

WE SHAPE A SAFE, HIGH QUALITY, SUSTAINABLE AND FRIENDLY BUILT ENVIRONMENT | ISSUE 03/APR—MAY 2012





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SHAPING A FRIENDLY BUILT ENVIRONMENT

Dear Readers,

As we continue to shape our built environment and improve construction processes and skills, we must not forget that our built environment must cater to the needs of different communities. Starting from day one at the planning phase, we should ensure that our building infrastructure facilitates the day-to-day activities of people of all ages and mobility types.

On this front, BCA has been championing the adoption of Universal Design and accessibility in the built environment through our Accessibility Masterplan. BCA's Accessibility Fund also helps owners of private buildings defray up to 80% of the cost to upgrade buildings with basic accessibility features. With a rapidly ageing population in Singapore, there is an urgent need to incorporate basic accessibility features in our existing buildings. I urge the industry and building owners to tap on the Accessibility Fund and improve accessibility in your buildings.

In addition, BCA recently conducted the second International Panel of Experts (IPE) meeting on Universal Design to review the progress of our Accessibility Masterplan and the challenges faced in driving the adoption of Universal Design. The review of the Code on Accessibility in the Built Environment is also underway with participation from various stakeholders and user representatives of Voluntary Welfare Organisations. All the recommendations and feedback received from these reviews will be considered as we chart the way forward in creating a friendly built environment for all.

Furthermore, BCA continues to share our expertise and experience in green buildings with others in the region. We are also promoting Singapore as a regional leader in green building developments, through events such as the International Green and Energy-Efficient Building Conference and projects like the Low Carbon Living Lab Building in the Tianjin Eco-City.

I encourage developers and consultants to spread the green message in Singapore, and also share your green building expertise in overseas markets. By promoting innovative, sustainable and actionable green building solutions, and the strong business case of green buildings, I hope that more organisations will come onboard to build green.

I would also like to highlight two green building related events happening in the second half of this year. The inaugural full-scale World Workplace Asia Conference and Exhibition held in July will cover topics on facilities management, global sustainable practices and real estate and property management. In October, the International Green Building Conference will focus on green building technologies, as well as cultivating Green Leadership and growing a Green Community.

The next issue of Pillars will have a full coverage on the recent BCA Awards ceremony and will feature outstanding award winners and projects. Stay tuned! P

Dr John Keung Chief Executive Officer



Pillars

PUSHING & ATT & S. UNIVERSAL DESIGN TO THE NEXT LEVEL

REVIEWING THE PROGRESS OF BCA'S **ACCESSIBILITY** MASTERPLAN AND DRIVING THE ADOPTION OF UNIVERSAL DESIGN

BCA has been working to remove barriers in the built environment. As a result, almost all commonly frequented public buildings have at least basic accessibility and nearly 90 per cent of buildings along Orchard Road provide at least basic accessibility. These include Delfi Orchard and Palais Renaissance, which had benefited from the Accessibility Fund to improve the accessibility of their buildings.

In addition, BCA is gearing to improve inclusivity in Singapore by considering to mandate the provision of more Universal Design features in new buildings and those undergoing major renovations, through revisions to the Accessibility Code. The revisions are expected to be completed by the end of this year.









ACCESSIBILITY FUND

This is a \$40 million capital incentive set up in 2007 for the upgrading of private buildings built before 1990 (except landed residential properties) to include basic accessibility features. The Fund helps building owners defray up to 80% of the construction cost for accessibility upgrading.

BCA has extended the Fund till March 2017 to encourage more owners to improve accessibility in their buildings.





Top I Active participation by various stakeholders during discussions. Attendees of the IPE meeting included major developers, architects and tertiary institutions, as well as representatives from voluntary welfare organisations such as the Singapore Association of the Visually Handicapped, Disabled People's Association, Singapore Association for the Deaf and Singapore Active Group of Elders.

SEEKING EXPERT VIEWS MOVING FORWARD

From 28–30 March 2012, the second International Panel of Experts (IPE) on Universal Design met to review the progress of BCA's Accessibility Masterplan and the challenges faced in driving the adoption of Universal Design. The meeting was a tripartite gathering, involving the public, private and people sectors, to ensure that the formulation of plans moving forward considered different concerns and needs. Key representatives from the academia were also engaged in the rigorous discussions.

