

The BIM Competition

Date: 25 – 26 April 2011

Time: 9am-10pm (25 April) and 8am-7pm (26 April), total of 24 hours on-site

Venue: BCA Academy Function Hall and Cafeteria (Block F)

Categories:

1. *Student (Architecture)*

- Teams to design and model from scratch
- Project type: Mixed development of hotel and commercial-shopping

2. *Professionals (Architecture)*

- Teams to design and model from scratch
- Project type: Mixed development of hotel and commercial-shopping

3. *Civil and structural engineering*

- Teams to work on civil and structure(C&S) engineering design and modeling based on an architecture model, consists of a mixed development building type

4. *Mechanical and electrical engineering*

- Teams to work on mechanical, electrical and plumbing engineering services design and modeling based on an architecture model, consists of a mixed development building type

5. *Construction, Quality surveying (QS) and facilities management*

- Model with incomplete information and intended errors/clashes
- Teams to work on project scheduling, clash detection, quantity take-off, among others

Details of teams

Organisation	Teams
Aedas Pte Ltd	1
Beca Carter Hollings & Ferner (S.E.Asia) Pte Ltd	3
BYME Engineering Hub	1
CPG Consultants Pte Ltd	4
DP Architects Pte Ltd	5
Housing & Development Board (HDB)	2
Jurong Consultants Pte Ltd	2
RSP Architects Planners & Engineers (Pte) Ltd	1
Squire Mech Pte Ltd	1
ST Architects & Engineers	4
Surbana International Consultants Pte	2

Ltd	
Woh Hup (Pte) Ltd	2
Institute of Technical Education College Central, Tampines Campus	2
National University of Singapore	2
Singapore Polytechnic	9
Temasek Polytechnic	4
Others: <i>Freelancer / professionals not affiliated with any organisation</i>	2
Total	47

Timeline

Date	Category			
	Architecture	C&S engineering	M&E engineering	Construction, QS and FM winner
25 April 2011, 9am	Team introduction and pre-planning, coordination scenario (video, or power point slide show)			
25 April 2011, 2pm	Design (sketches, or massing blocks)	Analyse design report	Perform schematic design of ME services	Review clashes report and improve design
25 April 2011, 9pm	Update models and work			
26 April 2011, 9am	Update models and work			
26 April 2011, 9pm	Submit design / models (images, reports, documentations, videos, presentation slides, posters, etc)			

Acceptable formats for submission

BIM model in both native format & IFC format
 Rendering images (jpeg, tif, or bitmap)
 Walkthrough videos (avi, wmv, or mpeg)
 Drawing documents (PDF or DWF)
 Simulation/analysis reports (PDF or DWF)
 Powerpoint slides (ppt or pptx)
 Posters (psd or jpeg)

Judging criteria

Teams will be judged on their:

- ability to demonstrate the capability of BIM and its benefits as many as possible within a short time (e.g., conceptual design, modelling, documentation, simulation/analysis, walkthrough, quantity take-off and crash detection)
- creative use of BIM for better sustainable or buildable design
- presentation style that shows team work effort
- ability to work across various software platforms (e.g., modelling to simulation/rendering)

Prizes:

Student (Architecture) winner - S\$3,000 + trophy

Professional (Architecture) winner - S\$3,000 + trophy

C&S engineering winner - S\$3,000 + trophy

M&E engineering winner - S\$3,000 + trophy

Construction, QS and FM winner - S\$3,000 + trophy

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Special mentions for:

- Most innovative team
- Team with best use of BIM for sustainable design
- Team with best use of BIM for buildable design
- Team with best team collaboration and coordination
- Team with best publication and presentation