Brazil

Development of a Home Indoor and Outdoor Environment Visualization System Yoko HAKAJIMA, Professor, Kagoshima University, Japan
### Session 1.9
**Practices & Methodologies for Green Building Management (1)**
**Level 2 - S228**
*Session Chair: WONG Wai-kwong*
Chief Building Services Engineer/2, Architectural Services Department, Government of the HKSAR, Hong Kong SAR

- Incorporating Sustainability Criteria in Commercial Workplace Fit-out Guidelines for a Banking Operation
  - James WONG, Program Manager, RMIT University, Australia
  - Saleh-Sabah DAUSA, Business School of Hofstra University, New York, Mainland China
- Project Management Strategies for Green Business Parks: Critical Success Factors, Barriers and Solutions
  - Shan Ping, National University of Singapore, Singapore

- Smart, Green + Productive Workplace
  - Simone SKOPEK, JLL, Canada

### Session 1.10
**Green Infrastructure in SBE - Hong Kong Cases**
**Level 4 - S423 & 424**
*Session Chair: Samuel KONGW*
Group Sustainable Development Manager, John Swire & Sons (H.K.) Ltd., Hong Kong SAR

- Implementing the Desulfurization and Sustainable Designs for the Harbour Area Treatment Scheme (HATS) Stage 2A
  - Andrew LAI, Resident Engineer, Arup, Hong Kong SAR
- Building Water Resilience in Sustainable Neighbourhoods: A Progressive Shift in Hong Kong
  - Edmund WP LUI, Senior Engineer, Water Supplies Department, Government of the HKSAR, Hong Kong SAR
- Integrating Water Management Facilities into The Built Environment - A Smart Green Resilient Approach
  - Kenneth KWDK, Associate Director, Arup, Hong Kong SAR

- Driving Innovations For Green Infrastructure Components
  - Nicholas AI, Hong Kong Housing Authority, Government of the HKSAR, Hong Kong SAR

### Session 1.13 - Session Organiser: Link Asset Management Ltd / Nan Fung Development Ltd
**Healthy and Sustainable Building for Resilient Future**
**Level 2 - S226 & S227**
*Session Chair: Chris KIWAN*
Senior Project Manager, Project & Planning, Link Asset Management Ltd., Hong Kong SAR

- Green Buildings - The Foundation for Sustainable Development
  - Calvin Lee KIWAN, General Manager - Sustainability, Link Asset Management Ltd., Hong Kong SAR
- Nan Fung’s Corporate Initiative for New and Revitalization Development
  - Samuel WONG, Deputy General Manager - Project Opt., Nan Fung Development Ltd., Hong Kong SAR
- Leading Edge Trend for Resilient Future Building Design
  - Vincent OMBIO, Director of Building Sustainability, Arup, Hong Kong SAR
- Exemplar Next Generation Commercial Development - HSK0412
  - Bing KIWAN, Director, P&T Architects and Engineers Ltd, Hong Kong SAR
- Alan LO, Associate Director of Building Sustainability, Arup, Hong Kong SAR

### Session 1.11
**Processes, Design, Tools and Methodologies in SBE (1)**
**Level 4 - S421**
*Session Chair: Chimay J. ANUMBA*
Dean & Professor, University of Florida, United States of America

  - Julia TSCHETWERTAK, Bauhaus-University Weimar, Germany
- Rethinking Architectural Passive Cooling Strategies in New Zealand’s Non-residential Building Stock
  - Lesley METIBOGUN, School of Architecture, Victoria University of Wellington, New Zealand

### Session 1.12
**Regenerating Urban Space in Neighbourhoods**
**Level 4 - S425**
*Session Chair: Thomas TANG Sek-khuen*
Managing Director, Kuala Lumpur Centre for Sustainable Innovation, Malaysia

- Cultivating a Village Impulse in the Midst of Warsaw, the Jadów Settlement of Finnish Houses
  - Dariusz ŚMICZOWSKI, Senior Lecturer, Academy of Fine Arts in Warsaw, Poland
- Productive Transforming of the Urban Traffic Space
  - Han DON, Tianjin University, Mainland China
- Nature-based Urban Space Transformation
  - HAN Dan, Tianjin University, Mainland China
- Historic Relationship Between Urban Dwellers and the Tomebamba River
  - M. Augusta HERMIDA, Professor, Universidad de Cuenca, Ecuador
- Transformation from River Channelisation to River Revitalisation
  - Richard LEUNG Wah-ming, Senior Engineer, Drainage Services Department, Government of the HKSAR, Hong Kong SAR
Day 1 • 5 June 2017 (Mon) • Parallel Session 2 • 16:30 - 18:00

Session 2.1 - Session Organizer:
Shanghai Research Institute of Building Sciences
Mainland China Session - Green Building Design and Technological Challenges of Eco Skyscraper in China

Session Chair: Xu Guang
Chief Engineer, Shanghai Research Institute of Building Sciences (Group) Co., Ltd.

Evaluation of Green Skyscraper Buildings in China
Shinroko Long, Deputy Director, Center for Science and Technology & Industrialisation Development, Ministry of Housing and Urban-Rural Development of the P.R. China (MORUDP)

Energy Saving Potential of all-conditioning System with Low-Grade Energy in Skyscrapers
U Zentral, Professor, School of Architecture, Tongji University.

In Pursuit of Excellence: Sustainable High-performance Skyscrapers
SHANG Jian, Director, East China Architectural Design and Research Institute

Green Design and Facility Management Systems in Shanghai Tower
TANG Jianning, Deputy Director, Shanghai Research Institute of Building Sciences (SRIBS)

Session 2.2 - Regional Session: Turkey, Greece, Malta and Egypt

Level 1 - Theatre 1

Session Chair: Wim BAKENS
Secretary General, International Council for Research and Innovation in Building and Construction

SBE16 Istanbul
Aykak ERKAN, Secretary General, Turkey ISBAI- Association of Turkish Construction Material Producers
SBE16 Thessaloniki
Akhileos TIKALOUDANIS, Associate Professor, Aristotle University of Thessaloniki
SBE16 Malta
Ruben Paul BORG, University of Malta
SBE16 Cairo
Wafaa NADIM, Architecture Program, German University Cairo, Egypt

Session 2.3 - Advanced Building Systems

Level 1 - Theatre 2

Session Chair: Lloyd Martin SCOTT
Dublin Institute of Technology, Ireland

Renewable Energy Retrofit for Existing Buildings by Advanced Fan Technology: Electronically Commutated Motor Plug-in
Isaac TSANG Shu-chung, Assistant Building Services Manager, Swire Properties Ltd., Hong Kong SAR

Low Temperature Radiant Cooling Design and Application in Tropical/Sub-Tropical Countries
Paul CHAN Yim-cheung, Director, Wong & Ouyang (Building Services) Ltd., Hong Kong SAR

Sustainable and Demystifying The Energy Use Conversation to Support The Net-Zero Challenge
Birgit SMID, Diamond Schmitt Architects, Canada

Building Energy Saving Strategy in Hong Kong – “Building 2050” – Plug-in
KAM Green Hing, Electrical and Mechanical Services Department, Government of the Hong Kong SAR

How Sustainable are the Quality Control Procedures for Constructions in Europe?
Prits MEIJLS, Senior Researcher, TU Delft / Faculty of Architecture and the Built Environment, The Netherlands

Policy Scenarios of Zero Carbon Building for Hong Kong: To Survive or To Lead?
PAW Wai, The University of Hong Kong, Hong Kong SAR

A Discussion on the Benefits of Environment Performance of the Promotion of Kaohsiung Green Building Specialsity
YHAO Chien-chi, Director General, Bureau of Public Works, Kaohsiung City Government, Taiwan

Session 2.4 - Policies for High-Performance Green Buildings (1)

Level 2 - S221

Session Chair: Richard LORCH
Editor-in-Chief, “Building Research & Information” Journal, United Kingdom

