1 - 3 September 2014
Sands Expo and Convention Centre
Marina Bay Sands
Singapore

BUILD GREEN
LEAD, ENGAGE & SUSTAIN

IGBC 2014 | 1-3 SEP | Singapore

More than 1,000 delegates.
Over 30 countries.
Endless possibilities.

About the International Green Building Conference (IGBC 2014)
Organised by the Building and Construction Authority of Singapore (BCA), IGBC 2014 is the anchor event of the Singapore Green Building Week (SGBW). It will play host to international green building experts, policy-makers, academics and built environment practitioners, for a congregation of ideas, collaboration and learning, to achieve a shared vision of a greener planet through the green building movement.

Some of the world’s fastest growing cities are in Asia, and they require green building solutions, tangible ones.
Meet and discuss green building solutions policies and plans with thought leaders, policy-makers and key government officials from several growth markets. Hear from academia on the latest research findings.
Engage and open up to new possibilities with real estate developers, architects, engineers, builders and green building professionals.
Create opportunities with more than 1,000 participants from over 30 countries at IGBC 2014.

Organiser

Strategic Partners

Co-located Events

Building and Construction Authority

SINGAPORE GREEN BUILDING COUNCIL

Reed Exhibitions

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### Programme Schedule (as of 6 June 2014)

**1 September 2014, Monday**

| AM | **IGBC / BEX Joint Opening Ceremony 2014**  
Guest of Honor:  
Mr Khaw Boon Wan  
Minister for National Development, Singapore |
| --- | --- |
| | **Leadership Plenary Session**  
*Stephen Selkowitz*, Senior Advisor, Building Science & Windows and Envelope Group Leader, Building Technology and Urban Systems Department, Lawrence Berkeley National Laboratory  
*Prof Bertil Andersson*, President, Nanyang Technological University (Invited) |
| | **NETWORKING TEA BREAK** |
| AM | **SUSTAIN NETWORK** |
| PM | **NETWORKING TEA BREAK** |
| | **Track 1.1: GLOBAL GREEN BUILDING TRENDS**  
- *Dr Peter Graham*, Executive Director, Global Buildings Performance Network  
*From Energy Saving Ordinance to Green Building Rating - Lessons Learnt from Germany*  
- *Dr Runa Hellwig*, Director, Solar and Energy Efficient Buildings Cluster, Solar Energy Research Institute of Singapore  
*Green BIM Sparking Innovation in AEC Industry of China*  
- *Richard Li*, Director, AEC Sales, Autodesk  
- *Romilly Madew*, Chief Executive Green Building Council of Australia |
| | **Track 1.2: MANAGING GREEN FACILITIES**  
- *Ho Chee Kit*, Director, DTZ  
*Innovation, Comfort, Community: High Hopes for Low Carbon*  
- *Lewis Lam*, Assistant General Manager, Property Management, Keppel Land Limited  
*Influencing Building Occupiers on Sustainability*  
- *Lim Tow Fok*, General Manager of Property Management & Knowledge Management, Keppel Land Limited  
*Optimizing Energy Efficiency Of Buildings By Retrofitting Chiller Plants*  
- *Anthony Goh*, Senior Vice President, Property & Facilities Management Division, City Development Limited |
| | **Track 1.3: INNOVATIVE GREEN BUILDING DESIGNS**  
*Urban Sustainability Revolution – Engaging Environment, Systems and People*  
- *Luke Leung*, Director, Sustainable Engineering Studio, Skidmore, Owings & Merrill LLP (SOM)  
*Deriving Form: Energy and Environmental Analysis for Planning Asia's Existing and Emerging Cities*  
- *Sean Quinn*, Head, Sustainable Design, SOM  
*Information Technology Application in Green Building Construction: Usage of BIM and Information Technology based on Actual Project Explanation and Value*  
- *Dr Robert Yuan*, Executive Director & Vice President, Glodon International  
*Ma Yansong*, Founder, MAD Architects (Invited) |
| | **Track 2.1: FINANCING GREEN BUILDING DEVELOPMENT**  
*Innovation in Energy Efficiency Financing*  
- *Dr Steven Fawkes*, Director, EnergyPro  
*Green Building Financing: A DFI Perspective*  
- *Geoffrey Tan*, Managing Director, Structured Finance, Overseas Private Investment Corporation (USA)  
- *Dr Wang Xiaodong*, Senior Energy Specialist, East Asia & Pacific region, World Bank |
| | **Track 2.2: ENHANCING OCCUPANT WELL BEING**  
*Economic Incentive for Improving Indoor Environmental Quality*  
- *Prof Pawel Wargocki*, Associate Research Professor, International Centre for Indoor Environment and Energy, Technical University of Denmark  
*Into the Light: Recent Progress of SLTC Development and SinBerBEST’s Lighting Research*  
- *Dr Chien Szu-Cheng*, Research Fellow, Berkeley Education Alliance for Research in Singapore (BEARS) center |
| | **Track 2.3: PROVEN GREEN BUILDING PERFORMANCE**  
*Trends Toward Ultra-Efficient Accountable Building Performance in US*  
- *Thomas Hartman*, Principal, The Hartman Company  
*An Asia Approach to Energy Efficiency on Buildings*  
- *Lee Eng Lock*, Technical Director, Trane  
*The World’s Greenest Buildings*  
- *Ulf Meyer*, Founder, Architektur und Text  
*BCA Building Energy Benchmarking Report 2014*  
- *Building and Construction Authority* |
| | **Exclusive Networking Session by Diamond Sponsor, Mitsubishi Electric (By Invitation Only)**  
*IGBC Welcome Reception***

