GREEN CONSTRUCTION
Achieving Sustainable Living for Future Generation

23 September 2014 • HDB CENTRE OF BUILDING RESEARCH

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Featuring Industry Leaders and Experts:

**Er. Yvonne Soh**  
General Manager  
Singapore Green Building Council

Yvonne is a registered Professional Engineer (Civil) with extensive experience in the government sector, having been with the Building and Construction Authority (BCA) for a decade managing various portfolios in sustainable construction, regulatory & building control, technology, and research & development. Yvonne began her career as an engineer with P&T Consultants, an international multi-disciplinary building and construction consultancy firm, where she gained practical experience in the development of buildings.

**Ms. Rosana Wong**  
Managing Director  
Yau Lee Construction (Singapore) Pte Ltd

Ms. Rosana Wong is the Managing Director of Yau Lee Construction (Singapore) Pte Ltd and the Executive Director of Yau Lee Holdings Limited. Ms. Wong has over a decade of experience and plays a pivotal role in managing critical functions in Yau Lee. She also leads and manages the Group’s green environmental friendly developments, for instance, low carbon building materials, green technologies and optimization, Intelligent concrete, Building Information Modelling and Virtual Design & Construction. Under her leadership, Yau Lee has excelled into a green integration corporation internationally.

**Mr. Owen Wee**  
Vice President (Architectural)  
Surbana International Consultants Pte Ltd

Owen currently heads the Archi Green Core in Surbana and a registered Green Mark Professional with Singapore Building Construction Authority. He has spoken in international and local conferences on his hands-on experience and green beliefs. He has won several accolades and commendable awards for his designs. He believes that all buildings can be and should be green, he put this belief into action in his drive toward sustainable design and construction when he advised all design teams within Surbana to attain higher level of sustainability for each project.

**Er. Joseph Goh**  
Green Specialist  
IES Re-Development Taskforce

Er. Joseph Goh is a Professional Engineer (Mechanical) and had served IES in the design of their new annex building as the Green Specialist. His background and qualifications in Mechanical Engineering has assisted Joseph in his leadership role developing sustainable design features for IES Singapore obtaining BCA’s Green Mark Platinum in 2014 and also in previous years obtaining BCA’s Platinum award for 313@Somerset in Orchard Road and Xilin Asia Pacific in the Changi Business Park, Singapore. Joseph has a Bachelor of Mechanical Engineering (Honours, Gold Medal) from the Nanyang Technological University.

**Dr. Kelvin Lee Yang Pin**  
Ph.D, B.Eng (Civil), M.PES, M.IES  
Senior Technical Manager  
Samwoh Corporation Pte Ltd

Dr. Kelvin Lee holds a doctorate degree in civil engineering from the National University of Singapore. He has more than 10 years of research and industry experience and has been involved in many consultancy works in the recycling of waste materials for construction applications. As a Senior Technical Manager, he heads the company’s Research and Development Centre to develop innovative green and recycled materials for various construction applications. He has led numerous projects which were awarded research grants from government agencies on the development of green technologies and recycling of waste materials. Through these projects, many recycled materials have been accepted by the authorities for construction applications.

**Mr. Joseph Yong**  
Chief Operating Officer  
NatSteel Holdings Private Limited

Mr. Joseph Yong is presently the Chief Operating Officer of NatSteel Holdings Private Limited, a subsidiary of National Iron & Steel Corporation in 1961. NatSteel Holdings has been producing quality reinforcement steel products and services to the local construction industry. Since joining the company as a graduate engineer, Mr. Yong held various portfolios with the company including maintenance, engineering development, research & development, Operations, as well as overseas assignments. Mr. Yong also participated in various professional organizations like Institute of Electrical and Electronic Engineers and American Institute of Steel Technology. He is also the current Technical Director of South East Asia Iron and Steel Institute as well as a Metal Working Industry Council Member of Singapore's Workplace Safety & Health Council.

**Er. Teo Yann**  
Director  
Squire Mech

Er. Teo Yann graduated with a Bachelor of Engineering (Mechanical) degree from the National University of Singapore in 1985. Upon graduation, he worked with various contractors with significant projects such as Singapore MRT Phase II, Singapore MRT Phase II and Seletar Sewerage Treatment Plant Expansion, to name a few. Er. Teo joined Squire Mech in 1990 as an Executive Engineer, obtained his Professional Engineer in 1994, was made an Associate Director in 1996 and a Director in 2005. Since he joined Squire Mech, he has worked on numerous projects in major cities of China and Vietnam.

