16 & 17 MAY 2012
THE SANDS EXPO & CONVENTION CENTRE, MARINA BAY SANDS
10 Bayfront Avenue Singapore 018956

ORGANISED BY:

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SUPPORTED BY:
WEDNESDAY 16 MAY 2012
9.00AM - 5.00PM (Registration starts at 8.30am)

AM
CONFERENCE AGENDA DAY 1
Innovative use of materials and equipment

TOP 10 EQUIPMENT SUPPORTED BY MECHANISATION CREDIT AND PRODUCTIVITY IMPROVEMENT PROJECT SCHEMES
- Construction Productivity and Capability Fund
- Outreach programmes
- Success stories
Er Rose Nguan, Assistant Director, Building and Construction Authority

AN ALTERNATIVE CONSTRUCTION TECHNIQUE FOR LANDED HOUSES - THE LIGHT GAUGE STEEL AND DRYWALL
- Design, construction and maintenance considerations
- Strength, acoustic and durability
- Productivity and cost benefits
Mr Khor Yew Chai, Managing Director, SG Concept Builder Pte Ltd

THE ULTIMATE MODULAR HOUSING SYSTEM - UNITISED BUILDING™ SYSTEM
- Speedy design and construction of Unitised Building™ system
- Case study in Australia
- Compliance with Singapore’s regulatory requirements
Mr Nonda Katsalidis, Founder & Director, Unitised Building Limited
Mr Marc Johnson, CEO, Unitised Building Limited

THE GIANT CRANE - CONSTRUCTION OF A SIX-STOREY FULLY PRECAST CONCRETE FACTORY
- Project challenges
- Buildable features - precast column, beam and slab
- Design and construction of giant crane
- Productivity impact
Mr Bhvvanessaran Muthu, Business Development Manager, BD Cranetech Pte Ltd

INTEGRATING PRODUCTIVITY AND SUSTAINABILITY - THE FABRIC DUCTWORKS FOR ACMV SYSTEMS
- Comparative performance of fabric and metal ductworks
- Design concept of fabric ductworks
- From concept to reality
- Global and Singapore case studies
Mr David Mackerness, General Manager, The LGM Group Pte Ltd

PM
CONFERENCE AGENDA DAY 1
Smart design and management

PRECAGES - AN ANSWER TO THE PRODUCTIVITY AND MANPOWER CHALLENGES
- Tangible and intangible benefits
- Improved productivity and reduced manpower onsite
- Cost benefit analysis
Mr Joseph Yong, Chief Operating Officer, NatSteel Holdings Pte Ltd

PREFABRICATED M&E PRACTICES - THE EXPERIENCES IN JAPAN
- Design and integration considerations
- Automated M&E production system
- Project planning and site coordination
Mr Masahiro Indo, Director, Construction & Production Technology Division, Shimizu Corporation, Japan. Member of BCA’s International Panel of Experts on Construction Productivity and Prefabrication Technology

MODULARIZATION: KEYS FOR TRANSFORMING PRODUCTIVITY AND THE CONSTRUCTION INDUSTRY
- Critical success factors for modularization and factors for increasing productivity
- Modularization maximization enablers needed from industry
- Case studies in US construction industry
Dr James O’Connor, Professor, Civil, Architectural and Environmental Engineering, Construction Engineering and Project Management, University of Texas at Austin. Member of BCA’s International Panel of Experts on Construction Productivity and Prefabrication Technology

EFFICIENT PRECAST CONCRETE DESIGN FOR PRODUCTIVE SITE CONSTRUCTION
- Precast Construction - Possible solution to creative architectural expression
- Design of precast elements and joints to facilitate production and installation
Er Wong Wai Yin, Managing Partner, Advan-TIS Consultants LLP

DESIGN AND MATERIAL CHOICE FOR ACHIEVING HIGHER PRODUCTIVITY AND QUALITY
- Concrete works, finishing works, doors and bathrooms
- New materials and tools
Mr Rajendran Ramamoorthy, Senior Executive Development Officer, Building and Construction Authority

ACCREDITATION
BOA-SIA: 6 CPD points (for 2 days conference)
PEB: 7 PDUs (per day)
IES & ACES: 6 STUs (per day)

Note: 2 tea breaks and lunch will be provided for both days. Course materials will be available online to the participants on the conference date.