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*Open for GMM/GMFM/GMP only. Letters of attendance will be issued and eligible for fulfilling refresher training requirement.  
**For the latest programme schedule, visit www.sgbw.com.sg/programme. Programme is subject to further refinements.*
**Spotlight Session**

*Shigeru Ban*, Architect, Shigeru Ban Architects (Invited) *Pritzker Prize Winner 2014*

*Andrew Grant*, Founder and Director, Grant Associates

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**Programme Schedule** *(as of 6 June 2014)*

**2 September 2014, Tuesday**

**AM**

**Track 3.1: REGIONAL GREEN BUILDING UPDATE**

*LEAD*

- World Green Building Council—Asia Pacific Network (WGBC-APN) update on Regional Green Building
  - This session examines the green building movement in the Asia-Pacific region and discusses how collaboration is necessary to connect the industry with best practice across the region, as well as the role that strong industry networks play in shaping government policy.

**Track 3.2: SUCCESSFUL GREEN POLICIES AND PROGRAMMES**

*ENGAGE*

  - *Lisa Bate*, Managing Principal, Shanghai & Executive Vice President, Asia, B+H Architects
- Energy Efficiency in Buildings – Scale up Implementation
  - *Constant van Aerschot*, Executive Director, Singapore BCSD, World Business Council for Sustainable Development
- Developing and Implementing Green Building in East Africa
  - *Farizan d’Avezac de Moran*, Senior Partner, GreenA Consultants

**Track 3.3: CUTTING-EDGE GREEN BUILDING TECHNOLOGIES**

*SUSTAIN*

- Innovative Solutions for Building Technologies: Emerging Technologies, Grid Integration and Systems Level Energy Efficiency Opportunities
  - *Cindy Regnier*, FLEXLAB Executive Manager, Leader-Commercial Building Systems, Lawrence Berkeley National Laboratory
- Development of Intelligent Green Building in Taiwan
  - *Dr Chiung-yu Chiu*, Deputy Secretary General, Taiwan Green Building Council
- The New Generation of Smart Buildings - Grid Corresponding Energy Demand in Smart Grids
  - *Prof Rolf Buschmann*, Managing Director, EnEd

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**PM**

**Networking Lunch**

*Refresher Training for Green Mark Specialists by Building and Construction Authority*

- *Tech-talks or Specialist talks @ Exhibition Area*

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**AM**

**Track 4.1: EXEMPLARY GREEN BUILDING DESIGNS**

*LEAD*

- Super Green Building in the Center of Tokyo, SHIMIZU Corporation Headquarters
  - *Kazuo Kobayashi*, Chief Architect, Shimizu Corporation
- Sustainable Prototypes for Green Buildings
  - *Dr Uma Maheswaran*, Vice President & Head, Sustainability Unit, Jurong Consultants
- Beijing Green Building Demonstration Park Visitors Centre – Integrated Passive and Active Solutions for a BREEM Outstanding Design
  - *Ian Bogle*, Founder, Bogle Architects
- San Francisco Public Utilities Commission Headquarters – The Greenest Urban Building in the United States
  - *Charu Sharma*, Senior Associate, Landscape Architect, Stevens & Associates