DR JOHN KEUNG, CEO OF BCA AND CHAIRMAN OF THE INTERNATIONAL PANEL OF EXPERTS FOR UNIVERSAL DESIGN

The Panel comprised the following leading global experts and local stakeholders:



Dr John Keung IPE Chairman Chief Executive Officer, Building and Construction Authority



Mr Kevin Wong IPE Co-Chairman Board Member, Building and Construction Authority Group Chief Executive Officer, Keppel Land Limited



Mr Francesc Aragall
Panel Expert
President, Design for All Foundation
General Director, ProAsolutions
(An Accessibility and Design for
All Consultancy)



Prof Keith Bright
Panel Expert
Emeritus Professor of Inclusive
Environments, University of Reading
Director, Keith Bright Consultants



Ms Valerie Fletcher
Panel Expert
Executive Director,
Institute for Human Centered Design



Dr Satoshi Kose Panel Expert Professor, Shizuoka University of Art and Culture (Department of Architecture, Faculty of Design)



Ms Tone Ronnevig Prominent Overseas Member Senior Advisor on Universal Design, Norwegian Building Authority



Mr Chong Lit Cheong Prominent Local Member Chief Executive Officer, Capitaland Commercial Limited



Mr Chia Ngiang Hong Prominent Local Member Group General Manager, City Developments Limited



Ms Rita Soh Prominent Local Member President, Board of Architects Director, RDC Architects Pte Ltd



Prof Wong Yunn Chii Prominent Local Member Head, National University of Singapore Department of Architecture, School of Design & Environment





Left I Over 200 participants attended the BCA Universal Design Seminar 2012 'Creating Places and Spaces

During the IPE meeting, the Panel commended Singapore's progress in accessibility improvements and strong commitment to develop Universal Design for buildings, with collaboration between industry stakeholders and the academia. Singapore's continuous efforts in identifying and implementing good design practices were strongly endorsed as a workable model, although more could be done to create an inclusive built environment.

KEY RECOMMENDATIONS FROM THE PANEL INCLUDE:

Making business sense of Universal Design

A key challenge is to promote the business case of Universal Design. This includes helping enterprises look beyond upfront costs and understanding the value of Universal Design. This is in view of a rapidly ageing global population, where Universal Design can enable greater inclusiveness in the built environment. There is also a need to look into ways to encourage stakeholders to drive Universal Design, with greater recognition and sharing of success stories.

Taking a multi-prong approach in tackling existing buildings

The Panel acknowledged the urgency in tackling existing buildings as the number of elderly above 65 in Singapore is expected to reach 20% in 2030. While BCA's strategy of using the Accessibility Fund to encourage voluntary upgrading was endorsed, the Panel pointed out that there is no silver bullet in effecting accessibility improvements. A multi-prong approach using capital incentives, education and possibly legislation as the last option, was recommended.

Raising awareness and building capabilities

One of the key takeaways from the IPE meeting was the need to raise awareness and build capabilities for Universal Design. Education on Universal Design should be pervasive and conducted for all stakeholders at all levels. The Panel recommended various targeted training efforts for young children, tertiary students, design professionals, developers and other relevant stakeholders. Social media can also complement existing public outreach efforts to achieve buy-in from the community.

Applying Universal Design as a user-centric concept

The importance of user consultation in the delivery of Universal Design was also highlighted. As Universal Design concerns users, both users and experts should be consulted to understand the full spectrum of users' needs and preferences. For existing developments, the Panel endorsed the methodology of conducting audits of existing facilities and soliciting user feedback to identify needs and suggest improvements.

BCA will be reviewing the above recommendations for implementation in the new Accessibility Masterplan.

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Everyone including architects, developers, building owners and the public, has a role to play in contributing to an inclusive built environment.