Demystifying and Demystifying The Energy Use Conversation to Support The Net-Zero Challenge
Birgit SMID, Diamond Schmitt Architects, Canada

Building Energy Saving Strategy in Hong Kong – “Building 2050” – Plug-in
KAM Green Hing, Electrical and Mechanical Services Department, Government of the Hong Kong SAR

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YHAO Chien-chi, Director General, Bureau of Public Works, Kaohsiung City Government, Taiwan

Session 2.5 - SBE Assessments - Green Neighbourhoods (2)

Level 2 - S222

Session Chair: John NG
Chairperson, BEAM Society Limited; Honorary Professor, Department of Urban Planning and Design, University of Hong Kong, Hong Kong SAR

Sustainable Design and Facility Management Systems in Shanghai Tower
TANG Jianning, Deputy Director, Shanghai Research Institute of Building Sciences (SRIBS)

Sessions 2.6 - Innovations Driving for Greener Policies and Standards - Carbon Assessment

Level 2 - S223

Session Chair: Otto POON
Chairman, ATAL Engineering Ltd., Hong Kong SAR

CHAO Tao-chao, Assistant Professor, Hong Kong University, Taiwan

Building Life Cycle Carbon Emissions: A Review
TANG Jianning, The University of Hong Kong, Hong Kong SAR

How Carbon Metric Standard Could Facilitate Innovation for Reduction of GHG Emissions from Buildings?
TETSU YASHIRO, The University of Tokyo, Japan

Climate Action Planning Strategies for Achieving Carbon Neutrality and Net Zero Campus Operation
YU JOO-YONG, Director of Sustainability & Energy, Legal Architects, United States of America

Session 2.7 - Session Organizer:
Swire Properties Ltd.
Deep Energy Saving and Other Innovative Green Measures for Commercial Buildings in Hong Kong, Mainland China and Overseas

Level 2 - S224 & 225

Session Chair: Benny AU
Sustainable Development Manager, Swire Properties Ltd., Hong Kong SAR

Sustainable Strategy on Deep Energy Saving and Energy Management of Property Developer
Raymond XAU, General Manager, Technical Services & Sustainable Development, Swire Properties Ltd.

Overview of Building Energy Efficiency in China and the Upcoming Trend
WEI Dongming, Building Energy Research Center, Tsinghua University, Beijing

Cost & Value: Multiple Benefits of Green Commercial Buildings in Western Countries (Philippines, China/Architectural Science, Weit School of Architecture, Cardiff University, United Kingdom; Visiting Research Professor, Faculty of Architecture, University of Hong Kong, Hong Kong SAR)

YKKS High Efficiency Building - Radiant Central Cooling Outside and Inside
KIM DISTED, General Manager, M&E Design Department of NIKKEN SEIKI K.K. Japan

Building Energy Performance Synergy from Integrated Design, Construction and Operation: Case Study on a High Performance Grade A Office - Swire One ToKoo Place
Winston CHING, Director of Building Sustainability, Hong Kong SAR

Session 2.8 - Innovations for Occupant Wellbeing (2)

Level 4 - S426 & 427

Session Chair: Srinath PERERA
Professor of Built Built Environment & Construction Management, Western Sydney University, Australia

Sustainable Strategies on Deep Energy Saving and Energy Management of Property Developer
Raymond XAU, General Manager, Technical Services & Sustainable Development, Swire Properties Ltd.

Overview of Building Energy Efficiency in China and the Upcoming Trend
WEI Dongming, Building Energy Research Center, Tsinghua University, Beijing

Cost & Value: Multiple Benefits of Green Commercial Buildings in Western Countries (Philippines, China/Architectural Science, Weit School of Architecture, Cardiff University, United Kingdom; Visiting Research Professor, Faculty of Architecture, University of Hong Kong, Hong Kong SAR)

YKKS High Efficiency Building - Radiant Central Cooling Outside and Inside
KIM DISTED, General Manager, M&E Design Department of NIKKEN SEIKI K.K. Japan

Building Energy Performance Synergy from Integrated Design, Construction and Operation: Case Study on a High Performance Grade A Office - Swire One ToKoo Place
Winston CHING, Director of Building Sustainability, Hong Kong SAR

Outdoor to Indoor Air Quality in Urban Environment
Zhao Li-Lei, Associate Professor, Division of Environment, The Hong Kong University of Science and Technology, Hong Kong SAR

Reshaping Long-TermSenior Care: Design Solutions to Facilitate Different Levels of Care Needs in Senior Housing - Using Hong Kong’s Latest Senior Housing as Example
TOM HUM, Cox Chartered, Ronald Leu and Partners (Hong Kong)Ltd, Hong Kong SAR

Occupant-Related Energy Use: A Pilot Office Case Study
LORCH Richard, Lighting & Building Energy Services Department, Government of the Hong Kong SAR

Health and Sustainable Living Environment - LONAS
Jean CHENG, Building Sustainability Consultant, Arup, Taiwan

WSBE17 Hong Kong
**Day 2 • 6 June 2017 (Tue) • Parallel Session 3 • 13:30 - 15:00**

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<td>GUEST SPEAKERS:</td>
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<td>Qiu Boqing, Counsellor of Counsellor’s Office of the State Council, PRC</td>
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<td>TAMQ, Ju, Professor, School of Economics and Management, Harbin Institute of Technology, (Shenzhen)</td>
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<td>ZHANG Xun, Director, Bureau of Housing &amp; Construction of Shenzhen Municipality</td>
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<td>WANG Yun, Vice President, China Vanke Co., Ltd.</td>
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<td>Kevin WQ, Managing Director, Property Institute of Shenzhen</td>
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<td>YING HUA, Associate Professor, Department of Design and Environmental Analysis, The Cornell University</td>
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<td>Thomas ABLER, Managing Director, Transverter, Professor, Building Technology and Climate Adaptation Design, Technical University of Munich</td>
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<td>George BARON, Emeritus Professor of Building Science, School of Architecture, Victoria University of Wellington, New Zealand</td>
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<td>Greg POLHORSTE, Enterprise Professor, University of Melbourne, Regional Director in Asia-Pacific, GRS, Founding Director GRS Pty Ltd</td>
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<td>Peter GUTHEE, Professor, Engineering for Sustainable Development, University of Cambridge</td>
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<td>Delamon KUHN, Head of Greening, Landscape and Tree Management Section, Government of the HKSAR</td>
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<td>Christine LUI, Under Secretary for the Environment, Government of the HKSAR</td>
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<td>Serge SALATI, President, Urban Morphology &amp; Complex Systems Institute</td>
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<td>Anne SCHLUETER, Professor, Architecture and Building Systems ETH Zurich, Principal Investigator, Future Cities Laboratory, Singapore ETH Centre</td>
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<td><strong>Session Chair: Phil JONES</strong> Chair of Architectural Science, Welsh School of Architecture, Cardiff University, United Kingdom; Visiting Research Professor, Faculty of Architecture, University of Hong Kong, Hong Kong SAR</td>
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<td>Shah ELHASS, Badker, Turkey</td>
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<td>The Application of Solid Oxide Fuel Cells in Buildings for Electricity, Heating and Cooling</td>
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<td>TANG Jie, The Hong Kong Polytechnic University, Hong Kong SAR</td>
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<td>Building and Community Energy Retrofit Heating in Wales</td>
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<td>Li Jin, Research Associate, Cardiff University, United Kingdom</td>
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<td>Geothermal District Heating Investigation of Retired Oil/Gas Wells as High-</td>
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<td>Temperature Renewable Heat Sources</td>
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<td>Guo Zhigang, Princeton University, United States of America</td>
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<td>CHENG Chih-Chuen, Dean of Design College, President of AIT, National Taiwan University of Science and Technology, Taiwan</td>
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<td>A Comparative Study on Economic Policies for Construction and Demolition Waste Management</td>
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<td>Using Supply Chain Management for Sustainable Public Procurement</td>
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<td>Zhou Ji-Wen, Chao Institute of Environmental Protection, Environmental Protection, Government of the HKSAR, Hong Kong SAR</td>
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<td>LAU Kwok-keung, Assistant Under Secretary for the Environment, Government of the HKSAR, Hong Kong SAR</td>
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<td>Energy Efficiency for a Sustainable Built Environment in Nigeria</td>
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<td>Susan GESSLER, SEPA energy &amp; resources, Australia</td>
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<td><strong>Session Chair: Sylvester Timothy WONG</strong> Vice President, Strategies + Development, Buildings + Places, City Colleges, New York</td>
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<td><strong>Session Chair: Clinton ANDREWS</strong> Professor of Urban Planning &amp; Policy Development, Rutgers University, United States of America</td>
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Session 3.9 Practices & Methodologies for Green Building Management (3)  
Level 2 - S228