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**PM**

**Track 4.2: EMPOWERING GREEN COMMUNITIES**

*ENGAGE*

- Resilience vs Sustainability – Why We Need To Focus On Community Resilience And Leave ‘Green’ Behind
  - *Digby Hall*, Sustainability Leader - NSW, Aurecon
- Sustainable Design, Construction and Development for Healthy Community Living and Healthcare Facilities in Singapore
  - *Lau Joo Ming*, Senior Advisor, Housing and Development Board
- Creating Places for People
  - *Thirukumarman Jallendran*, Head of Sustainability, Asia, Lend Lease

**Track 4.3: INNOVATIVE GREEN BUILDING MATERIALS**

*SUSTAIN*

- Singapore’s Sustainable Construction Practices and Focus
  - *Building and Construction Authority*
- In the Grove: A Great Mass Timber Disruption for Singapore
  - *Cheong Yew Kee*, Principal, 2B Architects
- Findings in Green Wall Studies: Reducing Air Conditioning Loading with Proper Green Planning
  - *Zac Toh*, GWS Team Head, Chop Ching Hin
  - *Dr Sujit Ghosh*, Managing Director and CEO, Holcim Singapore (Invited)

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**Closing Plenary**

*Mark Carroll*, Senior Partner, Renzo Piano Building Workshop

*Alistair Guthrie*, Global Sustainable Buildings Design Leader, Arup

*Dr John Keung*, Chief Executive Officer, Building and Construction Authority

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* Open for GMM/GMF/GMP only. Letters of attendance will be issued and eligible for fulfilling refresher training requirement.

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**Programme Schedule**  
(as of 6 June 2014)

**3 September 2014, Wednesday**

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<tr>
<th>AM</th>
<th>Workshop 1: DIRECTIONS FOR GM/ND V5 AND GM/EB V4</th>
<th>Student Workshop: ENGAGEMENT WORKSHOP FOR TERTIARY STUDENTS</th>
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<tr>
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<td>• Building and Construction Authority</td>
<td>• Prof Claude Guet (Chairman), Visiting Professor, Energy Research Institute @ Nanyang Technological University</td>
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<td>• Cindy Regnier, FLEXLAB Executive Manager, Leader-Commercial Building Systems, Lawrence Berkeley National Laboratory</td>
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<td>• Luke Leung, Director, Sustainable Engineering Studio, Skidmore, Owings &amp; Merrill LLP</td>
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**NETWORKING TEA BREAK**

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<th>AM</th>
<th>Workshop 2: BUILDING PERFORMANCE SIMULATION AND OPTIMISATION</th>
<th>Workshop 3: SOLAR PV – TECHNOLOGY, APPLICATION, AND ECONOMIC</th>
<th>Workshop 4: HIGH PERFORMANCE FAÇADES IN THE TROPICS</th>
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|    | • Prof Bert Blocken, Chair of Building and Urban Physics, Department of the Built Environment, Eindhoven University of Technology | • Samridh Goyal, Founder & Chief Executive Officer, Solar Horizon  
• Christophe Inglin, Managing Director, Phoenix Solar  
• David Fullbrook, Senior Consultant, DNV GL | • Prof Chou Siaw Kiang, Executive Director, Energy Studies Institute, National University of Singapore  
• Mathieu Meur, Managing Director, Meinhardt Façade Technology |
|    | • Dr Poh Hee Joo, Research Scientist & Capability Group Manager, Institute of High Performance Computing (IHF) |                                               |                                               |

**Green Mark Tours (some sites are highlighted below)**

| AM | Daikin Air-Conditioning Building  
Green Mark Platinum Existing Non-Residential Building | Mapletree Business City  
Green Mark Platinum Existing Non-Residential Building | Ocean Financial Centre  
Green Mark Platinum New Non-Residential Building | CDL Green Gallery @ SBG Heritage Museum  
Green Mark Platinum New Non-Residential Building | Credit Suisse Office  
Green Mark Platinum Office Interior |
|----|---------------------------------------------------|--------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|

**Highlights**

**BCA Breakfast Talk for CEOs (By Invitation Only)**

Over 200 CEOs, Senior Management and future C-suites from major developers, building owners, valuers, leasing executives and building tenants will gather at the “BCA Breakfast Talk for CEOs” on 3 Sep 2014 to catalyse a change in modus operandi through sustainable energy consumption behaviour and practices.