PROMOTING SINGAPORE AS A REGIONAL LEADER IN GREEN BUILDING DEVELOPMENTS

SINGAPORE REPRESENTATIVES ATTENDED THE GROUNDBREAKING CEREMONY OF THE LOW CARBON LIVING LAB BUILDING AND 8TH INTERNATIONAL GREEN AND ENERGY-EFFICIENT BUILDING CONFERENCE

GROUNDBREAKING CEREMONY OF THE LOW CARBON LIVING LAB BUILDING

On 25 March 2012, BCA and 20 other agencies and firms, including the Ministry of National Development (MND), Ministry of Trade and Industry (MTI), International Enterprise (IE) Singapore and Singapore Green Building Council (SGBC), visited the Sino-Singapore Tianjin Eco-City (SSTEC), Tianjin Economic Development Area (TEDA) and Tianjin Municipality.

Minister of State (MOS) for National Development and Trade and Industry, Mr Lee Yi Shyan led the delegation to explore business opportunities in Tianjin, and witnessed the groundbreaking ceremony of the Low Carbon Living Lab Building (LCLL) in the SSTEC. The delegates also met top government officials and networked with industry leaders in Tianjin.



Located within the Eco-Business Park in Tianjin Eco-City, the Low Carbon Living Lab Building (LCLL) is jointly developed by SSTEC, BCA and IE Singapore. The LCLL is a high quality, green office building with low carbon emissions to be completed in 2013. It aims to be a "living lab" to test-bed and demonstrate green building features, energy efficient building technologies and renewable energy, and targets to achieve platinum awards under the Tianjin Eco-City Green Building Evaluation Standard (GBES) and BCA Green Mark.

Right | Green Building Design of LCLL: Courtesy of SSTEC.





INTERNATIONAL GREEN AND ENERGY-EFFICIENT BUILDING CONFERENCE

Following the visit to SSTEC, the Singapore delegates attended the 8th International Green and Energy-Efficient Building Conference (IGEBC) which took place from 29 to 31 March 2012 at the Beijing International Convention Centre. During the opening ceremony, MOS Lee spoke about the various green policies introduced by the Singapore Government to address the issue of sustainability. These include the BCA Green Mark Scheme and related incentive schemes to encourage the adoption of green practices in buildings and during construction.

The signing of a Memorandum of Understanding (MOU) between the Singapore Green Building Council (SGBC) and China Green Building Council (CGBC) also took place on the opening day of IGEBC. The MOU facilitates collaboration between SGBC and CGBC in promoting the development of green buildings in China, which include studies on green building product certifications; conducting green building-related professional training and study trips; and other activities facilitating Sino-Singapore collaborations in the area of green buildings. The MOU signing ceremony took place at the Singapore Pavilion and was witnessed by MOS Lee, Vice-Minister Oiu Baoxing and Singapore Ambassador to China,

Above I Opening of the 8th IGEBC at the Beijing International Conference Centre.

Right I MOS Lee giving his opening address at the 8th IGFBC.

Middle I MOU signing between Singapore Green Building Council and China Green Building Counci.

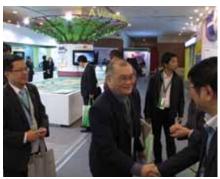
Bottom | Director of International Development Division, Mr Koh Lin Ji, and Assistant Director of International Development Division, Dr Gao Chun Ping, interacting with guests at the Singapore Pavilion.

Mr. Stanley Loh, signifying another milestone in collaborations between Singapore and China.

The Singapore Pavilion, jointly organised by BCA and SGBC with support by IE Singapore, was one of the largest pavilions at the IGEBC exhibition. Themed "A Vibrant Liveable Eco-City" it aims to raise the international profile of Singapore's green building industry as well as promote Singapore firms in China. A total of seven firms participated in the Singapore Pavilion, including ONG&ONG Pte Ltd, Squire Mech Pte Ltd and SCP Consultants Pte Ltd. The pavilion also showcased the models of three iconic Singapore projects -Treelodge@Punggol, Low Carbon Living Lab Building and the Sino-Singapore Tianjin Eco-City.









Top I Inaugural Singapore forum themed "From Green Buildings to Green Districts: The Singapore Approach and Autodesk Green BIM Workshop".