**Session Chair:** Thomas LÜTZKENDORF  
Director, Centre for Real Estate, Head of Chair, Sustainable Management of Housing and Real Estate, Karlsruhe Institute of Technology, Germany

- Life Story of the Repurposed Shipping Container  
Alien LF YESIUK, Chief Architect, Architectural Services Department, Government of the HKSAR, Hong Kong SAR
- Factors Influencing Human Capability to Practice Sustainability in Facilities Management (FM) - A Review  
Pathima Srinivasan, University of Morakot, Sri Lanka
Tu MORISHITA, Assistant Professor, The University of Tokyo, Japan
- Development of WERIT and Normalization Factor for Different Operating Hours for Building Energy Intensity (BEI)  
Kevin HONG, Edgenta Energy Services PLC, Malaysia

Session 3.10 Transforming SBE Practices - Energy Management (2)  
Level 4 - S425

**Session Chair:** Tim HILL  
Research Director, Eco-business Research, Singapore

- Dynamic CO2 and accuracy modelling for predictive control  
Alexandra PANTAZARAS, National University of Singapore, Singapore
- Nano-commissioning Practice and In-depth Analysis Leading to Efficiency Optimisation on HVAC Systems: Case Study on a High-Rise Building in China  
Jiao GRI, Same Properties Ltd., Hong Kong SAR
- Study of Chiller Part-Load Values for Hong Kong and Subtropical Climate  
LI Ke-han, The Chinese University of Hong Kong, Hong Kong SAR
- Navigating the Path to Net Zero: How to Achieve Low Carbon Targets in Real Estate  
Yu MORISHITA, General Manager, Gaia Technical Research Institute Singapore, Singapore
- Optimising Energy Efficiency for a High-Rise Office Tower in Tropics  
NG Yong-kong, BNR Engineering and Trading Sdn Bhd, Malaysia

Session 3.11 BIM for Sustainability (1)  
Level 4 - S421

**Session Chair:** Paul HO  
Director, Professional Green Building Council, Hong Kong SAR

- BIM Based Deep Building Renovation Optimization for Sustainability  
HANG Lien, Associate Professor, Norwegian University of Science and Technology, Norway
- Integrating BIM for Sustainable Planning, Design, Construction and Facility Management for Hong Kong’s Public Housing Development  
Liauw CHING, Assistant Director of Housing Development and Construction, Hong Kong Housing Authority, Government of the HKSAR, Hong Kong SAR
- BIM Enabled Life Cycle Environmental Analysis for a Small Scale Zero Energy House  
Li GYIANN, School of Architecture, Tianjin University, Mainland China
- The Use of FTA (Fault Tree Analysis) to Evaluate the Contribution of BIM Platforms to the Environmental Quality on Rehabilitated Buildings  
Enrico Santos SALGADO, Federal University of Rio de Janeiro, Brazil
- Sustainable Buildings with BIM  
Peter ROUSE, Sales Manager, GRAPHISOFT Asia Ltd., Hong Kong SAR

Session 3.12 - Session Organiser: Allied Environmental Consultants Ltd.  
Emerging Practices in Sustainable Built Environment  
Level 4 - S423 & 424

**Session Chair:** Grace KWOK  
Managing Director, Allied Environmental Consultants Ltd.

- Acoustics and Lighting Design for Green Building  
Henry Chan On-kei, Associate Director, Allied Environmental Consultants Ltd.
- Diocese of Green Campus Development in Hong Kong – A Case Review of Hong Kong Management College’s Master Campus Expansion Plan  
Danny CHAN, Environmental Consultant, Allied Environmental Consultants Ltd.
- Drive towards Sustainable Development and Management: Case Study on International Commerce Centre  
Andy LIM, Senior Consultant, Allied Environmental Consultants Ltd.
- Intelligence, Collaboration, Continuity – A Case Study of Improving the Environmental Performance of an Office Building  
Liu JIAN, Assistant General Manager (Property Management), Kai Shing Management Services Ltd.
- Sustainability Strategies in Towngas Headquarters Building  
Nelson LU, Property Management Manager, The Hong Kong and China Gas Company Ltd.
Session 4.1 - Session Organiser: MENG Chong

Deputy Director, Green Building Research Centre, Chinese Society for Urban Studies, China

Day 2 • 6 June 2017

Session 4.2
International Youth Competition (2)

Level 1 - Theatre 1

Session Chair: Edward NG

Chairman, International Youth Competition Sub-committee, WSBE17 Hong Kong Scientific Committee, Professor of Architecture, School of Architecture, The Chinese University of Hong Kong, Hong Kong SAR

Presentation of 6 Shortlisted Teams

Q & A

Final Judging by International Jury Panel

Session Chair: Sivakumar PALANIAPPAN

Assistant Professor, Indian Institute of Technology Madras, India

Session 4.3
Advanced Building Systems - Energy Generation (2)

Level 1 - Theatre 2

Session Chair: Wafaa NADIM

Associate Professor, The German University in Cairo, Egypt

Energy Economic Assessment of a Building Integrated Photovoltaic (BIPV) System: A Case Study of Yasar University, inca, Turkey

Andrzej KORZESKI, Chairman of Energy Systems Engineering Department, Yasar University, Turkey

Session Chair: Felix WONG Yat-hang

SAR

Hong Kong Scientific Committee; Professor of Architecture, School of Architecture, The Chinese University of Hong Kong, Hong Kong SAR

What are the Most Effective Drivers of Sustainable Development in the Decision Making Process

Janna Ting Ng, Mแปりnden Sustainability Engineer, Serena Jersey Consulting Engineers, Denmark

Session 4.4
Processes of High-Performance Green Buildings

Level 2 - S221

Session Chair: Ron WAKEFIELD

Head of the School of Property, Construction and Project Management (PCPM) and Deputy Pro Vice Chancellor International, RMIT University, Australia

Session 4.5
Performance Review of Green Buildings (2)

Level 2 - S222

Session Chair: Lan DING

Senior Lecturer, Faculty of Built Environment, University of New South Wales, Australia

Session 4.6
Green Construction Technologies (1)

Level 2 - S223

Session Chair: Guillaume HABERT

Professor, ETH Zurich, Switzerland

Watering Type and Water Consuming Assessment of the Green Construction Fence in Taichung City, Taiwan

LeNHIN Chien-hsun, Feng Chia University, Taiwan

Low Carbon Construction Implementation in a Public Housing Development and the Implication in the Life Cycle Decision Making Tool

Pale WONG Yan-kang, Senior Environmental Consultant, AECOM Asia Co., Ltd., Hong Kong SAR

Uses of Incineration Bottom Ash for Road Construction in Singapore

Kunli LEE Yung-fai, Senior Technical Manager, Sarawak Innovation Centre, Singapore

Exploring the Relationship between Construction Phases and Sustainable Construction Principles

Aino Schütz, Professor, Architecture and Building Systems ETH Zurich, Principal Investigator, Future Cities Laboratory, Singapore; ETH Centre

Session 4.7 - Session Organiser: Swire Properties Ltd.

The Secret Ingredients of Sustainable Real Estate Development

Level 2 - S224 & 225

Session Chair: Ashley HEDGLAND

Consultant, Swire Properties Ltd.

