



Green Pulse

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Healing Through Nature: Khoo Teck Puat Hospital

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Healing Through Nature: Khoo Teck Puat Hospital

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Healing Through Nature: Khoo Teck Puat Hospital



Khoo Teck Puat Hospital (KTPH) has clinched the inaugural Stephen R. Kellert Biophilic Design Award. Biophilic design incorporates natural materials, natural light, vegetation, nature views and other experiences of the natural world into the modern built environment.

KTPH has surpassed traditional hospitals and has opened the door towards a new kind of building type for the healthcare industry. The design considers how the built and natural environment can become part of the healing process.

Biophilic Design Integration

Using biophilic design elements and attributes as a design concept



Designed as a V-shaped configuration of blocks, delineating a central court. The 'V' opened to the north, letting in breezes that first, skim over an existing storm-water pond, adjacent to the hospital site. To tap into this natural airflow, the envelope of the buildings had to calibrate permeability and shade. The goal was to allow patients access to natural light, cooling breezes and views, without risk of solar glare or rain entry.

Designed to be 'forest-like' - water features with aquatic species, and plants that attract birds and butterflies were introduced. Greenery extended from the central courtyard to upper levels of the buildings and down into the open-to-sky basement, creating the impression of architecture deeply enmeshed in a garden. At the upper levels, balconies with scented plants bring the experience to the patient's bedside.

Remarkably for a development located in a dense urban setting, KTPH managed to achieve a green plot ratio of 3.92; this meant that the total surface area of horizontal and vertical greenery is almost four times the size of the land that the hospital sits on. In addition, 18% of the hospital's floor area account for blue-green spaces and 40% of all such spaces are publicly accessible.

In 2005, mid-way through design, the KTPH team expanded the hospital's blue-green footprint by 'adopting' the adjacent storm water pond. Collaborating with other government agencies, the hospital team worked out a cost-sharing arrangement whereby the pond, redesigned as a park, would serve multiple groups within Yishun. The concrete edges of the pond were deconstructed and aquatic plants were introduced to clean the water and create habitats. A walking trail was added, linking the park to the hospital and a nearby residential estate. Following the incorporation of the pond, total blue-green space available to KTPH patients and visitors increased by 400%.

Place-Based Relationships

Using specific place, climate and ecology of the building location to determine building design



The site for the hospital was chosen for its proximity to Yishun Pond. In response, the massing designed to open up to and 'embrace' the pond, 'drawing in' greenery and water into the heart of the hospital. Thereby making the hospital and pond an integrated entity. The water feature weaves through the landscaped courtyard at level-1 and cascades through a waterfall into the basement creating an illusion that water was drawn from the pond. The lushly landscaped basement courtyard brings in daylight and natural ventilation.

To suit the local climate, indigenous tropical plant were chosen for ease of maintenance. By providing host plants and various habitats within the hospital grounds, the hospital becomes part of the larger ecosystem encompassing various green patches throughout the north of Singapore.

Its success is evident in the increasing number of butterfly species sighted in the hospital grounds (increasing from 3 to 83 as of now). In response to the tropical climate, natural ventilation is optimized in the subsidized wards to enhance patient comfort. Common areas such as the main lobby

and public corridors were specially designed for optimal natural ventilation thereby reducing the need for mechanical ventilation and energy consumption. By orientating the subsidized ward tower to 'capture' the prevailing North and South East winds, an optimal wind speed is achieved which would provide adequate thermal comfort for the patients. By reducing the hospital's reliance on mechanical ventilation for by approximately 60%, savings can be achieved in energy consumption.

Aluminium fins or "Wing walls" along the building's walls were designed to channel the prevailing winds into the building by increasing the wind pressure build up on the façade. Wind tunnel tests conducted at the National University of Singapore (NUS) found that these fins would enhance the airflow by 20 to 30%.

