

Young Green Building Individual Award (2013)



Dr. Kelvin Lee Yang Pin (李迎宾博士)

Technical Manager (技术经理)

Samwoh Corporation Pte Ltd (三和私人有限公司)

His work:

Answering the Government's call for sustainable development and the implementation of the BCA Green Mark Scheme, Dr. Kelvin Lee has led his research team to develop numerous recycled materials for construction applications.

Passionate in recycling of waste materials as well as road and airfield pavement research, he is an active member in the Waste Management Recycling Association of Singapore and Pavement Engineering Society (Singapore). He is also a member of the Recycled Material Taskforce at the SGBC and has contributed significantly to the establishment of the assessment guideline for the certification of recycled materials. He actively participates in conferences and seminars to share his in-depth knowledge on green technologies and has published several international technical papers.

For a sustainable future, it is crucial to nurture the green mindset in students, and Dr. Lee does this by initiating green research projects with various tertiary institutions.

As a promising young researcher, Dr. Lee has been awarded several distinguished awards, including the Minister's Innovation Award by the Ministry of Transport and the Star Award at the National Innovation and Quality Circles Convention by the Singapore Productivity Association.

He plans to continue exploring other potential waste materials that can be recycled for construction applications as we move towards a future where, hopefully, nothing will go to waste again.

His projects:

Dr. Lee's current research interests include the use of waste materials in construction applications and pavement engineering. He has developed several recycled materials such as recycled concrete aggregate (RCA) from construction and demolition waste, reclaimed asphalt pavement (RAP) from asphalt pavement waste and incinerator bottom ash (IBA) from refuse waste. He has studied the use of RCA for various applications including road base construction, utility trench reinstatement, concrete in airfield pavement as well as building construction which include the Samwoh Eco-Green Building, the first building in the region constructed using a high content of RCA.

He was instrumental in the adoption of other recycled materials such as RAP and IBA for road construction by LTA, and RCA for airfield pavement by Changi Airport Group. He has also developed many innovative green products for construction applications including recycled scrap tires in asphalt, warm mix asphalt that saves energy and eco-green concrete which has been used in several building projects. Most of his projects were awarded research grants by government agencies and the studies have led to acceptance by the authorities. The use of waste materials for construction is a significant milestone in sustainable development in Singapore which provides environment and economic benefits.

Young Green Building Individual Award (2013)



Dr. Cheyyar Ramanathan Uma Maheswaran

Vice President (副总裁)

*Jurong Consultants Pte Ltd
(裕廊顾问私人有限公司)*

His work:

With a thirst for new knowledge, Dr. Uma's ever-learning spirit has enabled him to achieve a diverse professional background at a young age. He finds it effective and meaningful to spread the practice of sustainability in Singapore by balancing his various roles as a consultant, a researcher, and as a teacher. He is not afraid to question conventional practices in order to identify more productive and holistic solutions.

As a true believer of "total performance" against prescriptive measures, he constantly disseminates his thoughts and observations in his practice and shares with the industry the true meaning of "green design".

Upon joining Jurong Consultants as Vice President in Feb 2010, he initiated an in-house Sustainable Development Unit (SDU), and since then, many attempts had been made to drive sustainable initiatives within his company. His aim is to transform Jurong into a leader in the field of sustainable design and consultancy.

The balance of teaching the current industry and tomorrow's green industry of Singapore gives him the best platform to transmit his key ideals with respect to sustainable design solutions.

His projects:

Besides contributing as a consultant in many local green mark projects, the Khoo Teck Puat Hospital, the Zero Energy Building, and Cleantech II building, Dr. Uma is also a firm believer in the use of intelligent and integrated information systems to improve the built environment industry.

Dr. Uma also spearheaded the development of GM-Pro. It is a software tailor-made in collaboration with Integrated Environmental Solutions (United Kingdom) [IES (UK)] and BCA for Green Mark purposes, which would enhance the overall productivity of Singapore's green industry by at least 50%. This tool will aid architects, engineers and building designers in Singapore by simplifying the Green Mark Assessment process so that its consideration can be integrated into the whole design process, right from the crucial early architectural stages.

Presently, he actively champions the use of BIM for integrated design delivery in green and sustainable buildings.

Green Advocate of the Year Award (2013)



Mr. Mann Young

Head of Sustainability, Asia

(可持续性发展总监, 亚洲)

Lend Lease Asia

Holdings Pte Ltd

(联盛)

His work:

As Head of Sustainability for Lend Lease in Asia, Mann is responsible for driving Lend Lease's sustainability philosophy of "Every Action Adds Up". He embraces the challenge in optimising multi-disciplinary project outcomes that are not only sustainable but also meets the required commercial and business aspirations of all key stakeholders.