Session Chair: Alan FOGARTY

Sustainability Partner, Cundall, Hong Kong SAR

Session 4.8
Innovative Biophilic Design for Wellbeing

Level 4 - S426 & 427

Session Chair: Wafaa NADIM

Associate Professor, The German University in Cairo, Egypt

Theme/Tools of Sustainable Urban Planning and Sustainable Building Environment

Christopher LAY, Founding Director, Ovo Partnership, Hong Kong SAR

Session Chair: Mehtap KOKUSAY, Senior Technical Manager, Sarawak Innovation Centre, Singapore

Day 1 - S101

WSBE17 Hong Kong
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<td>Transforming SBE Practices - Energy Management (3)</td>
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<td>Session 4.12</td>
<td>Healthy Building, Human Comfort &amp; Wellbeing</td>
<td>Level 4</td>
<td>S423 &amp; 424</td>
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**Session Chair: Jimmy CK TONG**
Associate East Asia Energy Skill Leader, Arup, Hong Kong SAR

**Session Chair: Clinton ANDREWS**
Professor of Urban Planning & Policy Development, Rutgers University, United States of America

**Session Chair: Paul HO**
Director, Professional Green Building Council, Hong Kong SAR

**Session Chair: Holger WALLBAUM**
Full Professor in Sustainable Building, Chalmers University of Technology, Sweden

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**Beyond Energy and Resource Efficiency: Sustainable Building in Digital Transformation**

**Energy Data Transparency Benefits to Drive Down of Energy Consumption in A Green Hotel**

**ACT-Shop - A Retro-commissioning Scheme for Existing Buildings in Hong Kong**

**Social Sustainability Certification by Using BIM**

**Community Empowerment (2)**

**PolyU Green Deck : A Catalyst for a Green and Vibrant Community**

**Healthy Buildings & Energy Performance – A Balancing Act**

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**Session 4.13**

**Session 4.14 - Session Organiser: The Hong Kong Polytechnic University**

**Session 4.15**

**Session 4.16**

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**Session 4.30**

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**Session Chair: LEUNG Man-kit**
Associate & East Asia Energy Skill Leader, Arup, Hong Kong SAR

**Session Chair: Alex LUI Chun-wan**
Chairman, Green Deck Task Force, The Hong Kong Polytechnic University, Hong Kong SAR

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**Panel Discussion**

**Wilfred LAU**
Director, Arup, Hong Kong SAR

**Esther YUNG Hiu-kwan**
The Hong Kong Polytechnic University, Hong Kong SAR

**TANG Shiu-keung**
The Hong Kong Polytechnic University, Hong Kong SAR

**Edwin CHAN**
The Hong Kong Polytechnic University, Hong Kong SAR

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**Session Chair: Clinton ANDREWS**
Professor of Urban Planning & Policy Development, Rutgers University, United States of America

**Session Chair: Paul HO**
Director, Professional Green Building Council, Hong Kong SAR

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**Session Chair: Holger WALLBAUM**
Full Professor in Sustainable Building, Chalmers University of Technology, Sweden

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**Panel Discussion**

**Zhang Cheng**
Assistant Professor, Xi’an Jiaotong-Liverpool University, Mainland China

**Lifecycle Evaluation of Building Sustainability Using BIM**

**Visualizing Embodied Impacts Using Building Information Modeling (BIM)**

**A Case Study on Industrial Building IEQ Control and Operation Performance Analysis**

**Healthy Building, Human Comfort & Wellbeing**

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**Session 4.23 & 424**

**Wellbeing**

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**Session Chair: ZHENG Cheng**
Assistant Professor, Xi’an Jiaotong-Liverpool University, Mainland China

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**Session Chair: Clinton ANDREWS**
Professor of Urban Planning & Policy Development, Rutgers University, United States of America

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Full Professor in Sustainable Building, Chalmers University of Technology, Sweden

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Chairman, Green Deck Task Force, The Hong Kong Polytechnic University, Hong Kong SAR

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**Session Chair: Clinton ANDREWS**
Professor of Urban Planning & Policy Development, Rutgers University, United States of America

**Session Chair: Holger WALLBAUM**
Full Professor in Sustainable Building, Chalmers University of Technology, Sweden
Day 3 • 7 June 2017 • Parallel Session 5 • 10:30 - 12:00

**Session 5.1 Regional Session - Canada, Brazil-Portugal, The Netherlands, Germany and Tallinn-Helsinki**
Level 1 - Convention Hall

**Session Chair:** Luis BRAGANÇA
University of Minho, Portugal

**Session 5.2 Session Organiser:**

**Sweden Green Building Council High Performance Buildings and Sustainable Neighbourhoods in Sweden**
Level 1 - Theatre 1

**Session Chair:** Bengt WÅNGREN
CEO and Founding Chairman, Sweden Green Building Council; Member of the Board, World Green Building Council

**Session 5.3 Smart Initiatives in SBE (1)**
Level 1 - Theatre 2

**Session Chair:** Natalie ESSIG
University of Applied Sciences Munich (MUAS), Germany

**Session 5.4 Deep Renovations - Policies & Standards**
Level 2 - S221

**Session Chair:** Kenneth CHAN
Director, BEAM Society Limited, Hong Kong SAR

---

**Session 5.5 SBE Assessments - Green Building Policies**
Level 2 - S222

**Session Chair:** Antonion LUPISEK
Head of Department, Architecture and the Environment, Czech Technical University, Czech Republic

**Session 5.6 Green Construction Technologies (2)**
Level 2 - S224 & S225

**Session Chair:** Andrew LEUNG
Emeritus Professor, City University of Hong Kong; China Green Building (HK) Council, Hong Kong SAR

**Session 5.7 Innovations Driving for Greener Policies and Standards - Assessment, Analysis and Modelling (1)**
Level 2 - S223

**Session Chair:** Guillaume HABERT
Professor, ETH Zurich, Switzerland

**Session 5.8 Sustainable Neighbourhoods - Case Study Review (1)**
Level 4 - S426 & S427

**Session Chair:** Ellie TANG
Head of Sustainability, New World Development Company Limited, Hong Kong SAR

---

**Session 5.9 Case Study Review (2)**
Level 1 - Plenary Hall

**Session Chair:** Kenneth CHAN
Director, BEAM Society Limited, Hong Kong SAR

---

**Session 5.10 Deep Renovations - Policies & Standards**
Level 2 - S222

**Session Chair:** Natalie ESSIG
University of Applied Sciences Munich (MUAS), Germany

**Session 5.11 Innovations Driving for Greener Policies and Standards - Assessment, Analysis and Modelling (2)**
Level 2 - S223

**Session Chair:** Guillaume HABERT
Professor, ETH Zurich, Switzerland

**Session 5.12 Sustainable Neighbourhoods - Case Study Review (2)**
Level 4 - S426 & S427

**Session Chair:** Ellie TANG
Head of Sustainability, New World Development Company Limited, Hong Kong SAR

---

**Session 5.13 Deep Renovations - Policies & Standards**
Level 2 - S222

**Session Chair:** Natalie ESSIG
University of Applied Sciences Munich (MUAS), Germany

**Session 5.14 Innovations Driving for Greener Policies and Standards - Assessment, Analysis and Modelling (3)**
Level 2 - S223

**Session Chair:** Guillaume HABERT
Professor, ETH Zurich, Switzerland

**Session 5.15 Sustainable Neighbourhoods - Case Study Review (3)**
Level 4 - S426 & S427

**Session Chair:** Ellie TANG
Head of Sustainability, New World Development Company Limited, Hong Kong SAR

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**Session 5.16 Deep Renovations - Policies & Standards**
Level 2 - S222

**Session Chair:** Natalie ESSIG
University of Applied Sciences Munich (MUAS), Germany

**Session 5.17 Innovations Driving for Greener Policies and Standards - Assessment, Analysis and Modelling (4)**
Level 2 - S223