**Seah Hsiu-Min, Eugene**  
Group Managing Director  
Langdon & Seah Singapore Pte Ltd

Eugene Seah is leading the drive in Building Information Modelling and Contract and Dispute Management. He is involved in projects and hands-on with getting value and quality services to his clients and the project team. Eugene also embelishes the Quantity Surveying scope with sustainable economics, green approaches and BIM with the views of project efficacy. Besides core Quantity Surveying work, he researches into Value Management, Risk Management, Sustainability Management, Law and Contracts, Information Technology in Construction as well as Project Management and lectures on Green Issues in Singapore and overseas.

**REGISTER TODAY!**

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**8 Reasons to Attend the Event**

1. Important review on green construction trends
2. Find out the opportunities and challenges of green construction
3. Insights into going green through scrap recycling
4. Learn cost benefit analysis (CBA) consideration for eco-construction
5. Obtain new updates on sustainable building materials
6. Look into recycling of waste materials to be used for construction applications
7. Practical learning through case studies discussion on sustainable construction
8. Discuss with your peers on the future of green construction

**Who Should Attend**

The event is designed for professionals who are involved in the building and construction activities including, but not limited to:

- Government Officials
- Project Owners
- Developers
- Contractors
- Engineers
- Material Suppliers
- Architects
- Structural Engineers
- Management Consultants
- Quantity Surveyors
- Facilities Management

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**Are You Doing Your Part For The Environment?**

By 2016, construction companies that plan to participate in public projects have the responsibility to fulfill green standards established by the Building Control Authority (BCA).

In order to enforce environmental protection and minimise the impact of construction activities, large- and medium-sized firms will only be included under Building Construction Authority’s registry only if they are certified under the Green and Gracious Building Scheme.
Green Construction
Main Programme
12 August 2014, Tuesday

08:30 – 09:00
Registration

09:00 – 09:10
Welcome Address by K2B

09:10 – 09:20
Welcome Address by Chairman

09:20 – 09:50
Er. Yvonne Soh
General Manager
Singapore Green Building Council

Green Construction Trends
The growth of green buildings across the world has been exponential in recent times and there is greater interest than ever to measure sustainability as it enables building professionals to make more informed decisions. This presentation will look into some of the drivers for green construction, beyond greater efficiencies in energy and water. In particular, green products and materials are of interest as they form a key part of the construction supply chain and are essential to achieving a sustainable built environment. Green procurement processes have also provided the momentum for a life cycle evaluation of goods and services.

10:00 – 10:50
Ms. Rosana Wong
Managing Director
Yau Lee Construction (Singapore) Pte Ltd

Embrace Challenges: Turning Green Construction into Reality
With the issues of climate change, the demand for green construction is ever growing. To stay competitive, all stakeholders including contractors must “go green” and the transition to becoming a sustainable contractor is probably the biggest challenge to the industry. As a global integrated green corporation, Yau Lee Group is embracing this challenge as opportunity to move green construction forward. The speaker will share the Group’s green journey from planning to adoption within the project full life cycle and explore how lean construction can ultimately enhance our eco system.

10:50 – 11:20
Mr. Owen Wee
Vice President (Architectural)
Surbana International Consultants Pte Ltd.

Designing for Sustainable Construction
As the world moves into the next phase of Sustainability in Buildings and construction, design and methodology now plays an even more important role in producing a holistically sustainable building. Through this presentation, Surbana will share their experience in changing their design methodology and ideology in designing sustainable building, which led to them to achieve more than 25,000 homes attaining higher BCA Green Mark awards.

11:20 – 11:50
Er. Joseph Goh
Green Specialist
IES Re-Development Taskforce

Case Study in Discussion: Green Building at Institution of Engineers, Singapore
The Institution of Engineers, Singapore (IES), established as the national society of engineers, has added an annex. The Green Building was conceived to better allow members to gather and network, as well as participate in activities. In addition to training rooms, it also houses the secretariat. This building is not only just a functional building but would be used for Eco tours where local and overseas visitors could learn about green and sustainable design and construction. The building is designed to be very energy efficient and taps on solar energy as well such that it achieves close to 50% energy savings.