Evolved Human-Nature Relationships

Getting building occupants to engage with nature and incorporating that in building design



To make the hospital a "biophilic environment", every available surface had to be maximized for the creation of therapeutic green spaces. Extensive landscaping at every floor ensures that patients and staff are in close proximity to the calming and rejuvenating environment so they can be constantly treated to garden views from multiple angles.

Each unique roof garden is engaging and educational. The rooftop farm at the Specialist Outpatient Clinic Block has 100 species of fruit trees, 50 species of vegetables and 50 species of herbs. Run by volunteers from the nearby neighborhood, the farm is also a source of organic produce for the hospital kitchen. This creates an educational opportunity to for visitors who might not know how their food is grown in urban Singapore.

Other roof gardens are catered to specific patient needs. Access to the Dementia garden at level 4 next to the Geriatric

clinic is controlled by staff to keep the patients safe as they enjoy the lush garden landscape.

Another highlight is the terraced gardens at the podium roof deck levels of the Private and Subsidized ward towers. Patients and caregivers are treated to an exploratory delight as they weave through the terraced levels, discovering private niches and trellised alcoves for reflective solace or enjoying the company of family and friends.

Most importantly, KTPH was designed to be more than just a place of recovery. It is also a serves as a tranquil communal node where the local community can attend public lectures, exhibitions or participate in educational programs organized by the hospital. Commercial areas geared towards healthy living are located in the hospital to promote health awareness. In addition, since 2010, the hospital's lush greenery and peaceful ambiance have made it a popular spot for students seeking a conducive environment.

Built Experience: Lessons Learned

Understanding the benefits of biophilic design on occupants



In 2016, a post-occupancy evaluation (POE) was conducted at KTPH on a sample group of 200 users comprising of patients, staff and visitors and at an older hospital designed base on an earlier approach to healthcare design. The POE focused on the effects of water and greenery on user perceptions and feelings of wellbeing.

The POE revealed that KTPH's use of biophilic design (BD) elements such as greenery and water attributed to it performing better than its counterpart when comparing perceived beauty, self-reported wellbeing, and user awareness of and proximity to nature. Out of six such constructs, four corresponded with biophilic design.

Over 80% of respondents said yes when asked if hospitals ought to invest in blue-green elements. When surveyed on their willingness to pay for BD, respondents from the older hospital saying yes was higher than in KTPH, possibly due to the older hospital's lack of blue-green elements.

The POE also affirmed KTPH's role as a local community hub. The study identified that 15% of visitors that come to the hospital do so for social and recreational reasons. In addition, it also pointed out that 58% of respondents who visit KTPH come from the neighborhood.

KTPH is overwhelmingly adored by staff and visitors. It has a higher number of casual visitors from the neighborhood than other hospitals. It consistently out-performs all other hospitals in Singapore in the annual Ministry of Health public satisfaction survey. Results of the 2016 study suggest that this preference, at least in part, is linked to the quality of its space and biophilic attributes.

Climatic studies conducted revealed that KTPH is significantly cooler in the afternoon most likely is due to shading (i.e. lower heat gain) and evaporative cooling (i.e. water features).





Rasmus Astrup

RASMUS ASTRUP is partner and project director in SLA – one of Scandinavia’s leading landscape architecture and urban development studios. SLA has more than 20 years of experience in creating modern, sustainable urban spaces that inspire community and diversity through innovative use of architecture, infrastructure, nature and technology.

What exactly is circuit design in architecture/urban planning? How does it benefit sustainability?

Circuit is also known as circular design. It’s the process of upcycling where by-products or waste materials are transformed into new materials or products of better quality. So you can use it for something better or at least at the same level. Its based on the thinking of the book Cradle to Cradle. An example would be a project we did in Bornholm, Denmark. We tried to create the project with resources from the island, rather than importing the building materials. Then we let the natural conditions and the materials determine the design, we don’t start the project with a predetermined design. For this project, we spent 3 days driving around the island, and conducted investigations and meetings with resource producers and the local people. We also found a quarry with some left over stone fragments, and we used these fragments to create the paving for the parking area. The stones



were packed so cleverly together than no glue was needed and later on you can just remove the stones (keeping its value) and reuse it. I know we cannot solve all projects like that, but I wish we could cause that is the best way to do it.