An inaugural Singapore forum was also organised in conjunction with other sessions at the IGEBC. The forum, themed "From Green Buildings to Green Districts: The Singapore Approach and Autodesk Green BIM Workshop", was jointly organized by BCA and SGBC with support from Autodesk, Inc. Representatives from various notable local firms presented their experiences with green buildings and district developments. Autodesk, which has good experiences working with BCA in the areas of BIM technology, also conducted a one hour workshop introducing Autodesk's BIM-based sustainable design solutions and how advanced software technologies can help with effective green building designs. The Singapore Forum was well received by both the audience comprising industry players, Chinese government officials, as well as invited speakers.

Through this trip, BCA successfully raised Singapore's profile as a regional leader in green building developments. In addition, BCA also organised the largest green building themed pavilion, as well as the inaugural Singapore green building forum in China. P

SPEAKERS AT THE SINGAPORE FORUM:



Mr Tai Lee Siang



Mr Koh Lin Ji (BCA)



Mr Alan Tan



Dr Lin Kaigiu



Mr Eddie Yang



Mr Chang Meng Teng (Squire Mech)



Ms Zhang Xi (Autodesk)

SHARING THE KEY TO SUSTAINABILITY

INDUSTRY PROFESSIONALS EXCHANGED IDEAS AT BCA-REDAS-SGBC GREEN BUILDING SEMINAR 2012



The annual BCA-REDAS-SGBC Green Building Seminar was conducted at the BCA Academy on 19 March 2012. Themed "Unveil the Secrets behind Green Successes", the seminar attracted close to 280 industry professionals.

During the seminar, winners of the inaugural BCA-SGBC Green Building Awards shared their passion and experiences in charting environmental sustainability in Singapore. Representatives also discussed their organisations' proactive approaches in driving environmental sustainability and their project experiences.



GREEN BUILDINGS FOR A SUSTAINABLE FUTURE



AN APPROACH TO SUSTAINABLE LIVING: TREELODGE@PUNGGOL



THE JOURNEY OF A **GREEN INNOVATOR**



CREATING A SUSTAINABLE FUTURE



A LEADER IN M&E CONSULTANCY IN **GREEN MARK AWARDS**

Mr Allen Ang

Deputy General Manager, Projects, and Head of Green Building, City Developments Limited

City Developments Limited (CDL) is the first organisation to win the BCA Green Mark Platinum Champion Award. Green Advocate, Mr Allen Ang, shared his experience and passion in driving CDL's green movement, as well as CDL's journey in championing innovation and a green vision.

Mr Alan Tan

Director (Environmental Sustainability Research), HDB Building Research Institute, Housing and Development Board

Awarded the BCA Green Mark Champion Award in 2011, the Housing and Development Board (HDB) is the largest developer in Singapore and has been leading the industry in promoting sustainable development. Apart from sharing sustainable development strategies, Mr Alan Tan also shared HDB's journey in creating living labs out of HDB estates, through an example of Treelodge@Punngol, HDB's first eco-precinct and BCA Green Mark Platinum project.

Dr Ho Nyok Yong Director and Technical Director, Samwoh Corporation Pte Ltd

Dr Ho Nyok Yong, who was awarded BCA-SGBC's Green Innovator 2011, shared his personal experiences in going green, as well as his works and achievements in sustainable construction. In addition, he shared the challenges in convincing people to accept green materials.

Ms Vivien Heng Project Director Architecture, RSP Architects Planners & Engineers

(Pte) Ltd

Ms Vivien Heng, winner of BCA-SGBC's Green Architect 2011, shared her experience and aspirations at the seminar. She also shared information on new products and innovations for future green architecture.

Ms Irene Yong Senior Associate Director, Beca Carter Hollinas & Ferner (S. E. Asia) Pte Ltd

Beca Carter Hollings & Ferner (S.E. Asia) Pte Ltd is one of the leading M&E consulting firm with 10 or more projects rated BCA Green Mark Gold^{Plus} or Platinum. Ms Irene Yong shared Beca's experiences and approach to sustainability in their greening journey, as well as details of key projects.

SHARING SESSION WITH REGISTERED ARCHITECTS



Every year, BCA organises sharing sessions with Registered Architects on the common mistakes and non-compliances found during building plan submissions and site inspections for Temporary Occupation Permit (TOP)/Certificate of Statutory Completion (CSC) applications. The objective of these sessions is to help architects minimise mistakes in their submissions and reduce the time taken to obtain building plan approvals. In addition, BCA makes use of the opportunity to gather views on new initiatives in the pipeline, such as the review of processes and requirements.