The event will be graced by Mr Lee Yi Shyan, Senior Minister of State for Ministry of National Development and Ministry of Trade and Industry, with key prominent speakers from the built environment to share their valuable insights; and engage in constructive discourse over initiatives that businesses can adopt to reap both profits and environmental benefits.

**Tech-talks or Specialist talks @ Exhibition Area**

**DAY 1**

**LIGHTING**

The Internet of Things and Intelligent Buildings  
– Forward-Looking Strategies for Saving Energy, Improving Space Utilisation and Running an Occupant-Responsive Building  
• Brent Baekkestein, Director, Global Markets, Redwood Systems (a CommScope company)  
iLightUp: An Exploration of Novel Lighting Solution in Tropics  
• Edwin Chan, Research Engineer, Berkeley Education Alliance for Research in Singapore (BEARS) Center

**INNOVATIVE MATERIALS**

An Innovative Way of Energy Efficient Cooling Based on Carbon Technology  
• Matthieu Neth, Managing Director, Technology & Operation, SGL Lindner GmbH & Co. KG

**DAY 2**

**SMART BUILDING**

The Internet of Buildings™: The Fully-Converged Smart Buildings of the Future  
• Sudhi Ranjan Sinha, General Manager & Managing Director, Centre of Excellence in Engineering, Building Efficiency Asia, Johnson Controls

**SUSTAINABLE CONSTRUCTION**

A Scientific Approach to Green Construction  
• Rosana Wong, Executive Director, Yau Lee Holdings

**Passive Cooling Effects of Water Retention Ceramics for Buildings and Cities**  
• Dr Hiroki Maenami, Senior Expert, LIXIL Corporation

For the latest programme schedule, visit [www.sgbw.com.sg/programme](http://www.sgbw.com.sg/programme). Programme is subject to further refinements.
Speakers Highlights

Plenary Speakers

Dr John Keung, Chief Executive Officer, Building and Construction Authority (Singapore)
Dr John Keung was named one of the Top 25 Newsmakers in 2013 by Engineering News-Record (ENR), a US-based magazine, for guiding Singapore as a leader in sustainable design and construction and was awarded the Public Administration Medal (Gold) in 2011 by the Singapore Government. He held many senior management positions at the Ministry of National Development, the Housing and Development Board (HDB) and the Urban Redevelopment Authority (URA). He is also an Adjunct Professor in Urban Planning at the National University of Singapore.

Stephen Selkowitz, Senior Advisor, Building Science & Windows and Envelope Group Leader, Building Technology and Urban Systems Department, Lawrence Berkeley National Laboratory (USA)
As an internationally recognised expert on window technologies, façade systems and daylighting, Stephen Selkowitz collaborates with R&D teams worldwide. At LBNL, he leads a multidisciplinary team of 40 material scientists, physicists, engineers and architects in the development and demonstration of energy efficient technologies, systems, processes and tools. This year in April, he won ENR's 49th Award of Excellence, its highest honour, for inspiring a green building research revolution triggered by the construction of FLEXLAB where he is the Principal Investigator.

Mark Carroll, Partner, Renzo Piano Building Workshop (Italy)
With over 32 years at RPBW, Mark has overseen projects including Aquarium and Nave Italia in Genova; the Business Center and Heliport for the Fiat Lingotto Factory, Aurora Place in Sydney; The High Museum in Atlanta; the new California Academy of Science in San Francisco; and the Kimbell Art Museum expansion in Fort Worth. In 2013, he received the Architecture Alumni Achievement Award from his alma mater, the Clemson University of South Carolina.

Alistair Guthrie, Global Sustainable Buildings Design Leader, Arup (UK)
Alistair Guthrie has been involved in the design of arts and culture, education, commercial and transport buildings worldwide with expertise in the application of building physics and micro climate design. His 30 years of collaboration with Renzo Piano Building Workshop includes projects such as the Menil Collection and Kimbell Museum in Texas, the National Performing Arts and Library Complex in Athens and the LEED Platinum rated California Academy of Sciences.