Keeping in mind that the community is at the heart of everything Lend Lease does, Mann shares the Lend Lease vision of "Creating the Best Places". This is achieved by having designs that revolve around people and enhancing lives in a positive way and for generations to come. For existing buildings such as Parkway Parade, he believes it has demonstrated that there is real value and business case in pursuing a green retrofit strategy to future proof the overall asset performance and value against ever rising energy cost.

A true green building advocate, Mann is also the Regional Manager of the World Green Building Council Asia Pacific Network which continues to drive collaboration, synergies and capacity building across its 17 country specific green building council members.

His projects:

Lend Lease's JEM®, 313@somerset and Parkway Parade, which received the BCA Green Mark Platinum (GMP) Awards, are leading projects among Mann's most notable project contributions in the local arena, with all three awarded BCA Green Mark Platinum status.

Mann's overseas project contribution includes the Setia City Mall, which is the first mall in Malaysia to win the BCA Green Mark Gold Award.

As a trendsetter, the tech-savvy advocate constantly introduces new innovative technology and programmes to the building sector, with the hopes of seeing a positive revolution in the building industry. The latest topic that he is advocating is the introduction of the Cross Laminated Timber (CLT) innovation into Singapore as a test bed for other parts of Asia, which could be the potential "quantum leap" we have been looking for in our industry.

He continues to passionately advocate the Green Lease Program, to encourage tenant behaviour change, both locally and overseas.

Green Engineer of the Year Award (2013)



Er. Russell Neil Cole

Director / Office Leader
(董事)

Arup Singapore Pte Ltd
(奥雅纳 (新加坡)
有限公司)

His work:

At the heart of Russell's work lies his fervent belief that passive design is a practical, integrated approach that makes commercial sense while helping the environment and creating attractive architectural forms at the same time.

As a technical leader in façade engineering and sustainable building design within this region, he was one of the pioneers who introduced the idea of environmental performance of buildings to local developers and architects. He promoted the idea that passive aspects of the building design can be used to fulfil environmental aims while still creating comfortable and beautiful spaces. In 2006, Russell started the Environmentally Sustainable Design (ESD) business in the Buildings Group of Arup, and to date the team has built a reputation for its passive design expertise.

His unfaltering pursuit for green buildings continues to exude from his numerous project involvement and personal commitment to share his ideas, resources and experiences regularly with the industry through speaking engagements and interviews from journals and magazines.

His projects:

Russell is a strong proponent that space can be comfortable even without the use of air-conditioning. This is most evident in his recent projects that have graced Singapore's urban space, such as Twenty Anson, The Star, Ventus NUS, UTown Residence and other components of NUS University Town, as well as the National Library Building. These are but a few of Russell's iconic green building projects in Singapore.

Under his leadership, Russell and his team provided valuable insights on ESD, façade engineering and building physics on many projects that eventually garnered BCA Green Mark Gold and Platinum Awards.

He believes in an unconventional mindset of achieving energy-efficiency without rebuilding, challenging building owners to reconsider their options. Russell persists in his endeavour of building eco-friendly buildings, sharing his expertise through different channels, carving new paths for Singapore to lead the tropics in green engineering.

Commendation Award (2013)



Er. Teh Poh Suan (戴宝碇)

Director (Building Research) (处长)

Housing and Development Board (建屋发展局)

Her work:

Behind the many green initiatives in HDB lies the work of an exceptional female engineer whose R&D programmes with HDB have a very positive impact not only on HDB but also on the rest of the local construction industry.

Er. Teh Poh Suan has worked in the HDB for 23 years and has contributed significantly to the green building industry in Singapore, in the formulation of policies, guidelines and evaluation criteria, as a member of several inter-agencies committees such as the Solar Capability Task Force, MND Green Building Committee and Sustainable Urban Living Committee, Energy Efficiency Programme Office (E2PO), and the Technical Review Panel for EDB's Clean Energy research programme.

Because she believes in sharing knowledge with the industry, she co-authored and published two books, 'Blueprint of Successes for Public Housing' and 'The Green Housing Book'. The latter is a collation of HDB's green efforts, experience and knowledge in designing environmental sustainable development.

Her projects:

Under the Solar Capability Building Programme, Er. Teh manages a \$31 million large scale solar PV test bedding in HDB precincts, identifying the most optimal and cost effective solar PV solutions for our local environment.

As the Director of Building Research in HDB, she is actively involved in research and development works in sustainability with a focus on five key areas: energy management, urban mobility, water management, resource and waste management and maintenance optimisation. Two of her key projects include the Punggol Eco Town and HDB's Greenprint that will bring about sustainable and better living environment for residents in new and existing towns.

Other contributions in sustainable construction include the implementation of a more sustainable lighter steel lift shaft for Lift Upgrading Programme.