Revised on 20 April 2012
As part of the efforts to drive productivity, the Building and Construction Authority (BCA) of Singapore will be organising the Singapore Construction Productivity Week from 14 to 18 May 2012. The Week will feature three key events. They are the Skilled Builders Competition and BIM Competition including MOU signing between BCA and HDB, the Build Smart Conference and the BuildTechAsia 2012 which is an exhibition on construction machinery, building materials, BIM and IT services.

The objective of the Build Smart Conference is to share best practices and showcase exemplary projects which have successfully adopted productive methods of construction. Join us to find out how prefabricated modular housing system can improve site productivity. Looking beyond our shores, you can learn from the overseas speakers on the best practices in their countries.

THURSDAY 17 MAY 2012
9.00AM - 5.00PM (Registration starts at 8.30am)

AM

CONFERENCE AGENDA DAY 2
Advancing with BIM & Construction IT (Part I)

PRIZE PRESENTATION TO WINNERS OF SKILLED BUILDERS COMPETITION AND BIM COMPETITION, INCLUDING MOU SIGNING BETWEEN BCA AND HDB

BIM IMPLEMENTATION IN WORLD RENOWNED ARCHITECT FIRM
• HOK’s journey to BIM
• Current Workflows and Integration
• Future Trends
Mr Lee Miller, Vice President, Director of BIM Services HOK

BIM 5D FOR ENGINEERING AND CONSTRUCTION
• The definition of 5D
• The challenges
• The potential of 5D in project life cycle
Mr Sanjay Sivanandan, Vice President (Global Operations), RIB Ltd

A PERIOD OF TRANSITION, CO-ORDINATION AND DOCUMENTATION THROUGH BIM ON THE SINGAPORE SPORTS HUB
• A brief overview of the BIM journey on the Sports Hub.
• How we use it, why we use it, when we use it. Where it works, where it doesn’t.
• New working processes and contractual frameworks required to make the most of BIM. A new era for effective collaboration.
Mr Marcel Finlay, Senior Design Manager, Dragages Singapore

SINGAPORE BIM GUIDE AND EXECUTION PLAN
• A BIM Guide for local practice, and its relationship to the BIM Execution Plan
• BIM deliverables and new BIM roles
• BIM delivery methods and BIM modelling workflows
Mr Phil Lazarus, Senior BIM Specialist, Arup Singapore Pte Ltd

ACREDITATION
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PEB: 7 PDU’s (per day)
IES & ACES: 6 STUs (per day)

PM

CONFERENCE AGENDA DAY 2
Advancing with BIM & Construction IT (Part II)

ATTAINING EFFICIENCY AND PRODUCTIVITY WITH BIM
• Harnessing BIM for productivity
• 10 years of BIM in steel fabrication
• Using BIM in design and fabrication
• Case study: Supertrees at Gardens by the Bay
Mr Leif Granholm, Senior Vice President, Tekla B&C BIM
Dr Ng Yiaw Heong, Executive Director and Head of Engineering, TTJ Design and Engineering Pte Ltd

LEGAL FRAMEWORK AND SINGAPORE’S BIM CONDITIONS
• Framework for BIM implementation and use of BIM
• Legal obligations and liabilities during BIM collaboration
Mr Paul Wong, Partner, Rodyk & Davidson LLP

BIM ADOPTION JOURNEY: A CONTRACTOR EXPERIENCE
• Learning points
• Productivity gains through BIM adoption
• Future plans
Mr T J Choo, Project Director, Kimly Construction Pte Ltd

BIM WORKFLOW: A MULTI-DISCIPLINARY APPROACH
Mr Heng Wee Meng Gerard, Assistant Vice President (Architectural), Surbana International Consultants Pte Ltd