BCA held four sessions with Registered Architects in late February and early March this year, for the 5th year running. A record number of 106 participants attended this run of sharing sessions, which were chaired by Mr Chin Chi Leong, BCA's Director for Building Plan and Management Division. Key issues discussed at the sessions include:

- Site conditions required for TOP inspection
- Regulation on the use of glass in buildings to address spontaneous shattering
- · Advice on external movable sunscreen
- Common non-compliances from TOP inspections
- Poor designs that affect proper usage of developments
- Review on requirements for safety to prevent fallfrom-height

The sharing sessions were fruitful as participants were able to have their questions answered. Many also felt that this was an excellent channel for them to provide feedback on BCA's processes and requirements, and to have their doubts clarified.

BCA will be organising additional runs later this year for architects who were unable to attend the earlier sessions. Due to overwhelming requests, BCA will also visit some architectural firms to brief their staff on information shared at these sessions. P

TRANSFORMATION OF THE **BCA ACADEMY**

THE BCA ACADEMY GETS A MINI-FACELIFT WITH NEW ROOMS AND NEW SYSTEMS

The strong growth experienced by the BCA Academy over the last few years has given rise to a need to redevelop and expand the campus, so as to cater to the increasing student population and diverse courses offered at the Academy. As the education arm of BCA, the BCA Academy plays a leading role in helping the industry acquire new skills and capabilities.

Plans to redevelop the Academy include adding a new academic block, two new workshop blocks and improvement works to the entrance and courtyards. These works are expected to take two years to complete. During this period, the BCA Academy will continue to run new programmes, embark on new initiatives and house an increasing population of students.

As the Academy is operating at full capacity, some of the existing facilities are being upgraded and converted to new uses. One of the considerations is to ensure that retrofitted facilities are high quality, sustainable and energy efficient. Upgrading works include the installation of dimmable LED fluorescent and down lights, active sound systems and common switches. To facilitate lessons by renowned overseas and local university partners, customised video-conferencing systems that support live video links were also installed. Besides new installations in existing facilities, the Academy also added a new design studio, two computer rooms, an electrical laboratory and a crane simulator centre.



Crane Simulator Centre. Bottom I



Right | Video conference system at room B1-9.



Here are what some of the students and staff have to say:

"The video conference system in room B1-9 delivers good sound and picture quality. Students seated at the back also have a clear view of the slides as a result of the installation of two 56" television screens at the centre of the classroom."

MS CINDY CHAM, SCHOOL FOR GRADUATE DEVELOPMENT AND MANAGEMENT

"The provision of power points at each table in Design Studio 2 makes it convenient for us to study with our notebooks. Chairs in the room are also very comfortable."

AMIRUL AND SHAM, STUDENTS FROM THE DIPLOMA IN STRATEGIC FACILITIES MANAGEMENT PROGRAMME

100TH BCA GREEN MARK PLATINUM BUILDING



EXISTING BUILDINGS GO GREEN AND PLATINUM

BCA recently awarded the 100th Green Mark Platinum to Republic Plaza, a Grade A office building and one of the tallest skyscrapers in Singapore. Republic Plaza was also among the first few buildings to receive the BCA Green Mark Gold Award when the BCA Green Mark scheme was introduced in 2005. However, it was retrofitted to improve its energy efficiency and attained the highest BCA Green Mark Platinum rating.

Some of the major retrofitting works that Republic Plaza underwent include a replacement of its 15-year-old chiller system that was no longer operating at its optimal level. Two existing chiller plants were combined into a smaller but more efficient system, which resulted in a 17.5% reduction in energy consumption for the building, translating to an annual saving of approximately \$870,000. The space initially taken up by one of its chiller plants is now 200m² of rentable area.