What is your favourite project to date, and why?

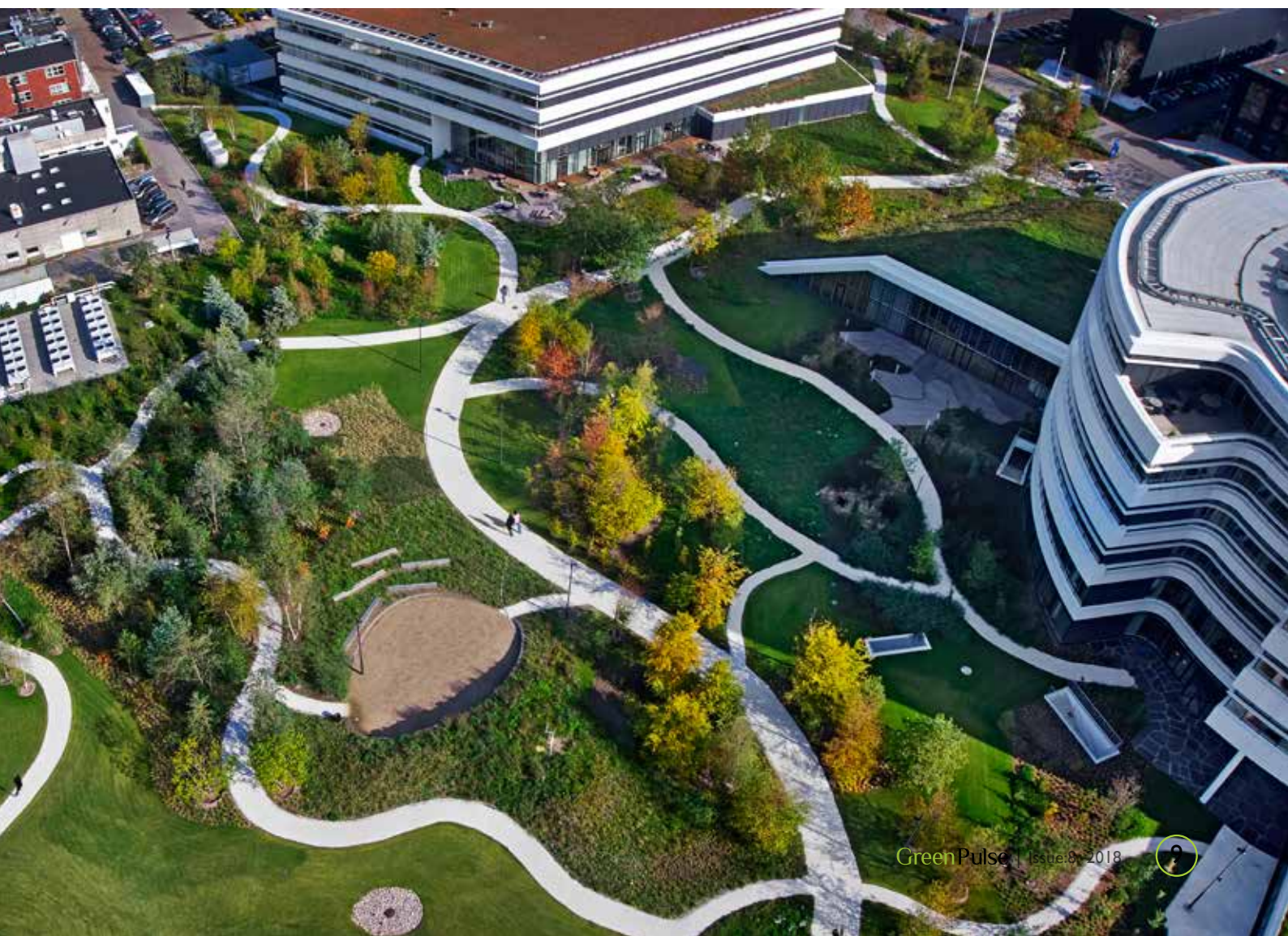
I think all our projects are my favourite but the one I talk about most is the Novo Nordisk project. This project is a good example of how a big corporate company saw the value and quality in nature for their employees, and also of how businesses can financially benefit from nature. The reason for this is that employees are key to the success of any firm. So when you create good conditions for them you will have success. In Novo Nordisk, it's really just wild nature – flora, fauna, insects and small birds. It is more than just a HQ for a commercial company, it is also a public park for everyone to enjoy.