Commendation Award (2013)



Mr. Owen Wee Liam Choo (黄念慈)

Vice-President (Architectural) (副总裁)

Surbana International Consultants Pte Ltd (盛邦国际咨询私人有限公司)

His work:

Owen believes that every person deserves to live in a sustainable environment / building. Since 2008, he has led a Green Core Design Team in Surbana.

Among others, Owen has created an internal online Green Road Map and Green Material Resource System for Surbana's architects to select sustainable materials during the design stage. He also created a pyramid scoring system based on passive principals for design based on Green Mark scoring to benchmark a good sustainable project.

Besides his professional contribution to green designs in local housing projects, Owen also plays his part in educating the young on sustainability through SGBC's outreach projects to schools, given that he has two young children.

His projects:

Owen is a Green Mark Professional. His projects have been awarded the BCA Green Mark Gold, Gold^{Plus} and Platinum awards. These include The Canopy, the first Green Mark Gold^{Plus} Executive Condominium in Singapore.

Owen has worked on many public housing projects, and understands the importance of future maintenance and cost (i.e. life cycle cost). He concentrates on passive architecture and engineering that reduces water and energy consumption. Take his work in Boon Lay Meadows for instance. By introducing a storm water management design system, Owen has made this the first public housing project with half of its rainwater on the landscape area treated. This significantly reduces the load on the main storm water system.

Commendation Award (2013)

Mr. Jerry Ong Chin-Po (王进宝)
Vice-President (Architecture) (副总裁)
CPG Consultants Pte Ltd (新加坡CPG集团)

His work:

Jerry has developed a sensitivity and deep respect for nature ever since his involvement in the Tanjong Chek Jawa, Pulau Ubin project, which gave him the opportunity to see architecture and nature as one entity.

His passion to integrate nature in his designs grew stronger under the Healthcare division in CPG Consultants. He believes in designing innovative hospitals that are people-centric, engage the community and provide a healing environment through integration with nature.

User-friendly designs are also adopted and customised to suit the needs of users, and a constant search for sustainable design solutions to keep energy consumption low is the ultimate goal to achieve a Sustainable Hospital Model.

His projects:

Jerry specialises in the sustainable hospital model designs. He has worked on the Khoo Teck Puat Hospital (KTPH) which not only attained the Green Mark Platinum Award in 2009, but was also awarded the Skyrise Greenery Awards 2010, BCA Universal Design Awards 2011, Futurarc Green Leadership Award 2011, SIA Building Of The Year Award 2011, Winner for the International Sustainable Design Category for the Design & Health International Academy Awards and President's Design Award 2011, Best Green Building Category for the MIPIM Asia Awards 2011. It is a green hospital for the next generation with its extensive use of landscaping and naturally ventilated spaces in creating a very open

concept hospital, with sustainable energy designs by using passive designs in ventilation and façade system, as well as using renewable energy such as solar vacuum tubes and solar heat pumps for the generation of hot water to cater for the complete usage requirements of the hospital.

His current projects include the Ng Teng Fong General Hospital and Jurong Community Hospital, the National Centre For Infectious Disease and Indus Academic Medical Campus in Karachi, Pakistan.

Commendation Award (2013)



Ms. Jaye, Tan Jia Yee (陈佳怡)

Architect (建筑师)

DP Architects Pte Ltd (缔博建筑师事务所 (新加坡) 私人有限公司)

Her work:

Jaye believes that building for the needs of human preservation should not compromise the equilibrium of our natural environment's ecosystem.

Practicing as an architect and sustainable building design consultant, she aims to design eco-friendly built environment for our activities and comfort, while at the same time maintaining harmony with nature's biodiversity through responsible use of resources for our building construction and operations.

Also an active member in the Singapore Green Building Council, she aspires to develop carbon neutral communities, especially in rural ASEAN regions by 'Helping Others Help Themselves' through the three-pronged sustainable principles of Environmental, Economy, and Social.

Her projects:

As the architect of the Green Mark Platinum Landed House 36BTRD, she is currently excited about her design of another building project which is deemed to be the 1st Zero Energy Prefabricated Hemp Building in Singapore. This project unveils a potential prototype for a Modular Prefabricated and Self Sufficient Carbon Neutral building that not only caters to multiple activity functions, but is also eco-friendly and provides desired comfort levels for occupants.

In her course of work as an ESD consultant in DP Architects, she has worked on multiple projects such as the NUS University Town and SUTD, which achieved BCA Green Mark Gold^{Plus} and Platinum awards because of the sustainable masterplan design and integrated Total Building Performance.

She sees great meaning in her work to entrench practical sustainable solutions, starting from passive architectural design, and hence continues to contribute in this aspect to a myriad of DP projects of various building typologies, such as hospital, office, residential, institutional and masterplan.