Building owner City Developments Limited expects to recover the retrofitting cost for Republic Plaza from its energy savings, in five years' time or even earlier, if electricity tariff rates continue to rise in the near future.

buildings can also tap on BCA's \$100 million Green Mark Incentive Scheme for Existing Buildings (GMIS-EB) that costs of installing energy efficient equipment in existing buildings or up to 50% of an energy audit. In addition, the **Building Retrofit Energy Efficiency** Financing (BREEF) Scheme helps existing building Two applications for the retrofit works at North Bridge Centre and Tong Eng Building have been approved

With the national target to have at least 80% of the buildings in Singapore attain minimum Green Mark standards by 2030, the focus now lies in 'greening' existing buildings. Existing buildings, when retrofitted to enhance their energy efficiency, can help building owners and tenants achieve substantial savings.

Here are other examples of existing buildings that have gone green and platinum.



TREETOPS EXECUTIVE RESIDENCES

Key retrofitting works: The air-conditioning equipment was optimised to operate efficiently with less hydraulic losses and improved system efficiency with the use of variable speed drives. A tri-generation plant was also installed to supply power to the building and the waste heat generated is recovered to produce chilled water for the air-conditioning, resulting in a very efficient air-conditioning system. Waste heat recovered is also used to produce domestic hot water to replace more than 400 independent water heaters.

Motivation: With the increasing concern on environmental issues faced in today's society, Treetops believes in fulfilling its mission of being an environmentally sustainable organisation, through its corporate social responsibility. Since it has embarked on its green building retrofits, it has achieved approximately 27% of energy savings, and is targeting to achieve 52% of energy savings once the retrofits have been completed.



GREAT WORLD SERVICED APARTMENTS

Key retrofitting works: Several initiatives that Great World has embarked on include changing the air-conditioning system from direct expansion to a chilled water system. In addition, the lighting system will be replaced to improve energy efficiency. Sensors and variable speed drives were installed in the mechanical ventilation system at car parks, as well as heat pumps for the outdoor Jacuzzi. Furthermore, flow regulators were installed in the apartments' water fittings.

Motivation: Great World believes in contributing positively to the environment and sees energy savings in the long term despite an initial outlay of about \$6.5 million for retrofits. Incentives such as the BCA Green Mark Incentive Schemes also help to defray part of the costs of going green.



JURONG PORT

Key retrofitting works: Improved the efficiency of the chiller plant system and installed an automatic condenser tube cleaning system for the chiller plant. A double glazed façade and vertical greenery will be adopted to minimise heat gain into the building.

Motivation: Although the building was built in 1978 as a small development with a gross floor area of about 6,000 square metres, Jurong Port worked on a prudent budget to retrofit its building as part of its initiative to go green. Jurong Port also signed a Memorandum of Understanding with the Maritime and Port Authority of Singapore to encourage research and development of green port technologies and productivity solutions.



WORLD WORKPLACE ASIA CONFERENCE & EXHIBITION 2012

FULL-SCALE WORLD WORKPLACE ASIA CONFERENCE AND EXHIBITION HELD FOR THE FIRST TIME IN ASIA, OFFERING A VALUABLE INTER-DISCIPLINARY PLATFORM FOR EXPERTS TO SHARE INSIGHTS AND APPROACHES IN THE AREA OF FACILITY AND PROPERTY MANAGEMENT.

Jointly organised by BCA, International **Facility Management Association** (IFMA) and the Singapore Chapter of IFMA, the inaugural full-scale World Workplace Asia Conference and Exhibition 2012 will be held at Raffles City Convention Centre from 25 to 27 July. The theme for this year's event is "Asia Pacific Facility Management: Smart Facilities, Unlimited Opportunities".

Modelled after IFMA's World Workplace Conference and Expo held annually in the United States for the past 32 years, the event includes a two-day conference delivered by distinguished professionals and academia, covering topics on facilities management best practices, global sustainable practices and real estate

and property management. The conference will begin with an opening plenary by renowned regional business leaders who will address the shift of demand for space and assets towards the Asia Pacific region in the coming years. The conference will also present the strategies for managing rapid growth in the global workplace.

The three-day event offers a comprehensive platform for international experts to share insights and explore various approaches to pertinent issues within the industry. The event also includes a Facility Management Leaders Roundtable Forum, educational tours to outstanding BCA Green Mark projects, a networking Gala Dinner as well as a product and service exhibition.



Attendees for the event include delegates from the United States, China, India, Nigeria, Australia, Thailand, Indonesia and Malaysia.