We developed a new understanding of design through this project. It was one of our first projects where we literally only used native plant species and even left dead



trees as they were. There are preserved, untouched areas and there are biotopes created that accommodate the park. Though the disturbance to the natural habitat is very minimal – just to ensure accessibility into the park and ensure safety from falling trees, everything else is left as it is.

Another interesting aspect about Novo Park was that we had to redefine maintenance. In this project, nature coexisted with parked cars and an industrial estate. It is unlike a forest. But the feeling you get from being in the forest outside the city, is the same feeling



you should achieve inside the city by the nature design we create. And that nature design needs maintenance where you respect that is a process. The process doesn't have a predetermined plan, rather involves investigations and dialogues with biologists, gardeners and clients. We then discuss how things should be and how they should develop; because when designing with nature like do, we don't know exactly how it will turn out. Designing with nature as a base means relinquishing control. We can only create conditions, goals and qualities but we cannot control the trees.

Despite all the sustainability efforts going on, why do you think going green in terms of urban planning/ architecture still takes a back seat in some cities?

Well first of all green is a nice colour but I think it lays in the expression. There are a lot of people who mention green washing, but I think the word is wrong. In my opinion we should instead talk about life quality; living instead of surviving. Because nature is where we all came from, at least that's the way I understand the world. I respect other have a different opinion, but this is the way we base our work in our firm. A city is an eco-system, and if you want to solve a livable city, you need to play with all the important parts. Urban spaces are important because these are the more democratic places in the city. This actually where people can meet despite gender, age, et-

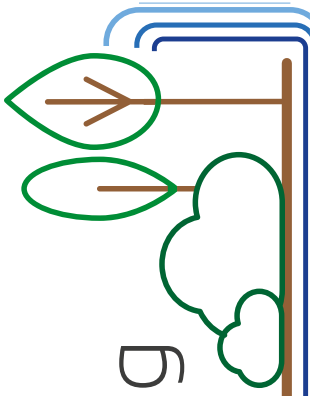
cetera. And they should be green, and when I say green I mean nature.

The dangerous part about green as a colour is that green washing just doesn't work. If we make something green as an add on or decoration, we will lose, because it doesn't bring purpose. And that is why it is so complex and requires one to be multidisciplinary. You can't just go green if you don't understand the sustainable part, the maintenance and the business case of the client. It's a big challenge in terms of collaboration and shared achievements. So it doesn't matter is sustainability comes first or second, what we need to do is talk about life quality and livable cities. Of course livable cities with good life quality is sustainable – its full of good nature, nice and efficient mobility, urban spaces where people can freely meet others, it's not noisy. That is a livable city to me.



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A dark green arrow-shaped graphic pointing to the right, containing the text 'STEPHEN R. KELLERT BIOPHILIC DESIGN AWARD'. The word 'BIOPHILIC' is in a light green color, while the other words are in white. To the left of the arrow is a small image of a wooden structure.

