SHARED VALUES & VISION FOR THE CONSTRUCTION INDUSTRY

An IES SEMINAR On

Reduce, Reuse & Renewable

Date : 17 Oct 2012, Wednesday
Time : 9.00am – 4.50pm
Venue : Concorde Hotel
        100 Orchard Road
        Singapore 238640
Organiser : Institution of Engineers, Singapore (IES)
Coordinator : C&S Engineering Technical Committee (Special Task)
Fees : $200 (IES members)
       $250 (NON-members)
       $220 (ASCE, ACI-Singapore Branch, PPCS, IStructE, SCI,
       CIJC: ACES, REDAS, SCAL, SIA, SIBL, SISV & SPM)
CPD Program : 6 PDUs (To Be Confirmed)
               6 STUs (Confirmed)

Note:
*Buffet lunch with refreshing coffee breaks
*Seminar folder with speakers’ notes
*Certificate of Attendance
# PROGRAMME OUTLINE

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<td>Welcome Address By Er Koh Beng Tong</td>
<td>Chairman, Civil &amp; Structural Engineering Technical Committee</td>
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<td>By Er Koh Beng Tong</td>
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<td>09:15</td>
<td>Could you win the Singapore Formula One Grand Prix with a punctured tyre?</td>
<td>By Mike Rodgers &amp; Steve Peters, Air Barrier Technologies – Singapore</td>
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<td>10:00</td>
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<td>By Eugene Seah of Langdon &amp; Seah Singapore Pte Ltd</td>
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<td>Global Warming, Green Building Design and Our Role</td>
<td>By Alan Foo, CPG Consultants</td>
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<td>A study of solar installations in Singapore</td>
<td>By Eddie Lee, Renewpowers Technologies Pte Ltd</td>
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<td>By Martin Chesson, Divisonal Director at Mott MacDonald</td>
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<td>14:40</td>
<td>Sustainable Design – the Design and Build Way</td>
<td>By Joanna Wong, Meinhardt Infrastructure Pte Ltd</td>
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<td>Sustainable Steel Recycling in Singapore</td>
<td>By Joseph Yong, NatSteel Holdings Pte Ltd</td>
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<td>Panel Discussion (Q&amp;A) #2</td>
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Could you win the Singapore Formula One Grand Prix with a punctured tyre?

Abstract
Visualise a building as a tyre on a vehicle! Consider that air conditioning systems pump cooled air under pressure into buildings and effectively inflate the area. Just as a punctured tyre effects the performance of a vehicle, the same applies to a punctured/leaky building affecting the performance of a building. Excessively leaky buildings require extra effort from air conditioning systems to compensate for uncontrolled air either escaping from or penetrating the building. In the past the solution has been to fit larger capacity systems and accept that nothing can be done to lower their operating costs. Air Barrier Technologies can test and verify air leakage rates and seal buildings to lower these rates. In the case of new buildings it can offer design and test services. The end result is lower operating costs and improved indoor air quality. Just as you couldn’t win the Grand Prix with a puncture, you can’t win the building sustainability grand prix with a punctured building.

CV of Speaker
Managing Director of Air Barrier Technologies – Singapore Pte Ltd and a Director of Air Barrier Holdings Pty Ltd (Australia). He has been involved in the business for two & a half years and is specifically responsible for sales & marketing within Australia. Prior to coming into the business he was a franchisee for McDonald’s Family Restaurants – Australia for fourteen years and was the owner/operator of three stores in Victoria. During this time he has chairman of the franchisee marketing cooperative and also involved on several national marketing and public relations committees. Before McDonald’s he was a member of the Victoria Police Force for 25 years and retired at the rank of Superintendent.
Speaker
Eugene Seah, Langdon & Seah Singapore Pte Ltd

Title of Paper
Green & Sustainability - The Andy Williams Story

Abstract
Like the song from Andy Williams; “Where Do I Begin”, this presentation touches on the fundamentals of sustainability and what are the salient points in sustainability in terms of choosing materials and adopting sustainable design strategies. with cost as just one of the underlying factors.

CV of Speaker
Eugene is the Deputy Chairman of Langdon & Seah Singapore Pte Ltd and the representative in the Sustainability Group as well as the Airport group. He is involved in projects and is hands-on with getting value and quality services to his clients and to the project team. Eugene also embellishes the Quantity Surveying scope with sustainability and green approaches with the views of project efficacy.

Besides core Quantity Surveying work, Eugene researches into Value Management, Risk Management, Sustainability Management, Law and Contracts, Information Technology in Construction as well as Project Management. He also lectures on Green Issues in Singapore and overseas.

