A Special Invitation by the SGBC
Executive Director

Recent years have seen significant developments in energy efficient innovation in space cooling strategies. Passive displacement ventilation (PDV) and Under-floor Air Distribution System (UFAD), for instance, are able to provide energy-efficient cooling for high volume spaces such as multi-purpose hall. MOM Service Center at Bendemeer is the first office building in Singapore to use PDV and UFAD.

Strides made in energy efficient innovation have led to chilled beams being used, where radiant and convective cooling, instead of ducted chilled air, cool the laboratory facilities for Campus for Research Excellence and Technology Enterprise at National Research Foundation.

We can achieve even a greater energy efficiency if we continue to be innovative. Gardens by the Bay, employs thermally stratified cooling for the Biomes. To create sustainable energy cycle, it uses combined heat power system (CHP) to generate 12 per cent of total energy required, to power the cooling for the two massive climate-controlled Biomes in the Gardens by Bay.

To keep you abreast of new, cutting-edge technologies and innovations in energy efficiency in space cooling technologies, we have lined up outstanding speakers and experts from Singapore and other countries to share their insights, experiences and case studies. Details are attached.

We invite you to join us at IGBC 2012, from 9 -12 October 2012.

Best regards,

[Signature]

Mr Tan Tian Chong
Executive Director
Singapore Green Building Council
IGBC 2012 CONFERENCE HIGHLIGHTS ON CUTTING-EDGE TECHNOLOGIES FOR SPACE COOLING

Combined Heat Power system (CHP) to power up the two massive climate-controlled Biomes in the Gardens by the Bay

Passive Displacement Ventilation (PDV) and Under-floor Air Distribution System (UFAD) for high volume spaces in MOM@Bendemeer Service Centre

Chilled Beams for radiant/convective cooling for laboratories at Campus for Research Excellence and Technological Enterprise (CREATE)

The four football sized Biomes tap on renewable energy to provide cool and dry air all year round at the Gardens by the Bay

MOM@Bendemeer Service Centre is the first Singapore office building to use PDV and UFAD

Chilled beams replacing the ducted chilled air supply to provide space cooling for CREATE

LEARN FROM THE EXPERTS

Mr Lee Eng Lock
Technical consultant, Trane, Southeast Asia, and 2012 Champion of Energy Efficiency in Buildings Award American Council for an Energy-efficient Economy (ACEEE)

Er. Tay Cher Seng
Managing Director, Nattflow Pte Ltd
BCA-SGBC Green Individual Award (Green Innovator) 2012
ASEAN Energy Award Winner

Mr Lee Eng Lock, the 2012 Champion of Energy Efficiency in Buildings Award by ACEEE, as well as Er. Tay Cher Seng, 2012 ASEAN Energy Award Winner and BCA-SGBC Green Individual Award (Green Innovator) are the award-winning experts on energy-efficient ACMV and PDV.

Learn from Mr. Lee how to optimize the chiller plant efficiency and Er. Tay on the system performance evaluation and design of PDV.
ENERGY-EFFICIENT INNOVATIONS

- Innovations in ACMV Solutions Track
  The latest research findings on measurement and verification of variable refrigerant flow (VRF) unitary air-conditioners, and how heat pipe technology could address dehumidification to reduce air-conditioning load in ACMV.

- Innovations in Lighting Solutions Track
  The state-of-the-art development in solid-state lighting, and how Nanoflex could help reduce lighting power budget of the installed fittings for both new and retrofit buildings.

THE FIRST CARBON MANAGEMENT TOOLS FOR BUILDING SECTOR

- 3-in-1 Carbon Management Workshop
  To evaluate embodied and operational carbon for low carbon buildings, including carbon emissions for new non-residential buildings assessed by Green Mark Version 4; embodied carbon calculator using Life-cycle approach & carbon footprint of industrial buildings through BIM.

GREEN MARK AND INTEGRATED DESIGN OPTIMIZATION WORKSHOPS

- Workshops on Design Optimization Tools and Strategies
  Wind flow and Microclimate Optimisation, Integrating BIM into Sustainable Design Process and Designing for Energy Efficiency (DEE) Performance for Green Mark tools.

- Green Mark (New Buildings) Version 4 and (Existing Buildings) Version 3
  Update on the revised criteria on both Green Mark versions in line with the requirement for owners to conduct the three-yearly audit on their building cooling systems.
Register now at Early Bird rates
This conference is accredited under Professional Engineers Board’s CPD Programme (18PDUs) and BOA (6 CPDs)

<table>
<thead>
<tr>
<th>Package</th>
<th>Early Bird Rates</th>
<th>Normal rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Programme</td>
<td>S$720</td>
<td>S$900</td>
</tr>
<tr>
<td>(Conference &amp; Workshops)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daily Pass</td>
<td>S$320</td>
<td>S$400</td>
</tr>
<tr>
<td>Green Tour</td>
<td>S$300 (per route)</td>
<td></td>
</tr>
</tbody>
</table>

For registration and more information please email us at igbc@reedexpo.com.sg or reach us at +65 6780 4586

To find out the latest updates on the conference programme, please click HERE
Green Tour – Eco Sites

A tour of exemplary projects will form part of IGBC 2012. Eco-tour sites include Gardens by the Bay, National University of Singapore (NUS) University Town, CleanTech One (CTO), Rolls-Royce Seletar Campus, National Institute of Education, McDonalds at Jurong Central Park, Woh Hup Building, United World College (UWC) and etc...

Click [HERE](#) for a complete list of Eco Sites.

About Singapore Green Building Council

The mission of SGBC is to propel the Singapore building and construction industry towards environmental sustainability. SGBC received the Established Member status from the World Green Building Council in March 2010.

Over a short span of three years, SGBC membership has expanded by 260% to 370 members and this has helped to elevate the profile of Singapore Green Building Product (SGBP) Certification Scheme. In addition, SGBC has also successfully launched a new Green Services Accreditation Scheme to promote best environmental practices in the industry. The three focus areas of SGBC are:

1. Profile Singapore as a leading Sustainable Hub in the tropics
2. Enhance Professionalism and Knowledge in Sustainable Development
3. Dedicated Certification Body for Green Building-related Products and Services

About BEX Asia

BEX Asia 2012 will be held alongside IGBC 2012. BEX Asia is Southeast Asia’s premier business platform for the green building and construction industry. IGBC 2012 delegates can attend the dedicated trade exhibition that focuses on BUILD GREEN featuring eco-friendly, energy efficiency building materials, design and architecture. It incorporates critical content that enhances your competitive advantage and knowledge of the BUILD GREEN sector. The event brings together industry practitioners, professionals and key buyers across the regions to learn, network and do business with Southeast Asia’s developing economies. This event is free for all trade visitors.

Click [HERE](#) to register
For enquiries or feedback, please email us at **bca_academy@bca.gov.sg**. Visit the [BCA Academy's website](#) now for other seminars/courses details.