STEPHEN R. KELLERT BIOPHILIC DESIGN AWARD

The Stephen R. Kellert Biophilic Design Award acknowledges Stephen's legacy as a pioneer in articulating and applying Biophilic Design principles to the built environment. Late scholar and Yale University social ecologist Stephen R. Kellert's advocacy has encouraged widespread adoption of the practice. The award was offered for the first time in 2017 through the International Living Future Institute's Biophilic Design Initiative.

The inaugural award was presented to Singapore's Khoo Teck Puat Hospital, in recognition of the innovative and extensive use of biophilic design to engage all of the senses to promote healing and wellbeing.

Honourable Mentions to went to four close contenders:

1. The Phipps Centre for Sustainable Landscapes in Pittsburgh which "is a habitat for biodiversity, and a nursery for the landscape";
2. The Etsy Headquarters in New York for "bringing nature inside and creating varied scale spaces that replicate nature's patterns";
3. Cookfox Architects Studio in New York for its "direct and visual connections to nature and natural cycles"; and
4. Yanmar Headquarters in Osaka whose "glass-enclosed beehive in the centre of the building is an innovative focal point, a bold staircase is a biomimetic journey and a water feature is a unique approach towards a meditative and restful space for staff and visitors alike".

Judging Criteria for the award includes integration, expression, experience and evaluation of Biophilic Design.

All projects submitted must have a description of the Biophilic Design process implemented in their submittal as well as a clear description of the integration of the 6 Biophilic Design Elements and the attributes contained within them.

The six elements are:

- Environmental features
- Natural shapes and forms
- Natural patterns and processes
- Light and space
- Place-based relationships
- Evolved human-nature relationships

The idea of biophilic design is that our (built) environment is critical to people's health, productivity, emotional, intellectual, and spiritual well-being. Buildings and landscape can support human health or they can be detrimental. The sustainability movement (embodied most prominently by LEED standards) is more concerned with how people (through our buildings and landscape) affect nature than how nature affects people. It will be good to shift the emphasis of our development to how

we can make our built environments better for human health.

About The Biophilic Design Initiative

The International Living Future Institute has seen a demonstrated need among the Living Building Challenge community for Biophilic Design resources that can take the practice from theory to reality. While progress has been made to communicate what Biophilic Design is and to demonstrate why it is crucial to a Living Future, very little has been made around the process of how to achieve it. The International Living Future Institute has brought together leading experts in the field to form an Advisory Task Force that will lead the initiative through collaboration and inclusion of existing resources. This initiative aims to achieve the goal of broad adoption of Biophilic Design among the design community, building owners and cities. <https://living-future.org/biophilic-design/>

About the International Living Future Institute

The International Living Future Institute is a hub for visionary programs. The Institute offers global strategies for lasting sustainability, partnering with local communities to create grounded and relevant solutions, including green building and infrastructure solutions on scales ranging from single room renovations to



neighborhoods or whole cities. The Institute administers the Living Building Challenge, the most rigorous and ambitious building performance standard. It is the parent organization for Cascadia Green Building Council. It is also home to Ecotone Publishing, a unique publishing house dedicated to telling the story of the green building movement's pioneering thinkers and practitioners. <https://living-future.org>





Inaugural Cities of Love Award

The inaugural Cities of Love Award (COLA) ceremony was held in conjunction with SMU Grow's 3rd Anniversary. The ceremony was a celebration of sustainable efforts made by ordinary individuals and organizations.

Unlike many sustainability awards that are often given to prominent figures and enterprises who implement large-scale transformational projects, COLA recognizes smaller efforts that are creating positive impacts on society.

The award comprised two categories: social sustainability and environmental sustainability.

Social Sustainability aims to highlight initiatives that will sustain their social community in the long-term. The criteria that these awards will be judged



on include: Administration, Communications, Community Bonding, Community Care, Education, Family Support, Finance & Financing Operations, Parental Assistance, Social Services, and Others.

Environmental Sustainability highlights actions that create a sustainable and friendly environment, or help to protect or maintain existing environments. The criteria for judging include: Building, Construction, Design, Gardens, Landscape, Maintenance, Materials, Operations, Products, Services, and Others.