Industry Experts

Singapore

Ho Chee Kit
Director
DTZ

Dr Uma Maheswaran
Vice President & Head
Sustainability Unit
Jurong Consultants

Lee Eng Lock
Technical Director
Trane

Dr Poh Hee Joo
Research Scientist & Capability Group Manager
Institute of High Performance Computing (IHPC)

APAC

Dr Wang Xiaodong
Senior Energy Specialist
East Asia & Pacific (EAP) region
World Bank (China)

Romilly Madew
Chief Executive
Green Building Council of Australia

North America

Lisa Bate
Managing Principal, Shanghai & Executive Vice President, Asia
B+H Architects (Canada)

Thomas Hartman
Principal
The Hartman Company (USA)

Cindy Regnier
FLEXLAB Executive Manager & Leader – Commercial Building Systems
Lawrence Berkeley National Laboratory (USA)

Luke Leung
Director
Sustainable Engineering Studio
Skidmore, Owings & Merrill LLP (USA)
Speakers Highlights

Industry Experts

**Dr Peter Graham**
Executive Director
Global Buildings Performance Network (France)

**Professor Pawel Wargocki**
Associate Research Professor
International Centre for Indoor Environment and Energy
Technical University of Denmark (Denmark)

**Bert Blocken**
Chair of Building and Urban Physics
Department of the Built Environment
Eindhoven University of Technology (Netherlands)

Invited Speakers

- **Shigeru Ban**, Architect, Shigeru Ban Architects (Japan), Pritzker Prize Winner 2014
- **Prof Bertil Andersson**, President, Nanyang Technological University (Singapore)

Organiser

The Building and Construction Authority of Singapore champions the development of an excellent built environment in Singapore. BCA’s mission is to shape a safe, high quality, sustainable and friendly built environment, as these are the four elements where BCA has significant influence. In doing so, it aims to differentiate Singapore’s built environment from those of other cities and contribute to a better quality of life for everyone in Singapore. Hence its vision is to have “a future-ready built environment for Singapore, our distinctive global city.” Together with its education and research arm, the BCA Academy of The Built Environment, BCA works closely with its industrial players to develop skills and expertise that help shape the best built environment in Singapore.

Co-located Events

**BEX Asia** is Southeast Asia’s premier business exhibition for the sustainable built environment. It provides a one-stop sourcing solution for cutting-edge technologies in building design and architecture for the future of greener communities. It is an event that enhances your insights and competitive edge into the world of Build Green. BEX Asia brings together skilled professionals, key industry practitioners, speciers and buyers from the region, to network and create business opportunities to build greener communities for a greener future. BEX Asia will be co-located with the exhibitions, **designinteriors 2014** and **Lighting Asia**.

Venue and Travel

**Official Venue:**
Sands Expo and Convention Centre, Marina Bay Sands
10 Bayfront Avenue
Singapore 018956

For more information, visit:
http://www.sgbw.com.sg/conference-venue

**Our Official Travel Agent can assist you with your accommodation and/or travel needs.**

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<th>Travel Agency</th>
<th>Tel</th>
<th>Fax</th>
<th>Email Address</th>
<th>Contact Person</th>
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<td><a href="mailto:inbound@changirec.com">inbound@changirec.com</a></td>
<td>Mr. Ariel Padilla</td>
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For more information:

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  Tel: +65 6325 5028
  Email: eddy_susilo@bca.gov.sg

- **Mr Benjamin Huang**
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  Building and Construction Authority
  Tel: +65 6325 5084
  Email: benjamin_huang@bca.gov.sg

On Exhibition:

- **Project Management**
  Ms Louise Chua
  Reed Exhibitions
  Tel: +65 6780 4653
  Fax: +65 6588 3832
  Email: kules.chua@reedexopo.com.sg
REGISTRATION FORM

Please complete all sections of this form and attention it to the Accounts Receivable Executive by fax to secured fax number +65 6588 3808. For multiple registrations, please make copies of this form. For enquiries, please contact Ms Gladys Heng at Tel: +65 6780 4658

CONTACT DETAILS

Please ensure all fields can be clearly seen so that we can process your registration promptly.

□ Mr □ Mrs □ Ms □ Mdm □ Dr □ Others (please specify: ____________)

Management Level: □ Senior □ Middle □ Junior

First Name: ___________ Last Name: ___________

Job Title: ___________ Organisation: ___________

Address: ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, ___________, 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