HARNESSING REAL TIME INTEGRATION TO IMPROVE ENTERPRISE AND PROJECT PERFORMANCE
• Integrating financial and project management systems
• Knowledge management and building up capability
• Experience of US contractors
Mr Damon Stevenson, Director of International Business, CMIC

WORKERS DEPLOYMENT AND TRACEABILITY FOR UNDERGROUND CONSTRUCTION PROJECTS
• Technology for access control
• Case studies of LTA's projects
Dr Gan Oon Peen, Research Scientist & Group Manager, Singapore Institute of Manufacturing Technology Technical Lead, National RFID Centre Singapore

LEVERAGING ON IT TO ENHANCE EFFICIENCY OF PROJECT DELIVERY
• Drawing management
• Workforce optimisation and deployment
• Materials procurement and deployment
Ms Zann Wong, Business Solutions Manager, Synergix Technologies Pte Ltd

Note: Additional papers may be included for Build Smart Conference.
To register for the conference, please do so online at www.bcaa.edu.sg or fill in the Registration Form below. Payment may be made online by credit card or company GIRO. Online registration will be accorded priority for the limited vacancies for the free site tour to the Tiong Seng Precast Hub on 18 May 2012.

**REGISTRATION FORM**

**Build Smart Conference 2012**

**CONFERENCE FEES (Inclusive of GST. Please tick accordingly)**

<table>
<thead>
<tr>
<th>EVENT CODE</th>
<th>DAY 1 (16 MAY 2012)</th>
<th>DAY 2 (17 MAY 2012)</th>
<th>2 FULL DAYS (16 &amp; 17 MAY 2012)</th>
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<tr>
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<td>SGD 224.70</td>
<td>SGD 406.60 (Discounted Package)</td>
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<td></td>
<td>• Innovative use of materials and equipment</td>
<td>• Advancing with BIM &amp; Construction IT (Part I &amp; II)</td>
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**INDIVIDUAL PARTICIPANTS**

Name: Dr/Mr/Mrs/Ms: ____________________________
Designation: ____________________________
Hp no.: ____________________________ Email: ____________________________

ENCLOSED IS A CHEQUE NO. ____________________________ FOR S$ ____________________________

**PAYMENT**

OR DEDUCT FROM GIRO ACC. NO. ____________________________ (SHOULD BE THE SAME BANK ACCOUNT NUMBER AS INDICATED IN THE DIRECT DEBIT AUTHORIZATION FORM SUBMITTED TO BCA)

Name (*individual applicant) ____________________________ Signature (*individual applicant) ____________________________

**COMPANY PARTICIPANTS**

Company Name: ____________________________ Company UEN No.: ____________________________
Mailing Address: ____________________________
Contact Person: ____________________________ Email: ____________________________
Designation: ____________________________ Hp No.: ____________________________
Telephone No.: ____________________________ Fax no.: ____________________________

**COMPANY PAYMENT**

BY CHEQUE - ENCLOSED IS A CHEQUE NO. ____________________________ (CHEQUE SHOULD BE CROSSED, MARKED “ACCOUNT PAYEE ONLY” AND PAYABLE TO ‘BCA’) FOR S$ ____________________________

BY GIRO - GIRO ACC. NO. ____________________________ (SHOULD BE THE SAME BANK ACCOUNT NUMBER AS INDICATED IN THE DIRECT DEBIT AUTHORIZATION FORM SUBMITTED TO BCA)

Name/Signature (*Company / Individual applicant) ____________________________

Company Stamp ____________________________

**Enquiries**

For enquiries, please call 6248-9999
or email us at bca_academy@bca.gov.sg

For details of other seminars and courses, please visit our website @ www.bcaa.edu.sg

**Registration**

Seats are limited, registration is on a first-come, first served basis. Please fax the application form to: 6258-0558. Cheques with original registration form and supporting documents should be mailed to BCA Academy, 200 Braddell Road, Singapore 579700

All information in this brochure is correct at the time of print.