Eugene is a registered Mediator in the Singapore Institute of Surveyors and Valuers as well as an Adjudicator in the Singapore Mediation Centre and is committed to continuous professional development. He is also a registered member of the Singapore Institute of Building, The Royal Institute of Chartered Surveyors, Society of Project Managers and an Associate of the Australian Institute of Quantity Surveyors. In 2010, he became a Fellow of The Singapore Institute of Surveyor and Valuers. Driven by his passion for teaching, he is an Adjunct Assistant Professor at the National University of Singapore. He frequently lectures on Sustainable Economics for the Green Mark Manager Course in Singapore and the Green Building Index in Malaysia among others. He also participates in the UNEP Regional Status Reports on Sustainable Polices and is a Technical Coordinator in the Singapore Green Building Council. Recently he has been appointed an Honorary Certified Construction Productivity Professional by the Building & Construction Authority of Singapore and has obtained his Masters of Science in Sustainable Building Design, one of the first QS to obtain the certificate.
Speaker
Alan Foo, CPF Consultants Pte Ltd

Title of Paper
Global Warming, Green Building Design and Our Role

Abstract
Synopsis: Topic will touch on some introduction on global warming, reasons for green building design, and consultant roles in fighting global warming. Some case studies like Gardens by the Bay, Medical School MD 1 and other green buildings are introduced.

CV of Speaker
With mechanical engineering background, Alan completed Master of Engineering Science in Refrigeration and Air Conditioning (UNSW, Australia) at 2004 and Master of Science in Sustainable Building Design (UoN, UK) at 2012. He is also Singapore Certified Energy Manager and BCA Green Mark Manager who helps building owner/developers in energy auditing and green building design. Alan has completed various energy audit projects for commercial office, shopping malls, schools and hotels. Recent completed green building projects that led by Alan was Gardens by the Bay (Platinum), MD 1 at NUS (Platinum), Prisons Headquarters (Platinum) and few overseas projects.
Speaker
Eddie Lee, Renewpowers Technologies Pte Ltd

Title of Paper
A study of solar installations in Singapore

Abstract
This presentation will focus on case studies of several solar installations in Singapore undertaken by the author's company. It will cover system design, pre-installation preparation, component selection and matching, testing and commissioning, product warranty and after-sales service. You will learn how to produce your own electricity with sunlight and eliminate or reduce the need for utility power.

CV of Speaker
Mr Eddie Lee graduated with Diploma in Electrical Engineering from Ngee Ann polytechnic and BSc (Hons) in Building management with the University of Bradford. He is the Managing Director of Renewpowers Technologies Pte Ltd which provides design, engineering, supply, installation and maintenance of solar power, solar thermal (hot water), wind turbines and other renewable energy systems in Asia Pacific. He has over 10 years of experience in the solar industry. His previous work experience includes 7 years in Building Management Systems and Intelligent Building Systems with Siemens. An active member of SEAS, Eddie also contributes his time as solar trainer by assisting SEAS, ITE, NEA & SEI in developing and delivering quality environment training programmes.
Abstract
We are surrounded by renewable energy options, whether it is recovering the energy from organic resources, solar energy or capturing the energy from the wind and sea. So why are power plants based on hydro carbons still the dominant source of electric power? What is clear is that in many cases renewable energy requires a customised distributed local solution whether it is a hydro power dam configured to the landscape and climate or a biomass project firing farm waste. Also due to the intermittency of renewable resources (solar and wind), some renewable energy options cannot be considered on its own if they are to supply base load to meet demand requirements. Ensuring renewable energy projects are configured to the local environment in terms of physical and commercial perspectives is essential for often ambitious national targets to be achieved.

CV of Speaker
Martin Chesson, BSc CEng MIMechE, is a Divisional Director at Mott MacDonald in Singapore and is the Regional Director for Power Projects in the South East Asia region.

Martin is a Mechanical Engineer with over 30 years of experience in the power and oil and gas sectors with a strong background in technical advice, project management, power plant design, contract development and financial analysis. Has been deeply involved in the development and review of I(W)PP/PFI documentation, including power purchase agreements, EPC contracts, LTSA’s, fuel supply agreements and other related contract documentation.

Strong background in working closely with financial and legal advisors to develop project documents and supporting clients in project development and negotiations.
Abstracts
Sustainable design has been successfully implemented in a number of designs and build projects. Has cost always been the problem for implementing a sustainable design? Is design and build project always place cost effectiveness as the primary objective for design? Then, how can sustainable design be implemented cost effectively in Design and Build project? Case studies will be discussed in this session to review how sustainable design can be implemented cost effectively in projects.