There were 26 Merit award winners and 6 Distinguished award winners across the categories.

Dr. Tan Chun Liang received the distinguished award under the Social category. As a research fellow





from NUS trained in architecture, Dr. Tan aspires to educate the younger generation in the design of urban greenery. Having found existing knowledge too technical for the younger minds, he devised learning tools such as scientific experiments and model making to enthuse the students to develop keen interest in green design. His determination propelled him to conduct workshops for some 10 schools and more than 200 students.

Temasek Polytechnic, School of Applied Science also received distinguished award under the Social category for their 'cookbook' project in an effort to preserve some of best loved Singapore classic hawker dishes thus preserving our unique culinary legacy.

Sport Singapore's submission highlighted the importance of sports as a vital means to sustaining a healthy lifestyle amongst residents of Singapore. The comprehensive vision and masterplan brings social sustainability to a great height unseen in any other societies. This distinguished award winner shows that sustainability is not just limited to the environment.

In the Environmental category, Mariam Mathew took on a strong interest to educate the public on Singapore's active, beautiful and clean waterways. With inputs from PUB, she worked with her students to develop outreach materials and conduct educational learning trips at Sungei Ulu Pandan site. Inspired by her initiatives, the students also took on roles as "Water Ambassadors" to share with other youths on the broader perspective of water issue.

Another Environment category distinguished award winner was a group submission by 5 individuals, the "Back to School Programme", an

initiative by BCA and MOE. The team of students from different institutes of higher learning took on the role of Green Mark Consultants to help schools with the green mark certification. To date, they have helped a total of 8 schools to attain Green Mark certification in less than 5 months.

The last distinguished award winner was SMU GROW, SMU's sustainability movement under the Office of the President. As a farming initiative located in the heart of the city, SMU GROW was born out of a desire to leave a lasting legacy – to learn, to give and to reconnect with nature.

Mr. Tai Lee Siang, Founder and Chair of COLA and Chairman of the World Green Building Council said, "Considering this is the inaugural awards, we are pleased with the entries. It will take some time before more people know about the awards. All the award winners demonstrate seriousness and qualities in their sustainability endeavours. There is clear demonstration of efforts and quite a number of the winners are truly exceptional. The best in class are all rewarded with Distinguished Awards.

About Inception

Inception was formed in Singapore in August 2010, by Valerie Ang and Tai Lee Siang, out of a passion to transform lives, environments, and societies. It believes that everyone has the capability to bring change. Inception hopes to be a vehicle of change through holistic creations that promote sustainable living. Its long-term vision is to develop a basket of diverse creative projects that could include products, publications, multi-media productions and even gastronomic experiences. By introducing new innovations and perspectives that are sustainable and economically feasible, it hopes to contribute to harmonious and peaceful living on this Earth we call home.



ASEAN Focus for Climate Action Forum 2018

Conference to Drive Investment In Clean and Green Growth



Climate Action Forum 2018 will draw attention to key climate challenges facing ASEAN, the need to implement policies and the sense of urgency required to drive investment in green and clean growth in the region.

The three-day conference and workshop will run from 8 to 10 May as one of the first major events in Singapore's Year of Climate Action.

It will highlight the latest on climate science, as well as the climate nexus of water, energy and food security, and the investment opportunities linked to climate change mitigation.

Climate Action Forum 2018 is jointly organised by two home-grown Clean and Green enterprises, Green in Future and Sustain Ability Showcase Asia (SASA).

The Minister for Environment and Water Resources Masagos Zulkifli has been invited to be the Guest of Honour to open the Climate Action Forum and to highlight relevant issues and opportunities in the Year of Climate Action.

The event will involve the People, Private and Public (3P) sectors locally and in ASEAN, as well as financial institutions, youth and non-governmental organisations (NGOs).

