ACES-BCAA-ADSK Move from CAD to BIM
Hands-on Workshop

Date: 16 January 2013 (Wednesday)
Session 1: Structural 9.00 a.m. - 12.30 noon
Session 2: MEP 1.30 p.m. - 5.00 p.m.
Venue: BCA Academy, IT Lab 3,
Level 2, Block B
200 Braddell Road,
Singapore 579700

CPD points: 3 PDUs qualified by PEB for each
Session 1 and Session 2

Fee: ACES Member $25 per pax
Non-member $50 per pax

Closing date: 11 January 2013

Brought to you by:

Autodesk
Session 1: Structural

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<tr>
<td>9.00 – 9.30 am</td>
<td>Registration</td>
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<tr>
<td>9.30 – 10.00 am</td>
<td>Structural BIM e-Submission Guidelines by BCA, Sonny Andalis</td>
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<td>10.00 – 12.30 noon</td>
<td>BIM for Structural Engineering workflow by Autodesk, Noah Arles</td>
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**Topic Synopsis:**

**Structural BIM e-Submission Guidelines**

BCA CCIT will discuss the phased implementation of the Structural BIM from modelling guidelines; submission drawings; interoperability with structural analysis and structural detailing. New BIM requirements for ST submissions in Corenet: acceptable file formats, level setup, site plan, hybrid approach to detailing, model progression matrix and expected deliverables.

**Speaker:** Sonny Andalis, BCA

Sonny Andalis is a Technical Consultant & BIM Specialist for Building & Construction Authority Centre for Construction IT (CCIT). He is a registered civil engineer in the Philippines with a professional focus in Structural Engineering. He has 9 years experience in Telecom Infrastructure, Facility Renovation, Rail & Airport Engineering under Alcatel, CPG Consultants & Mitsubishi Heavy Industries prior to joining BCA. In BCA, he is responsible for the Structural BIM e-Submission implementation & handholding of BIM adopters. He teach BIM at NUS, NTU, SP and BCA Academy.

**Topic Synopsis:**

**BIM for Structural Engineering workflow** - to introduce attendees on how BIM models are used in a Structural Engineering workflow:

- How to start using BIM models in a Structural Workflow - Collaborating with Architectural and M&E (MEP) BIM models Using 2D Drawings
- Using your Structural BIM model for Analysis (Basic Workflow) - Setting up your BIM model for Structural Analysis Transferring your BIM model to and from Analysis software
- Using your Structural BIM model for Detailing (Basic Workflow) - Using your Structural BIM model for Structural Detailing

**Speaker:** Noah Arles, Autodesk

Noah Arles is the Senior Applications Consultant for AEC C&S for ASEAN, Autodesk Asia Pte. Ltd. He is mainly involved in configuring solutions and implementing Autodesk Civil Engineering solutions for commercial and government customers. He travels around the ASEAN region creating awareness and educating the ASEAN market in the latest Autodesk technology for Civil And Structural Engineers and in various market segments within the Architecture, Engineering, and Construction industry. Prior to this, Noah has worked for various engineering and consulting firms and has been involved in projects which include Structural Engineering, Site Development, Roads, Utilities. Noah has been using various 3D CAD technologies since the start of his career as a Licensed Civil Engineer.
### Session 2: MEP

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<td>1.30 – 2.00 pm</td>
<td>Registration</td>
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<tr>
<td>2.00 – 2.30 pm</td>
<td>MEP BIM e-Submission Guidelines by BCA, Liu Ziwen</td>
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<tr>
<td>2.30 - 5.00 pm</td>
<td>Transition to BIM: Moving from 2D to 3D design and Documentation for MEP by Autodesk, Vijay Raina</td>
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<td>5.00 pm</td>
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#### Synopsis

**MEP BIM e-Submission Guidelines**

BCA CCIT will discuss the phased implementation of BIM MEP; BIM roadmap; Submission drawings; BIM requirements for MEP submission to different agencies in Corenet; BIM MEP e-submission template.

**Speaker: Liu Ziwen, BCA**

Liu Ziwen is a BIM Consultant for CCIT (Centre for construction IT), Building and Construction Authority. Prior to joining BCA, he worked for a local M&E consultant firm, involved in designing building services including ACMV, Plumbing & Sanitary Services and Fire protection services for several projects. In BCA, he is responsible for BIM MEP e-submission implementation and handholding of BIM adopters.

**Transition to BIM: Moving from 2D to 3D design and Documentation for MEP**

- The Hands on workshop will provide users the firsthand experience for 2D to 3D transition using Autodesk Revit MEP for mechanical, electrical and plumbing (MEP) engineers and drafters.
- Learn How to setup MEP Project, Derive the building parameters such as Area/Volume from Architectural BIM Model. Place various equipment such as Diffusers, VAV, Lighting Fixtures, Plumbing Fixtures.
- **Create MEP Systems** such as Ducting, Piping and Electrical Circuits. Learn How to Do Duct/Pipe Routing and Sizing within Autodesk Revit MEP. Learn how to take design to documentation phase by creating floor plans, Sheets, Sections Annotations etc. Using Power of BIM, learn how to do Clash Detection and Generate Bill of Quantities from MEP Model.

**Speaker: Vijay Raina, Autodesk**

Vijay Raina is an Application Engineer AEC-ASEAN at Autodesk Inc. He has about 11 years of AEC industry experience working in India and Middle East. He is a Mechanical Engineer with Extensive hands-on experience and was working as BIM Manager-MEP for Tilke GmbH in Bahrain. He has successfully completed many multi-million Dollar projects using Autodesk Revit as BIM Platform. Some of the Projects such as the Dubai Metro, the 850 Beds Multi Specialty Hospital(SKMC) in Abu Dhabi (UAE), the F1 Track for Buddh International Circuit-India and Masdar City.
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200 Braddell Road, Singapore 579700
Closing date for Registration: 11 January 2013

Please complete this registration form and send via email: secretariat@aces.org.sg
For further information, please contact Ms Lilian or Ms Jennifer Tel: 63242682

Please (v) to select one:

- **Session 1 (Structural)**
  9.00 a.m. to 12.30 noon
  - Structural BIM e-Submission Guidelines by BCA, Sonny Andalis
  - BIM for Structural Engineering workflow by Autodesk, Noah Arles

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- ACES Member / Membership No. ________________
- Non-Member: ________________

Company:

Address:

Contact Person*: Tel. No.* Email*

Please complete the required information marked * for confirmation purpose

Cheque to be made payable to “Association of Consulting Engineers Singapore”
Cheque No. / Amount: ________________

Mail to Address: Thomson Road Post Office, PO Box 034, Singapore 915702