



ASSOCIATION OF
CONSULTING ENGINEERS
SINGAPORE

Autodesk-ACES Workshop: Exploring Structural BIM to Analysis Workflows & Model Automation Procedures



Date: 31 May 2023 (Wednesday)
Time: 6.00 pm to 9.30 pm
Mode of Delivery: Classroom-based
Venue: Autodesk Office
 3 Fusionopolis Way #10-21 Symbiosis
 Singapore 138633
Fee: ACES Member \$30 nett per person
 Non-Member \$80 nett per person
CPD: 3 PDU

Registration link and QR Code
<https://forms.gle/DGTtTjCrmz4sAP6Q9>



Note: All participants to bring own laptop; Dinner bento will be provided.

LEARNING OBJECTIVES

- ❖ Increasing productivity and enabling collaboration
- ❖ Design & BIM Data Management.
- ❖ BIM & Analysis Interoperability
- ❖ Preparing Structural Building information Models for IFC-SG Submission requirements

TOPIC & AGENDA

Exploring Structural BIM to Analysis workflows & Model Automation procedures.

- ❖ Hands-on: Revit-Dynamo-Robot
- ❖ Hands-on: Corenet X - IFC-SG Parameters for Revit & Checking Structural Models
- ❖ Showcase: Generative design
- ❖ Showcase: CSIxRevit Interoperability

Prerequisites to be installed:

- * Revit 2023
- * DYNAMO v.2.16.1
- * Robot Structural analysis 2023
- * Datasets will be provided 1 week before the session

Time		Agenda
6.00 pm to 6.20 pm	20 mins	Introduction to Dynamo for Revit (Lecture)
6.20 pm to 7.00 pm	40 mins	Dynamo fundamentals and setup (Hands-on)
7.00 pm to 7.10 pm	10 mins	Short Break
7.10 pm to 8.10 pm	60 mins	Integrating Structural Design and Analysis: The Basics of a Revit-Robot Structural Analysis Workflow (Hands-on)
8.10 pm to 8.30 pm	20 mins	Introduction to Generative design in Dynamo-Revit
8.30 pm to 8.50 pm	20 mins	Introduction Rhino Inside Revit - Structural framing from Grasshopper to Revit
8.50 pm to 9.20 pm	30 mins	Introduction to CSIxRevit enables bi-directional data transfer to CSI Software: SAP2000®, ETABS® and SAFE® . Bi-Directional data Transfer plugin for REVIT®
9.20 pm to 9.30 pm	10 mins	Q/A - Session Wrap Up
9.30 pm		End of Workshop

THE SPEAKERS



Ir. Sagar Thorat
Technical Solutions Executive, AEC

An Architectural Engineer and BIM Technologist with over 13 years of experience in the AEC Industry ranging from material fabrication technologies, and bespoke building envelopes to Large scale mixed-use Building projects in APAC, EU, and the USA. He has been involved as part of the Design and BIM teams for key Projects in Singapore like Jewel Changi Airport, SJ Campus, Northpoint City, Paya Lebar Quartier. He holds a Master's degree in architectural engineering and Digital design from TU Delft, the Netherlands



John Rivas

John is a Solution Engineer for Architecture Engineering and Construction division in Autodesk. Prior to joining Autodesk back in 2014, John has held various roles in engineering, IT & technical sales. John focuses now in educating the value of BIM to Autodesk customers in APAC region. He is a computational BIM specialist and a python enthusiast.



June Choo
Technical Director at Otte International Pte Ltd

Professional Engineer (Civil), Registered in Singapore. Specialties: Civil & Structural. Numerical Modeling with CSI:SAP2000, ETABS & SAFE; GEO-SLOPE: GeoStudio 2007; Geocentrix: ReWaRD & Repute. Performance Based Nonlinear Dynamic Analysis of Building Structures.

REGISTRATION FORM

For enquiry, please call ACES Secretariat at Tel: 6659 5023

Kindly sign and submit your completed registration form to secretariat@aces.org.sg

Code	Title	Fee per pax	Schedule	Venue
S64	Autodesk-ACES Workshop: Exploring Structural BIM to Analysis Workflows & Model Automation Procedures	ACES Member: \$30 Non-Member: \$80	31 May 2023 (Wednesday) 6.00 pm to 9.30 pm	Autodesk Office

S/N	Full Name	PE No.	Contact	Email
1.				
2.				
3.				

Company:

Address:

Contact Person:

Mobile No.:

Email:

PAYMENT METHOD

FOR CHEQUE:

Local Cheque should be crossed and made payable to "Association of Consulting Engineers Singapore".

Mail to ACES address: Association of Consulting Engineers Singapore 18 Sin Ming Lane #06-01 Midview City, Singapore 573960.

Please indicate your name and course code 'S64' on the back of the cheque.

FOR FUND TRANSFER:

Account Name: "Association of Consulting Engineers Singapore"

Account Number: 918-340-5361

Bank: UOB Current Account

Kindly indicate the course code 'S64' and your name when doing the fund transfer.

Please email a copy of your payment transaction details to secretariat@aces.org.sg

FOR PAYNOW

PayNow ID: UEN S71SS0040F

Please email a copy of your transaction details to secretariat@aces.org.sg for payment tracking.

Terms and Conditions

By submitting and signing this application form, the company applicant agree to the following:

- Fees Payment for this activity should not be combined with payment for other ACES events/courses.
- Fees paid are non-refundable under all circumstances. Replacement of participant will be allowed only if written notification is made at least 3 working days before the event.
- Where a Non-Member replaces a Member (must be from the same Org.) the fee difference will have to be made good to ACES prior to the event.
- Registration will be on a First-Come-First-Served basis and will be accepted upon receipt of registration form and payment to ACES.
- You allowed the use of photos and videos of you which may be taken during the event for marketing and publicity purposes. By registering for this event, you consent to allow ACES to collect, use and disclose personal data for event planning and registration purposes.

To be completed by Company Applicant

COMPANY APPLICANT

Name: _____

Signature: _____

Date: _____

Company stamp (for company application)