The Chairman of the Organising Committee is Professor Jeff Obbard, an environmental scientist, ecologist and engineer, who previously served as Director for the Sustainable Development and Water Alliance at the National University of Singapore (NUS).

Professor Obbard expects the Climate Action Forum to stress the sense of urgency needed to deal with the impacts of climate change which are already making their presence felt in ASEAN and other tropical regions.

"There is a need for greater awareness in ASEAN of what needs to be done to deal with the greater frequency of extreme weather events linked to climate change and how the public and private sectors can work together to build climate resilience in countries, cities and communities".

For more information on the Climate Action Forum 2018 and to register, please go to: www.climateactionforum.com

About Green in Future

Green in Future works towards contributing to the Global Green community for attaining a smart and sustainable future. Its services include eNewsletters, Training, Workshops, Conferences and Research

focusing on Green, Sustainability and Technology areas. Last year Green in Future organised the first Green Landscape Conference in Singapore.

www.greeninfuture.com

About Sustain Ability Showcase Asia (SASA)

Sustain Ability Showcase Asia (SASA) is a home-grown Singapore consultancy in the business of initiating and communicating sustainability practices in Asia Pacific through products, services, processes and people. SASA focuses on corporate sustainability programmes, energy efficiency, waste management, environment, carbon management, renewable energy investing and sustainability reporting.

www.sustain-ability-showcase.com

Issued on behalf of the Organising Committee of Climate Action 2018 by Green in Future and Sustainability Showcase Asia (SASA).

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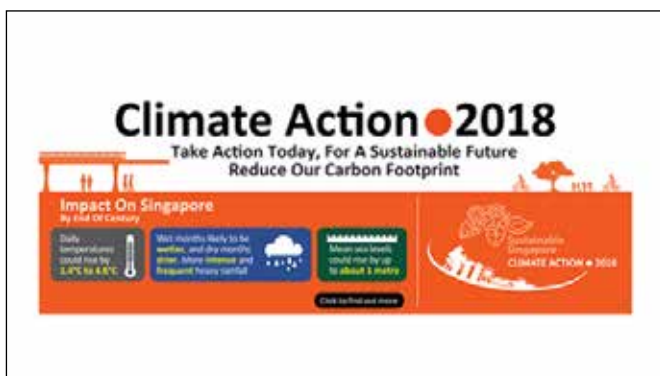
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Brands for Good Launches in Singapore

Brands for Good Awards, sponsored by Maybank & BBX, recognise SMEs and champion corporate social responsibility

CEO Asia launches the inaugural Brands for Good in Singapore. The recognition programme, sponsored by Maybank Singapore and BBX, aims to champion corporate social responsibility (CSR) and recognise forward-looking businesses, particularly Small and Medium-sized Enterprises (SMEs), which are committed to being stewards of positive impact. CEO Asia hopes to build a network of game-changers to motivate other businesses to move towards achieving a sustainable future.

"Brands have the power to create shared value through purpose-driven strategies," said Glenn Lim, founder of Brands for Good and director of CEO Asia. "Through Brands for Good, we will recognise the top brands that have embedded the principles of sustainability throughout their organisations. At the same time, Brands for Good also provides an opportunity to businesses who have yet to embark on this journey, to kick-start and take small steps in making a difference in society."

According to a Nielsen report, 66% of consumers are willing to pay more for sustainable brands – up from 55% in 2014 and 50% in 2013. Nielsen also reported that the "sales of consumer goods from brands with a demonstrated commitment to sustainability have grown more than 4% globally* in 2015, while those without grew less than 1%". Being a Brand for Good will enable companies to be differentiated, ultimately winning the customers' vote.

Being a purpose-driven brand can also help a company to attract talent from a more socially conscious workforce. This becomes even more critical in today's business climate with the tightening labour supply. With more millennials and very soon Generation Z entering the workforce, businesses will be compelled to unite and motivate its employees with a greater sense of purpose. This next generation of employees have voiced out that they prefer to work for companies that care about creating a better world and who factor this in their business decisions. They also lean more



towards companies who extend this belief to taking good care of their employees.