If you would like to find out more or register for the event, please visit:

www.worldworkplace.org/asia



Top | Attendees at IFMA's World Workplace Conference and Expo.

Distinguished Speakers include:

Mr Wilfred Wong, CEO, Hsin Chong Group, Hong Kong

Mr Budiarsa Sastrawinata, CEO, Ciputra Group, Indonesia

Mr Steven Sonsino, CEO, Tomorrow Leaders Institute, USA

Mr Susheel Koul, Regional Director, Integrated Facilities Management, Asia Pacific, Jones Lang LaSalle, Singapore

Prof. Alexi Marmot, University College London

Mr Noriaki Yamada, Deputy General Manager, Facility Engineering Division, Sony Facility Management Corporation, Japan

Mr Mario Qian, President, IFMA Shanghai Chapter, China

Mr Stephen Ballesty, Director & Head of Advisory, Rider Levett Bucknall, Australia

Mr Michael Schley, CEO, FM:Systems, USA

And many more...

"Facility management is quickly evolving throughout all market sectors in Asia; this is the only event taking place in the region that will provide you with the facts, examples and leadership you need to keep pace and position yourself for success. The World Workplace Asia 2012 provides an educational framework that will allow you to move seamlessly from everyday workplace issues to forward thinking, strategic topics."

PAUL DOHERTY, PRESIDENT, SCREAMPOINT, USA

"World Workplace Asia 2012 provides an important opportunity for FM leaders throughout Asia to meet and exchange ideas. With the rapid pace of development in this part of the world, it is critical that facility managers stay current with skills, knowledge, and relationships. World Workplace Asia 2012 is the only event that facilitates all three."

MICHAEL SCHIEY IFMA FELLOW, CEO OF FM:SYSTEMS

"For the past 30 years, IFMA's World Workplace conference and exhibition held in North America has been regarded as the world's premier event for Facilities Management (FM) professionals. The FM industry and profession is growing exponentially in Asia. The World Workplace Asia Conference and Exhibition 2012 held in Singapore this year will deliver a world class forum for FM and real estate professionals to share knowledge, access global best practice and network with industry peers."

DERIC PROBST-WALLACE, IMMEDIATE PAST PRESIDENT, IFMA HONG KONG CHAPTER



INTERNATIONAL GREEN BUILDING CONFERENCE 2012

IGBC 2012 TO FOCUS ON GREEN LEADERSHIP AND GREEN COMMUNITY

The International Green Building Conference (IGBC) 2012 organised by the Singapore Green Building Council (SGBC), in partnership with BCA, will be held at Marina Bay Sands from 10 to 12 October. Globally, leadership by the government and industry has created the impetus for rapid green building development in many countries. The engagement of the community such as tenants and homeowners in green issues are also equally important going forward. As such, it has inspired this year's theme of Green Leadership and Green Community.

The event will gather green building stakeholders to discuss and share strategies and policies to bring Green Leadership to the next level and harness the tremendous

potential within the Green Community. There will also be greater emphasis on three specific tracks - Leadership & Climate Change, Green Community, and Greening Building Technologies in the Asia-Pacific Region. Conference delegates can also look forward to popular BCA Green Mark Tours of exemplary green building projects in Singapore. Workshop sessions will also be held to give conference delegates the opportunity to deepen their knowledge through interactive sessions with local and international experts on specific green building topics.

IGBC 2012 will be held in conjunction with Build Eco Xpo (BEX) Asia 2012. The exhibition aims to bring together skilled professionals, key industry practitioners, suppliers and buyers from the region, to network and stay updated with the latest green building products, technologies and developments. P



EVENT LINE UP

Site Investigation for Engineers 19, 21, 26 & 28 JUN

Internal Audit (QEHS) Course based on Quality ISO 9001, Environmental 14001 and Health & Safety **OHSAS 18001**

26, 28 JUN, 03, 05, 10 & 12 JUL

28 JUN

03 JUL

1-Day Workshop on Programme Risk Management – Technical Use of Programmes to Control, Manage and Optimise the Project (NEW)

Good Industry Practices (Waterproofing for Internal Wet Areas)

Certified Green Mark Professional (GMP) Programme 2012 06 JUL-04 DEC 2012 (REGISTRATION CLOSING ON 22 JUN 2012)

