



International Built Environment Week 2019

International Building Design Competition - Students' Category

A synergetic approach encompassing Green Building Design, Design for Manufacturing and Assembly and Integrated Digital Delivery

THEME

The International Building Design Competition 2019 is held in conjunction with IBEW 2019. The theme for this year's competition, "Touching Our Earth Lightly" is by designing a group of sustainable buildings in a natural environment.

This competition invites students to submit design solutions for a sustainable mixed-use building in a natural environment of Coney Island by involving all disciplines into a coherent whole. It is this coherent whole that we hope to see from the competitors, as they use contemporary design techniques for collaborating and developing an integrated design approach to come up with a co-working office building in the natural environment of Coney Island.

DESIGN PROBLEM

The Millennials, as they have been coined by William Strauss and Neil Howe in the book Millennial Rising: The Next Great Generation, are less tolerant towards rigid hierarchical structures and have proven to perform better when flexibility and a sense of purpose are given to them.

The design of conventional offices where efficiency, productivity and ranks had worked for the previous generation, are now slowly making way for new office environments that can encourage creativity and collaborations across a flat organization structure. Students are to design a co-working office building or buildings that will help nurture a healthy community of millennial freelancers and small startup companies. Students are to question established rules of a conventional office and explore future workspace designs that will challenge the culture of work.

TEAM COMPOSITION

A minimum of 3 members per team, maximum of up to 8 members. Team members need not come from the same institution. Members who are full-time students at the point of registration are eligible to participate in the competition.

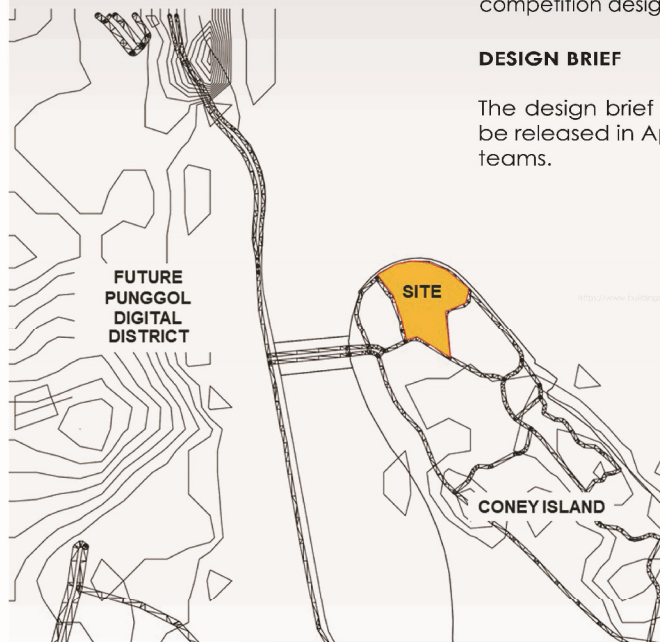
Competition is open to other disciplines, with a minimum of 3 disciplines from AEC (Architecture Engineering & Construction) per team.

TARGET PARTICIPANTS

All full-time local and international students from tertiary institution in their respective countries. Proof of student status is required (student ID or letter from institution).

THE SITE

The location for the project will be at the tip of Coney Island near the west entrance. Please see attached location plan.



Participating projects must have a maximum of 5 (five) storeys with a minimum gross floor area (GFA) of 7,000 m² and a maximum site area of 10,000 m². More information on the site can be found in the competition design brief.

DESIGN BRIEF

The design brief and competition documents will be released in April 2019 to successfully registered teams.

REGISTER NOW!!!



<https://www.buildingcareers.gov.sg/transdisciplinarycompetition>

JUDGING / SCORING CRITERIA

Technology & Innovation (20%)

To demonstrate the use of technologies and innovative approaches to improve design process and outcome as follows:

To use programming approach to generate and evaluate different design options that leads to design optimisation (e.g. GFA) (10%)

To use Augmented Reality (AR), Virtual Reality (VR) to visualise the design, assembly processes and work sequences (10%)

Lean & Sustainability (35%)

To demonstrate lean and sustainability considerations in the design as follows:

To improve DfMA by reducing different types of PPVC or precast modules in the design (10%)

To identify the critical path in the construction programme for timely construction (10%)

To simulate and analyse natural light, ventilation and solar performance digitally for minimised energy consumption, maximised passive design performance and optimised renewable energy outcome for high performance building to positive energy building (15%)

Collaboration & Conflict Resolution (20%)

To demonstrate the ability to share and coordinate models across different disciplines and to manage design changes effectively as follows:

To eliminate major clashes across 3 disciplinary BIM models (10%)

To use one of commercially available collaborative platforms to share models and track design issues and changes online with timely resolution (10%)

Attractive prizes!

FIRST PRIZE
SGD\$10,000

SECOND PRIZE
SGD\$7,000

THIRD PRIZE
SGD\$5,000

MERIT PRIZES (5 NOS)
SGD\$1,000

EACH GROUP WILL RECEIVE A PLAQUE AND ONE CERTIFICATE PER MEMBER

ALL PARTICIPANTS WILL RECEIVE AN E-CERTIFICATE OF PARTICIPATION

Organised by:



Sponsored by:



Project Delivery (25%)

To demonstrate teamwork and quality of work as follows:

Overall quality of the design (10%)

Overall quality of the submission and final presentation (10%)

To demonstrate good teamwork (5%) with students taking up different roles & responsibilities.