Mr Chandran Dharmarajan, Head of Branding and Marketing, Maybank Singapore said, "The Maybank brand is about one simple, powerful and unique idea – Humanising Financial Services, which defines the way we do business and treat people. Through demonstrating brand values of integrity, fairness and nurturing relationships based on trust, we want to win hearts and minds of our customers and staff. As a leading bank which helps SMEs to grow in the region, sponsoring the Brands for Good awards that commend companies with outstanding socially responsible business practices was a natural fit."

Brands for Good is organised in partnership with non-profit organisation B Lab, which provides companies with a self-assessment tool kit on social responsibility commitment, as part of the nomination submission to be recognised as a Brand for Good. B Lab serves a global movement of people using business as a force for good. It aims to drive a systematic change by building a global community of Certified B Corporations who meet the highest standards of verified, overall social and environmental performance, public transparency and legal accountability. Other partners include IPOS Society and non-profit organisation The Rice Company Limited. Brands for

Good also has the support of organisations including the Asia Pacific CSR Council and the Singapore International Foundation.

"BBX is proud to be a sponsor of this newly inaugurated recognition program launched by CEO Asia. At BBX, we believe in helping our entrepreneurs and SMEs to expand and grow their businesses, and we are committed to build a world of economic opportunities for our SMEs through our BBX platform. We see this as an excellent opportunity to enable our BBX community to embark on this journey together with Brands for Good companies for a greater cause," Dr Lee Oi Kum, Director of BBX Holdings Pte Ltd.

The Brands for Good award categories span three major spheres – the Workplace, the Community and the Environment – and will include Fair Employment Practices, Workplace Culture and Communications, Workplace Safety, People Development, Diversity and Inclusion, Social Giving and Engagement, Local Market Empowerment, Responsible Supply Chains, Sustainable Re-

source and Environmental Impact Management.

Eligible companies will be assessed by a panel of eight independent judges, who are well-respected business leaders across industries. Submission of nominations have begun and will close on 31 May 2018. The winners will be announced and celebrated at the Brands for Good Award Ceremony on 26 July 2018. Register for Brands for Good at www.brandsforgood.asia/apply/

About CEO Asia

CEO ASIA is a positive impact organisation that bands and supports like-minded businesses to support the development of sustainable enterprises. Focusing on enterprises that intends to develop meaningful brands, CEO Asia's signature programme Brands for Good celebrates companies that are stewards of sustainable business practices which result in positive impact, while its CeoConnect is a membership secretariat service that supports entrepreneurs through business matching and networking.

Upcoming GREEN Events:

World Green Infrastructure Congress '18

26-28 February 2018

Bangalore, India

- www.iginasia.org/wgic.php

The 2018 National Sustainability in Business Conference

8 - 9 March 2018

Grand Chancellor, Brisbane, Australia

- <https://conference.sustainability.asn.au>

Solar Power Asia

19-22 March 2018

Singapore

- www.solar-powerconference.com

Windpower Asia

19-22 March 2018

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- www.wind-powerconference.com

Future Cities Show 2018

9 - 11 April 2018

Abu Dhabi, United Arab Emirates

- www.futurecitiesshow.com/aboutus.html

Middle East Smart Landscape Summit '18

7 - 8 May 2018

Sofitel Dubai The Palm Resort & Spa, Dubai, United Arab Emirates

- www.landscapesummit.com

World Cities Summit

8-12 July 2018

Marina Bay Sands, Singapore

- www.worldcityessummit.com.sg

Bex Asia 2018

5-7 September 2018

Marina Bay Sands, Singapore

- www.bex-asia.com

Singapore International Energy Week

29 October - 2 November 2018

Marina Bay Sands, Singapore

- www.siew.sg/#

Intersolar India 2018

5-7 December 2018

Mumbai, India

- www.intersolar.in