**Session Chair:** Guillaume HABERT
Professor, ETH Zurich, Switzerland

**Session 5.18 Sustainable Neighbourhoods - Case Study Review (4)**
Level 4 - S426 & S427

**Session Chair:** Ellie TANG
Head of Sustainability, New World Development Company Limited, Hong Kong SAR

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**Session 5.19 Deep Renovations - Policies & Standards**
Level 2 - S222

**Session Chair:** Natalie ESSIG
University of Applied Sciences Munich (MUAS), Germany

**Session 5.20 Innovations Driving for Greener Policies and Standards - Assessment, Analysis and Modelling (5)**
Level 2 - S223

**Session Chair:** Guillaume HABERT
Professor, ETH Zurich, Switzerland

**Session 5.21 Sustainable Neighbourhoods - Case Study Review (5)**
Level 4 - S426 & S427

**Session Chair:** Ellie TANG
Head of Sustainability, New World Development Company Limited, Hong Kong SAR

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**Session 5.22 Deep Renovations - Policies & Standards**
Level 2 - S222

**Session Chair:** Natalie ESSIG
University of Applied Sciences Munich (MUAS), Germany

**Session 5.23 Innovations Driving for Greener Policies and Standards - Assessment, Analysis and Modelling (6)**
Level 2 - S223

**Session Chair:** Guillaume HABERT
Professor, ETH Zurich, Switzerland

**Session 5.24 Sustainable Neighbourhoods - Case Study Review (6)**
Level 4 - S426 & S427

**Session Chair:** Ellie TANG
Head of Sustainability, New World Development Company Limited, Hong Kong SAR

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**Session 5.25 Deep Renovations - Policies & Standards**
Level 2 - S222

**Session Chair:** Natalie ESSIG
University of Applied Sciences Munich (MUAS), Germany

**Session 5.26 Innovations Driving for Greener Policies and Standards - Assessment, Analysis and Modelling (7)**
Level 2 - S223

**Session Chair:** Guillaume HABERT
Professor, ETH Zurich, Switzerland

**Session 5.27 Sustainable Neighbourhoods - Case Study Review (7)**
Level 4 - S426 & S427

**Session Chair:** Ellie TANG
Head of Sustainability, New World Development Company Limited, Hong Kong SAR

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**Session 5.28 Deep Renovations - Policies & Standards**
Level 2 - S222

**Session Chair:** Natalie ESSIG
University of Applied Sciences Munich (MUAS), Germany

**Session 5.29 Innovations Driving for Greener Policies and Standards - Assessment, Analysis and Modelling (8)**
Level 2 - S223

**Session Chair:** Guillaume HABERT
Professor, ETH Zurich, Switzerland

**Session 5.30 Sustainable Neighbourhoods - Case Study Review (8)**
Level 4 - S426 & S427

**Session Chair:** Ellie TANG
Head of Sustainability, New World Development Company Limited, Hong Kong SAR

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**Session 5.31 Deep Renovations - Policies & Standards**
Level 2 - S222

**Session Chair:** Natalie ESSIG
University of Applied Sciences Munich (MUAS), Germany

**Session 5.32 Innovations Driving for Greener Policies and Standards - Assessment, Analysis and Modelling (9)**
Level 2 - S223

**Session Chair:** Guillaume HABERT
Professor, ETH Zurich, Switzerland

**Session 5.33 Sustainable Neighbourhoods - Case Study Review (9)**
Level 4 - S426 & S427

**Session Chair:** Ellie TANG
Head of Sustainability, New World Development Company Limited, Hong Kong SAR
Session Chair: Greg FOLENTE
Enterprise Professor, University of Melbourne; Regional Director in Asia-Pacific, iSBE; Founding Director, nBlue Pty Ltd

Session Chair: Andrea MORO
President, iSBE Italy, Italy

Session Chair: Saskia VAN HULTEN
Senior Consultant, W/E Consultants Sustainable Building, The Netherlands

Session Chair: Martin TAM Tin-fong
Bamboo for The 21st Century

Session Chair: SHIN Sungwoo
Director, Green Mark Department for New Development, Building and Construction Authority, South Korea

Session Chair: Selvam VALLIAPPAN
Senior Manager, Green Building Research, Built Environment Research and Innovation Institute (BERII), Building and Construction Authority, Singapore

Session Chair: Alexander PASSER
Assistant Professor, Graz University of Technology, Austria

Session Chair: Andrea KLINGE
Naturally Ventilated Earth Timber Constructions

Session Chair: Martin TAM Tin-fong
Bamboo for The 21st Century

Session Chair: Andrea MORO
President, iSBE Italy, Italy

Session Chair: Alexandra ABANY
The Effects of Hong Kong Building Environment Assessment Method (HK-BEAM) Accreditation on Construction and Completion Waste Minimization

Session Chair: Magnus ÖSTERBRING
Evaluation Methodologies for Architectural Transformation Towards Sustainable Buildings: A Case Study of Austria

Session Chair: Andrea MORO
President, iSBE Italy, Italy

Session Chair: Martin TAM Tin-fong
Bamboo for The 21st Century

Session Chair: Alexandra ABANY
The Effects of Hong Kong Building Environment Assessment Method (HK-BEAM) Accreditation on Construction and Completion Waste Minimization

Session Chair: Martin TAM Tin-fong
Bamboo for The 21st Century

Session Chair: Martin TAM Tin-fong
Bamboo for The 21st Century
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<td>Managing Director, Kuala Lumpur Centre for Sustainable Innovation, Malaysia</td>
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<td><strong>Alexandra TERPSTRA:</strong> University Assistant, Graz University of Technology, Austria</td>
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<td><strong>finding the Value in Deep Energy Retrofit</strong></td>
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<td>James Scott BREW, Senior Sustainability Architect, Nikken Sekkei, Japan</td>
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<td><strong>Productive Green Roof</strong></td>
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<td>Matthew PRIOR, Associate Professor (Teaching), The University of Hong Kong, Hong Kong SAR</td>
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<td><strong>Sustainable Buildings - Impacts on Cash Flow and Business Case Analysis</strong></td>
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<td>Thomas LUTHARDT, Director and Head of Chair, Karlsruhe Institute of Technology, Germany</td>
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<td><strong>Business for Sustainability: Mental Incentives for the Better</strong></td>
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<td>Thomas DÖFLUX, Senior Scientist, Hochschule Luzern, Switzerland</td>
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<td>Emeritus Professor, City University of Hong Kong; China Green Building (HK) Council, Hong Kong SAR</td>
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<td><strong>Session Chair:</strong> Kevin EDMUNDS</td>
<td>Senior Manager - Sustainable Development, Hong Kong Science &amp; Technology Parks Corporation, Hong Kong SAR</td>
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### Session 6.13 - Place-making - Integrative Design Processes | Level 2 - S228 & 227

**Session Chair:** Roland ZINKERNAEL | Lund University, Sweden

**Session Chair:** Larry POON | Convenor of BEAM Plus Neighbourhood Steering Committee, Roll-out Taskforce, Hong Kong Green Building Council Ltd., Hong Kong SAR

### Session 6.14 - Session Organiser:
**Hong Kong Green Building Council BEAM Plus Neighbourhood: From Theory to Praxis** | Level 4 - S428

**Integrated Design Guidance for the Early-Phase Phase**
Laurie LOMBERG, Solair Innovation, Austria

**Responsive Design - The Innovative Approach to Create Sustainable Neighbourhoods and Cities**
Willy CHAN, CoreTeam Ltd., Hong Kong SAR

**Conceptualising Sustainable Neighbourhoods Through Collaborative Place-making**
Alexander ANDREWS, University of Oxford, United Kingdom

**A Conceptual Model of Integral Sustainable Design Framework**
William YIP, Associate, Sustainability, Leigh & Orange Ltd, Hong Kong SAR

**From Environmental to Social and Cultural Sustainability**
Peter YAM, Renard Lu & Partners (Hong Kong) Ltd., Hong Kong SAR