11:50 – 12:00
Dr. Kelvin Lee Yang Pin
Ph.D, B.Eng (Civil), M.PES, M.IES
Senior Technical Manager
Samwoh Corporation Pte Ltd

Use of Recycled Materials for Construction Applications in Singapore
Singapore is a small country with limited natural resources. In order to achieve environmental sustainability, the government has been promoting the recycling of waste materials to be used for construction applications which help to alleviate waste disposal problems and also provide an alternative to natural materials. Over the years, Samwoh Corporation Pte Ltd, a leading integrated engineering company, has developed many recycled materials for construction applications which have been approved by the authorities. This presentation describes some of the recycled materials that can be or has been used for construction applications in Singapore. The waste materials discussed include construction and demolition waste, asphalt pavement ash as well as incinerator ash that is generated from the incineration of solid waste.

12:20 – 13:30
Lunch

13:30 – 14:00
Mr. Joseph Yong
Chief Operating Officer
NatSteel Holdings Private Limited

Going Green by Scrap Recycling
NatSteel, the only steel mill in Singapore with the largest scrap recycling operation in the region and one of the world’s leading construction steel fabricator, produces reinforcement steel using 100% recycled metal waste. The company deploys one of the world’s most efficient steel making electric arc furnace to convert waste metal to finished products. Steel recycled from domestic metal waste is generating the lowest CO2 per ton of steel, thus contributing to the sustainability of one of the key building materials for Singapore Construction industry. This is in line with the government’s drive for environmental sustainability, recycling of metal waste and going green.

14:00 – 14:30
Mr. Teo Yann
Director
Squire Mech

Consideration for Eco-Building Services in Support of Green Construction
With increase urbanisation, the increase in Built Environment is inevitable. However, we have a choice by how we design to support the Built Environment; ie we can design building with greater dependence on energy usage or building that harness the positive contribution of the natural environment and as such, is lesser dependence on energy usage to operate the building. With better means to harness the positive contribution of the natural environment would entail better passive consideration such as building orientation, façade provision, sun shading, day lighting, adopting natural ventilation and the likes. Besides passive consideration, active design consideration such as design of variable controls, efficient equipment, energy recovery and the likes will also help to greatly reduce the usage of energy to operate the building.

14:30 – 15:00
Seah Hsii-Min, Eugene
Group Managing Director
Langdon & Seah Singapore Pte Ltd

Cost Benefit Analysis
Cost is the bottom line of all project. It makes or breaks a project. No matter what design is churned out, cost matters. Therefore, it is important to get the cost right in order to have the right business case and business model. Cost drivers guide to the design and design drivers. It contributes to the value drivers of a project. This seminar thus discusses the role of Cost, Cost Modelling and how it contributes to Cost Benefit Analysis. If the operational and maintenance cost benefit of a product or design outweighs the capital cost, there is a business case for the product and design. This presentation also illustrates what are the tools can be used for CBA, including simulation and models.

15:00 – 15:30
Networking break

15:30 – 16:00
Panel Discussion: Future of green construction

16:00
Summary and close
Register 4 delegates at the price of 3, paying at standard rate before 29 August 2014!

DELEGATE DETAILS
Please photocopy for additional delegates and/or delegate with different addresses.

Delegate 1 Name: ___________________________   Mr  Mrs  Ms  Dr  Other
Job Title: ___________________________   Email: ___________________________
Delegate 2 Name: ___________________________   Mr  Mrs  Ms  Dr  Other
Job Title: ___________________________   Email: ___________________________
Delegate 3 Name: ___________________________   Mr  Mrs  Ms  Dr  Other
Job Title: ___________________________   Email: ___________________________
Invoicing Contact: ___________________________   Phone: ___________________________
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ACCOMMODATION INFO
Accommodation and travel costs are not included in the training fee.

Once you have completed, signed and sent this training registration form to K2B International, we will email you a delegate welcome pack. You will receive the hotel's booking form in this pack which you can fax to the hotel to reserve your room at a discounted rate.

EVENT VENUE
HDB Centre of Building Research
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Singapore 738973

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