Workplace Safety and Health Management System (BizSAFE Level 4)

09, 11, 16 & 17 JUL

Good Industry Practices (Painting)

10 JUL

Retrofitting & Strengthening of Building Structures

18 JUL

Project Management for Professionals in the Building and Construction Industry

18 JUL-31 AUG

Contract Drafting - The Technicalities and Legalities 19 JUI

Behavioural Safety for the Construction Industry 19 & 20 JUL

Good Industry Practices (Aluminium Window) **24 JUL**

Understanding the Green Mark Criteria for Existing Buildings and Office Interior **25 JUL**

World Workplace Asia Conference & Exhibition 2012 (NEW)

25. 26 & 27 JUL

2-day workshop: Design of Concrete Structures -Eurocodes versus BS (NEW)

01 & 02 AUG

Certification Course for Green Mark Facilities Manager 01 AUG-12 SEP

Certification Course in Measurement & Verification of Central Chilled-water Plant Efficiency

13, 14, 15 & 22 AUG

Certificate in Gas Technology (NEW)

14 AUG-15 SEP

Graduate Certificate in Workplace Safety and Health 18 SEP 2012-28 MAR 2013 **(REGISTRATION CLOSING** ON 07 AUG 2012)

TU Braunschweig-BCA **Excutive Development** Programme: INNOVATIONS IN ŠUSTAINABLE DESIGN **AND TECHNOLOGY 2012** (NEW)

03-07 SEP 2012 (REGISTER BEFORE 31 JUL 2012 TO ENJOY EARLY BIRD FEE)



CONTACT: **BCA ACADEMY – BUSINESS DEVELOPMENT UNIT**

DID: 6248 9843/824

EMAIL: bca academy@bca.gov.sg



WORLD WORKPLACE ASIA CONFERENCE & EXHIBITION 2012



JULY 25 - 27 • RAFFLES CITY CONVENTION CENTRE • SINGAPORE

Asia Pacific Facility Management:

SMART FACILITIES, UNLIMITED OPPORTUNITIES

For registration: www.worldworkplace.org/asia For enquiries: wwasia@ifma.org

HIGHLIGHTS

- ★ KEYNOTE OPENING PLENARY by renowned regional business leaders:
 - Mr Jeffrey Chua, CEO, Ascendas Services, Singapore
 - Mr Wilfred Wong, Executive Deputy Chairman, Hsin Chong Construction Group and Synergis Holding Limited, Hong Kong
 - · Mr Budiarsa Sastrawinata, Managing Director, Ciputra Group, Indonesia

The keynote plenary is chaired by Professor Annie Koh, VP, Business Development & External Relations Dean, Office of Executive and Professional Education, Singapore Management University

- ★ HIGH LEVEL CONFERENCE by distinguished international industry professionals and academicians, with a focus on:
 - Facility Management Best Practices
 - Sustainable Facility Management
 - Global Trends and Innovations
 - Real Estate & Property Management
- ★ POWER PRESENTATION "Upside Down World: Leadership in the Emerging Markets" by Mr Steven Sonsino, Founder and CEO, Tomorrow Leaders Institute
- ★ PRODUCTS & SERVICES EXHIBITION showcasing the best solutions and innovations in the market for enhancing facility operations and performance.
- ★ GREEN FACILITY SITE TOURS to outstanding BCA Green Mark certified commercial buildings and office interiors.
- ★ AWARDS GALA DINNER presenting an excellent platform for participants to interact, exchange ideas, forge new partnership and promote latest initiatives.

DISTINGUISHED CONFERENCE SPEAKERS INCLUDE:

- Mr Susheel Koul, Regional
 Director, Integrated Facilities
 Management, Asia Pacific, Jones
 Lang LaSalle, Singapore
- Prof Alexi Marmot, University College London
- Mr Noriaki Yamada, Deputy General Manager, Facility Engineering Division, Sony Facility Management Corporation, Japan
- Mr Mario Qian, President, IFMA Shanghai Chapter, China
- Mr Stephen Ballesty, Director & Head of Advisory, Rider Levett Bucknall, Australia
- Mr Michael Schley, CEO, FM: Systems, USA