**BEAM Plus Neighbourhood: An Introduction**
Larry POON, Convenor of BEAM Plus Neighbourhood Steering Committee, Roll-out Taskforce, Hong Kong Green Building Council Ltd., Hong Kong SAR

**Subsidised Sale Flats Development at Pat Heung Street West**
Ada FUNG, Deputy Director of Housing (Development & Construction), Subsidised Sale Flats Development at Fat Tseung Street West, Hong Kong SAR

**Transformation of EMSD Headquarters into a Green Building**
Wingy HO, Arup, Hong Kong SAR

**West Kowloon Cultural District**
William CHAI, Chief Operating Officer, West Kowloon Cultural District Authority, Hong Kong SAR

**Lessons learnt from BEAM Plus Neighbourhood Pilot-leadung**
Larry POON, Convenor of BEAM Plus Neighbourhood Steering Committee, Roll-out Taskforce, Hong Kong Green Building Council

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**WSBE17 Hong Kong**
Day 3 • 7 June 2017 (Wed) • Parallel Session 7 • 15:10 - 16:40

Session 7.1 Education and Training for Transforming SBE
Level 4 • S428

Session Chair: Samuel KWONG
Group Sustainable Development Manager, John Swire & Sons (H.K.) Ltd., Hong Kong SAR

Private Public Partnership Energy Efficiency Assessment Program at Hong Kong Aircraft Engineering Company, Eleven Facility, China

Samuel Vinicius, Group Sustainable Development Manager, John Swire & Sons (H.K.) Ltd., Hong Kong SAR

Leveraging the Power of Story to Achieve Greater Sustainability
James Scott BREW, Senior Sustainability Architect, Nihon Sekkei, Japan

Embedding Sustainability in Higher Education Course Content: An Industry Perspective
Lloyd Barth-SCOTT, Dublin Institute of Technology, Ireland

Importance of Built Heritage for World Sustainable Built Environment
Shahid Ahmad MAJIDJ, COMSATS Institute of Information Technology, Pakistan

Developing A Conceptual Framework for Integrating Project Risk Management and Sustainability Opportunities
Timothy WISE, Queensland University of Technology, Australia

Session 7.2 - Session Organiser: iiSBE

Session Chair: Nils LARSSON
Executive Director, International Initiative for a Sustainable Built Environment

General Intro about the Process and the Idea of Predicted vs. Actual Performance and the CarTeam Protocol
Gordan SHYMKO, President, G.F. Shymko & Associates Inc., Canada

Green and Monitoring In History In Expensive Sushi Hong Kong
Antony CE CHAN, REC Engineering Co., Ltd., Hong Kong SAR

The 2014 CarTeam Evaluation of 9 Case Studies
Gordan SHYMKO, President, G.F. Shymko & Associates Inc., Canada

Current Proposal for New Canadian Work
Gordan SHYMKO, President, G.F. Shymko & Associates Inc., Canada

UNSH SFEC for SS Fundings
Jun DING, Senior Lecturer, Faculty of Built Environment, University of New South Wales, Australia

Panel Discussion

Session 7.3 Smart Initiatives in SBE (3)
Level 1 - Theatre 1

Session Chair: Vincent CHENG
Director of Building Sustainability, Arup, Hong Kong SAR

Using Advance Thermodynamics and Online Big Data Analytics to Maximize the Chiller Plant Performance
Chien ANDREWSON, Vice President, ETC Group, Macau SAR

Transforming Data into Action – Building Energy Management System to Actualize a Sustainable Built Environment
Jerwin CHEUNG Man-chit, Electrical & Mechanical Services Department, Government of the HKSAR, Hong Kong SAR

Telecommunication Infrastructure for High Performance Buildings
Philip TAI, Telecommunications Manager, Swire Properties Ltd., Hong Kong SAR

Using Big Data Analytics and Continuous Monitoring to Increase the Return of Investment (ROI) in Projects for Sustainable Building Performance
Rebel NAVARRI, Area Regional Manager, ETC Group, Macau SAR

Session 7.4 Deep Renovations - Processes & Methodologies
Level 2 - S221

Session Chair: Antonio FRATTARI
Full Professor, University of Trento, Italy

Towards a Holistic Methodology in Sustainable Remodelling: Theory, Implementation and Applications
Vasile Aspina, Department of Engineering, Aarhus University, Denmark

A Multidimensional Optimisation Approach to Refurbishment Design on a Multi-Building Scale
Claudia NADELLI, Chalmers University of Technology, Sweden

Development of Regenerative Design Principles for Building Retrofit
William James CRAFT, University of New South Wales, Australia

Passive Building: Energetic Refurbishment of a Secondary School
Antonio FRATTARI, University of Trento, Italy

Factors Affecting High Performance Building Designs in Nigeria’s Built Environment: The Architectural Perception
Abdulrasheed Hayya MUHAMMAD, Lecturer, Abubakar Tafawa Balewa University, Nigeria

Session 7.5 SBE Assessments - Practices Review
Level 2 • S222

Session Chair: Antonin LUPISEK
Head of Department, Architecture and the Environment, Czech Technical University, Czech Republic

Self-Confining Clay Concrete: A Sustainable and Innovative Process to Build with Earth
Vladkove NAHARI, Professor, ETH Zürich, Switzerland

Trend of Dynamic Clays in Green Building
KY CHIU, Director, Fai Treasures, Hong Kong SAR

Upgraded Mineral Sand fraction from NEF Bottom Ash: An Alternative Solution for the Substitution of Natural Aggregates in Concrete Application
Jacques JANNANE, IMT Lausanne, Lausanne, Switzerland

Autonomous Repair in Concrete Materials by Combination of Sodium Polysaccharides and Polypropylene Fibre - A Step towards Sustainable Infrastructure Repairs
SOFIA DE SOUZA, Federal University of Ceará, Brazil

Session 7.6 Green Construction Materials (2)
Level 2 • S224 & S225

Session Chair: Kevin EDMUNDS
Senior Manager - Sustainable Development, Hong Kong Science & Technology Parks Corporation, Hong Kong SAR

Transnational Harmonization of Built Environment Assessment Systems: the CESSA
Passport Principle
Access WORDS, President, iiSBE India R&D, India

Generating and Providing Embedded Energy and Global Warming Potential Related Information – Recommendations for Construction Product Manufacturers
Angelina HINTERBRANDNER, Grad University of Technology Austria

Discussing Sustainability in Building Construction: The Potential of Silm for Brazilian Public Bulding in Florianópolis
Wiana Santos LELAND, Federal University of Rio de Janeiro, Brazil

Assessment Tools for The Sustainability Performance of Building - Development of A Sustainability Assessment Method for Small Residential Buildings in Germany
Hendrik EISSG, University of Applied Sciences Munich, Germany

Session 7.7 Innovations Driving for Greener Policies and Standards - Smart Initiatives
Level 2 • S223

Session Chair: Shengwei WANG
Chair Professor of Building Services Engineering, The Hong Kong Polytechnic University, Hong Kong SAR

Smart Cities: Selection of Indicators for Vienna
Cristina-Eva ALVAREZ, Professor/Codirector, Laboratorio de Planejamento e Projeto, Universidade Federal de Espirito Santo, Brazil

Establishing Smart Cities for Sustainability: An Analysis of the Japanese Innovation System and Implications for Asia
Masanao YATOH, Associate Professor, City University of Hong Kong, Hong Kong SAR

PLUSDistrict: Potential of Neighbourhoods to Reduce Thermal and Electrical Load
Helmut SCHIEFLER, Professor, Ecosa Federal Institute for Materials Science and Technology, National University of Singapore, Singapore

Citylab Action: Guiding Sustainable Urban Development
Jonas LIND, Lecturer, University of Hong Kong, Hong Kong SAR

Passive Building: Energetic Refurbishment of a Secondary School
Antonio FRATTARI, University of Trento, Italy

Adaptation of Smart Initiatives in Developing Anderson Road Quarry Site Towards a Sustainable and Green Living Area
Michael LEEWING Chong-lop, Deputy Project Manager, New Territories East, I, Civil Engineering and Development Department, Government of the HKSAR, Hong Kong SAR