CV of Speaker
Er. Wong Pui Fun, Joanne is the Associate Director of Meinhardt Infrastructures Pte. Ltd. She graduated from Imperial College, University of London with Master Degree in Concrete Structure. She is also an accredited Adjudicator in Singapore. She has more than 25 years of experience in the field of Civil, Structural and Building Engineering which include commercial, residential buildings, infrastructure projects etc. She was involved in the completed Platinum Green Mark Project 313@somerset and Garden- by-the-bay. She is recently working on LTA DTL3 Design and Built Project Tai Seng Facility Building. She is also Specialist Green Consultant for SingSolar Pte Ltd.
Speaker
Joseph Yong, NatSteel Holdings Private Limited

Title of paper
Sustainable Steel Recycling in Singapore

Abstract
Steel is an essential building material and Singapore is one of the world’s largest consumer of steel per capita. As the country expands and renews itself, so will most of this important material be reused. Recycling metal scrap and transforming it into a High Quality and Green construction material is an art. NatSteel is in the forefront of metal recycling in Singapore producing about 0.7million tonnes of Green steel annually. The energy used for its recycling process can already be benchmarked against some of the world’s best."

CV of Speaker
Joseph Yong is presently the Chief Operating Officer of NatSteel Holdings Private Limited. NatSteel Holdings is a wholly owned subsidiary of Tata Steel Limited, India. Since its incorporation 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, applied 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.
Registration Form

Title: 1-Day seminar on Reduce, Reuse & Renewable

Date: 17 October 2012, Wednesday

Time: 9am – 4.50pm

Venue: Concorde Hotel, 100 Orchard Road Singapore 238640

CPD Programme: 6 PDUs (To Be Confirmed) / 6 STUs (Confirmed)

Fees: $200.00 (IES Members)  $250.00 (Non-Members)  $220.00 (ASCE, ACI-Singapore Branch, PPCS, IStructE, SCI, CIJC: ACES, REDAS, SCAL, SIA, SIBL, SISV & SPM)

Please register online/mail/fax the completed form by **09 October 2012 before 3pm** to:

Karen Phua
IES Academy
70 Bukit Tinggi Road(289758)
Tel: 6463 9211  Fax: 6463 9468

Participant Details

Name: ___________________________  NRIC: ___________________________

Company: ___________________________  Designation: ___________________________

Address 1: ___________________________  (For mailing of invoice and receipt)

Address 2: ___________________________  (For mailing of Certificate, if address is different from above)

Postal Code: ___________________________  Sex: ___________________________  Male / Female

Tel: ___________________________  Fax: ___________________________

Email: ___________________________

Please indicate:

- IES members  IES M’ship No.: __________  P.E. No.: __________
- Non-members
- Affiliated members  Org. Name: __________  M’Ship No. __________

Contact Person Details  (if different from participant)

Name: ___________________________  Designation: ___________________________

Tel: ___________________________  Fax: ___________________________

Email: ___________________________

Payment Details

Bank / Cheque No.: ___________________________  Amount ($): ___________________________

* All Fees are inclusive of 7% GST.

Cheque should be made payable to: “IES”  □ Pls tick here if sponsored by company

Acceptance of Terms and Conditions for Registrations of IES Academy’s Events

I agree to abide by the Terms and Conditions for Registration of IES Academy’s Events.

Name: ___________________________  Signature: ___________________________
TERMS & CONDITIONS COURSE REGISTRATION

Registration

Any registration, whether on-line or fax will be on a first-come-first-served basis and will only be confirmed upon receipt of full payment by The Institution of Engineers, Singapore (IES) unless otherwise invoice to company.

All registrations must be submitted with duly completed registration form.

Email registrations will not be accepted.

Closing Date & Payment

The closing date of the event will be 7 days prior to event commencement date. Cheques should be crossed ‘A/C payee only’ and made payable to ‘Institution of Engineers, Singapore’ or ‘IES’, with the Title of The Event indicated clearly written on the back of the cheques, and submitted with the duly completed registration forms to:

IES Academy
70 Bukit Tinggi Road
Singapore 289758

Confirmation of Registration

Confirmation of registration will be given 7 days prior to the commencement date via email. If you do not receive the said confirmation email, you are required to contact IESA general admin immediately at 6463 9211 (office).

IESA reserves the right to allow only confirmed registrants to attend the Event.

Withdrawals/Refunds of Fees

Notice of withdrawal must be given in writing to IESA. Policy on refund of course fee is as follows:

- FULL refund if we receive your written notice of withdrawal at least 7 days before the commencement of the Event.
- NO refund otherwise.

No show of participant would not be accepted as reason for withdrawal/refund.

Replacement is allowed but restricted to once only. Replacement will be allowed only if written notice is received by us at least 3 days before the commencement of the event. However, when an IES member is replaced by a non-member, the participant has to pay the difference in the relevant fees at least 3 days before the commencement date.

Cancellation/Postponement

Changes in Venue, Dates, Time and Speakers for the Events can occur due to unforeseen circumstances. IES reserves the full rights to cancel or postpone the Event under such circumstances without prior reasons. Every effort, however, will be made to inform the participants or contact person of any cancellation or postponement.

Fees will be refunded in FULL if any Event is cancelled by IESA.

Enquiries

For further enquiries, please contact IESA general office at Tel: 6463 9211.