Session 7.8 Sustainable Neighbourhoods - Processes and Application
Level 4 • S426 & S427

Session Chair: Phil JONES
Chair of Architectural Science, Welsh School of Architecture, Cardiff University, United Kingdom: Visiting Research Professor, Faculty of Architecture, University of Hong Kong, Hong Kong SAR

Current Challenges of Urban Energy Planning in a Norwegian Municipality
Erik RIESCH, Norwegian University of Science and Technology, Norway

Citylab Action: Guiding Sustainable Urban Development
Jemma LIND, Lecturer Candidate, KTH Royal Institute of Technology, Sweden: Project Coordinator, Swedish Green Building Council, Sweden

The Break-Green Point: Impact of Urban Densification on Value Creation, Infrastructure Costs and Embodied Energy
Serge SALAT, President, Urban Morphology and Complex Systems Institute, France

Factors and Needs for Energy-efficient Refurbishment at District Level
Tanya FLOYD, Senior Principle Scientist, VTT Technical Research Centre of Finland, Finland

Passive Building Regulations and Urban Policies as Incentives for Application of District Cooling Systems in Singapore
VINH TrongHung, Chair of Architecture and Building Systems, ETZH Zürich, Switzerland

Vector: Sustainable Building Design Solutions for School and University Buildings, Tromsø, Norway
Chemvih TAN, Beckman Foundation, Belgium
### Session 7.9
**Transforming Green Market - Supply Chain**

**Level 2 - S228**

**Session Chair:** Amie SHUTTLEWORTH  
Global Head of Sustainability, Amie Shuttleworth, Cundall, Hong Kong SAR

- New Ventures? Small European Companies Entering the Chinese Sustainable Building Market  
  Christian KODD, Chairmen University of Technology, Sweden
- Sustainable Electrical and Mechanical Services - Vision with Action  
  Cedd McGuire, Senior Engineer / Business Planning, Electrical and Mechanical Services Department, Government of the HKSAR, Hong Kong SAR
- Project Manager’s Role in Sustainable Building Projects: A Case Study in Canada  
  Ricardo Fernandes LECOTTO, Architect and Sustainable Building Consultant, Faculdade de Arquitetura, Universidade de Minas Gerais, Brazil
- A Study on Green Industrial Project Construction Experience  
  Zhang Ru, Vice President - Engineering & Innovation, Butler (Shanghai) Inc., China

### Session 7.10
**Innovative Practices to Transform SBE (2)**

**Level 4 - S423 & 424**

- A Revolutionary Study Commons and University Library Extension, The Chinese University of Hong Kong  
  CHERNG Siew-mei, Associate Professor, Chair of Campus Development, The Chinese University of Hong Kong, Hong Kong SAR
- Nearly Zero-Energy Casa Home Design in Cold Climate in China  
  PUD SHUN-PING, Research Associate, Cardiff University, United Kingdom
- Preliminary Study on Natural Ventilation Efficiency in School Storied by Different Opening Patterns  
  Vu Ngoc, Assistant Professor, Shu-Te University / TSSBE (Taiwan), Taiwan
- Quantifying and Improving Environmental and Human Sustainability in Remote Region Health Clinics, Australia  
  Steve BIRRIGRAUGH, University of Canberra, Australia
- Sharing of Urbanization - Optimised Approaches through Adaptive and Sustainable Masterplanning  
  Amy NG, Associate, Arup, Hong Kong SAR

### Session 7.11
**Processes, Design, Tools and Methodologies in SBE (5)**

**Level 4 - S421**

- Measuring Sustainability in Buildings Using Construction Materials Database Based on Life Cycle Information in Turkey  
  Muhammet CAMLAR, Yasar University, Turkey
- When Digital Fabrication Provides Environmental Benefits: Study of Complex Structures  
  Isolda AGUSTÍ-JUAN, Scientific Assistant, Chair of Sustainable Construction, ETH Zurich, Switzerland
- Sustainable Building Design for Enhancement of Street Ventilation and Air Quality Improvement  
  Karl WM, The Hong Kong University of Science and Technology, AECOM Environment, Hong Kong SAR
- Applicability of Maturity Assessment for Sustainable Construction  
  Marco SCHERZ, Scientific Assistant, Chair of Sustainable Construction, ETH Zurich, Switzerland

### Session 7.12
**Multi-facet Considerations of Urban Regeneration Policies**

**Level 4 - S425**

- The Role of Stakeholders in Megacity Regeneration Decisions  
  Hassan BAKRI, University of Cambridge, United Kingdom
- Effect of Residential Tower Geometry on Urban Wind Environment  
  Rutfah THILAKARATNE, Associate Professor, Chuo College of Higher Education, Hong Kong SAR
  Sardar Masud KARIM, The University of New South Wales, Australia
- Dai Xian Zhang, A Beijing Community at The Crossroads - An Analysis About the Sustainable Update of Chinese Old Distinctive Residential Areas  
  WANG Liang, CAUPD, Mainland China

### Session 7.13
**Place-making - Practices Review**

**Level 2 - S226 & 227**

**Session Chair:** Wafaa NADIM  
Associate Professor, The German University in Cairo, Egypt

- From Icon to Community: Repositioning the Image of the Modern Mega-Tower  
  Bryant LI, Vice Chairman, Ronald Li and Partners (Hong Kong) Ltd, Hong Kong SAR
- Do We Design Our Cities?  
  Eugenio Maria FORTUNA VARES, Director – Architecture – BIM Implementation, Enzyme Apd, Hong Kong SAR
- Sustainable Residential Building Developments inorsa Neighborhood Level – From a Hong Kong Private Developer Perspective  
  Edward CHAN, Henderson Land Development Co. Ltd. Hong Kong SAR
- New Exposition of Sustainability - Linking People, Building and Community  
  Gary CHEUNG, Consultant of Building Sustainability, Arup, Hong Kong SAR
- Sustainable Workplaces in High Density of Urban Areas  
  Ryojiro TAKEDA, Architect, Takenaka Corporation, Japan; General Manager, Design, Takenaka Europe GmbH, Germany

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WSBE17 Hong Kong
EXHIBITION & BUSINESS MATCHING

• To be held alongside the Conference, the exhibition is an effective platform to identify and screen suitable business partners, potential buyers and practitioners to expedite business opportunities!
• Exhibitors range from Government Departments, Overseas Groups, Commercial Companies, Tertiary Institutions and more.

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EXHIBITORS

MAINLAND CHINA SESSIONS

With a population of 1.3 billion, China is one of the world’s fastest-growing major economies while the rapid urbanisation creates great challenges on both the sustainable built environment, as well as the health and well-being of people. The four Mainland China Sessions will focus on various aspects addressing the issues on the transformation of existing buildings, challenging technologies of super skyscraper buildings, health and well-being for better places for people, and green finance opportunity for low carbon economy development.

Exhibitor Packages
Limited Booths Remain!

The Comprehensive Scheme on Green Retrofitting and Performance Enhancement of Existing Buildings in China
Session Organiser: China Academy of Building Research (CABR)

Turning Green to Gold - Green Practices for Urbanization in China
Session Organiser: Shenzhen Green Building Association and Shenzhen Institute of Building Research (SGBA & IBR)

Green Building Design and Technological Challenges of Eco Skyscraper in China
Session Organiser: Shanghai Research Institute of Building Sciences (SRIBS)

The Development Framework and Professional Best Practices of Healthy Buildings in China
Session Organiser: Chinese Society for Urban Studies - Green Building Research Center (CSUS-GBRC)

REGIONAL SESSIONS

The four Regional Sessions will discuss the intensity and importance of the specific issues in relation to sustainability in the 20 countries which held the SBE Regional Conferences in 2016. Common challenges and differences will be identified, and the significance of current conditions, initiatives and trends will be explored.

The sessions will be presented by the 20 Regional Conference Organisers and chaired by SBE16 Conference Series Co-owners.

Southeast Europe & MENA

Americas & Europe

APAC

Europe

Turkey

Canada

Australia

Czech Republic

Greece

Brazil-Portugal

Korea

Switzerland

Egypt

Netherlands

Singapore

Ireland

United Arab Emirates

Germany

Philippines

Italy

Malta

Estonia

Mainland China

Sweden
OPENING CEREMONY (5 June 2017)

- Hon. LEUNG Chun-ying, Chief Executive, Hong Kong Special Administrative Region, and Dr QIU Baoxing, Representative of The Ministry of Housing and Urban-Rural Development & Counsellor of Counsellor’s Office will be our Guests of Honour of the Opening Ceremony
- Top leaders from the Government and the industry will gather and witness the opening of the global conference, WSBE17 Hong Kong

CLOSING CEREMONY (7 June 2017)

- Mr Eric MA, Secretary for Development, Government of the HKSAR, will be our Guest of Honour of the Closing Ceremony
- The host of the World Sustainable Built Environment Conference 2020 will be announced

INTERNATIONAL YOUTH COMPETITION (IYC)

- IYC invites imaginative ideas, projects and action plans that best demonstrate an innovative interpretation of the Conference theme and various discussion areas.
- Around 100 teams of young innovators from 25 countries have submitted their finest works to showcase their aspirations to the greater future.

NETWORKING LUNCHEON (5 June 2017)

- To be held on Conference Day 1, the Luncheon is a perfect occasion for delegates to chill out and go around meeting people from 50 countries.

GALA DINNER (6 June 2017)

- To be held on 6 Jun 2017 at the Renaissance Hong Kong Harbour View Hotel.
- Chief Secretary for Administration of Government of the HKSAR, Mr Matthew CHEUNG Kin-chung will be our Guest of Honour.
- Top leaders from the Government, property developers, architects consultancies, and other key industry players will gather and celebrate the achievements of green and sustainable developments around the globe.
Green Building Technical Visit (8 June 2017)

Tentative Time: 09:00-18:00       Fee: HK$650 per tour

Join the specially designed local green building tours to understand how signature green building projects could integrate and perform well in the unique high-rise high-density built environment of Hong Kong. You could obtain first-hand experience on the latest eco-friendly technologies and features implemented, as well as hear about their behind-the-scene stories. Pick one of the routes (Hong Kong Island / Kowloon / New Territories) for your exploration on 8 June 2017.

Core Technical Visit Location

1. CIC ZCB
   First zero carbon building in Hong Kong

TOUR 1:
Hong Kong Island Tour (2 routes)

2. Chai Wan Factory Estate conversion
   Public Housing Estate, converted from H-shaped Chai Wan Factory Building
3. Holiday Inn Express Hong Kong SoHo
   First high rise building (hotel) achieved 4-platinum or equivalent of green awards – BEAM Plus, LEED, BCA Green Mark and Green Building Design Label (4-Star)
4. Hysan Place
   BEAM Plus Final Platinum project and first LEED Platinum certified commercial vertical office building in Greater China
5. King Yin Lei
   Rare surviving example of the Chinese Renaissance style that reflects the excellence of design and construction in both Chinese and Western architecture in Hong Kong
6. PMQ
   Transformed from residential units built in 1951 into design studios, shops and offices for creative enterprises and places for organising exhibits
7. Towngas Headquarters
   First non-residential building in Hong Kong achieved the highest level of recognition under the BEAM Plus Final Assessment for existing buildings

TOUR 2:
Kowloon Tour (2 routes)

8. Kai Tak Development on 3 Muk Chui Street
   Achieved BEAM Plus Provisional Platinum rating and focused on building community, sustainability, and mixed use practical design
9. Energizing Kowloon East Office
   Hong Kong’s first low carbon temporary office building featuring a range of integrated green building technologies and features
10. Trade and Industry Tower
    Adopted series of renewable energy technologies
11. Yau Lai Estate Phase 5
    Sustainable public housing estate

TOUR 3:
New Territories Tour (2 routes)

12. Green Hub (Old Tai Po Police Station)
13. Green Hub
    (Old Tai Po Police Station)
14. Hong Kong Science Park - Phase 3c+3b & Green 18
    “Living laboratory” where the buildings are designed on sustainability principles
15. Hung Fuk Estate
    One of the first large public housing developments in Hung Shui Kiu, Hong Kong which received the Grand Award (Residential) in Green Building Award 2016
16. T • PARK
    Futuristic waste treatment facility that fires up Hong Kong’s “waste-to-energy” and resource recovery ambitions

Hong Kong Eco Tour (9 June 2017)

Tentative Time: 09:00-18:00       Fee: HK$980 per tour

21. Hong Kong Geopark Boat Tour
    Get on a chartered boat for an cruise tour around the Sai Kung harbour and the islands around, where spectacular landforms and historical village can be explored
22. Lai Chi Wo Eco and Cultural Tour
    A traditional Hakka village established as early as 1670s and being revitalised since 2013

Shenzhen Tour (9 June 2017)

Tentative Time: 09:00-18:00       Fee: HK$980 per tour

18. Shenzhen Institute of Building Research (IBR)
    A National 3-Star green building incorporating more than 40 sustainable technologies
19. Shenzhen International Low Carbon City
    A pioneer in forming a climate-friendly city
20. Tianan Cloud Park
    An industry community focusing on cloud computing, networking, smart grid and other new generation information technologies

The coexistence of urban area and natural environment is one of the uniqueness and challenges of the development of Southern China area. Join one of our tours on 9 June 2017 to either enjoy the beauty of Hong Kong’s natural environment, or experience mainland China’s fast-paced green building development in Shenzhen, the city conveniently located right next to Hong Kong.
SPONSORSHIP OPPORTUNITIES

Don’t miss the opportunity to create brand awareness and stand out from the crowd in front of the global green building community. A number of different packages are available to meet your marketing and promotional needs. Please contact us at +852 3468 7670 for more information.

Reasons to Sponsor

Reach Your Target Audience
Around 1,800 top green building advocates, policy-makers, industry practitioners and academics from all over the world will gather at WSBE17 Hong Kong. WSBE17 Hong Kong offers ample networking and relationship building opportunities in different occasions.

Build Brand Awareness
Top-notch industry professionals from 50 countries will gather at WSBE17 Hong Kong. Your presence at WSBE17 Hong Kong is a golden opportunity to further enhance brand awareness and increase your profile visibility locally and globally.

Explore Fast-growing Asian Market
Hong Kong is a regional hub for international business and a major city in China, and thus a perfect location to bring your products and services into the emerging Asia, especially mainland China market. Moreover, there will be sessions focusing on this driving engine of sustainability featuring high level speakers, which set to provide valuable insight into the trend of sustainable development of the region.

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Registries’ Information
Title: Mr Mrs Prof Dr Last Name: First Name:__________
Job Position:__________ Organisation:__________
Email:__________ Phone No:__________

Memberships
Please check the appropriate box below:
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HKGBC Membership Number:__________ BEAM Pro / BEAM Affiliate Number:__________
Contact Person
Title: Mr Mrs Prof Dr Last Name: First Name:__________
Job Position:__________ Organisation:__________
Email:__________ Phone No:__________

Additional Information
What is your organisation’s primary industry sector?
What is your primary job function?
How did you hear about WSBE17 Hong Kong?
Would you like to receive information on Business Matching opportunities for WSBE17 Hong Kong?
Would you want to appear on the official list of participants and other conference marketing collaterals?

Conference Package

Early Bird Rate (in HK$)
(On or before 30 Apr 2017)
Regular Rate (in HK$)
3-day Standard Package
- Admission to 3-day Conference & Exhibition
- Day 1 Networking Luncheon
- Coffee Breaks
- Conference Kit
$4,800 $5,800
Day 2 Lunch
$400
Day 3 Lunch
$400
Gala Dinner
$2,200 (per pax) $2,500 (per pax)

Total Fee

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