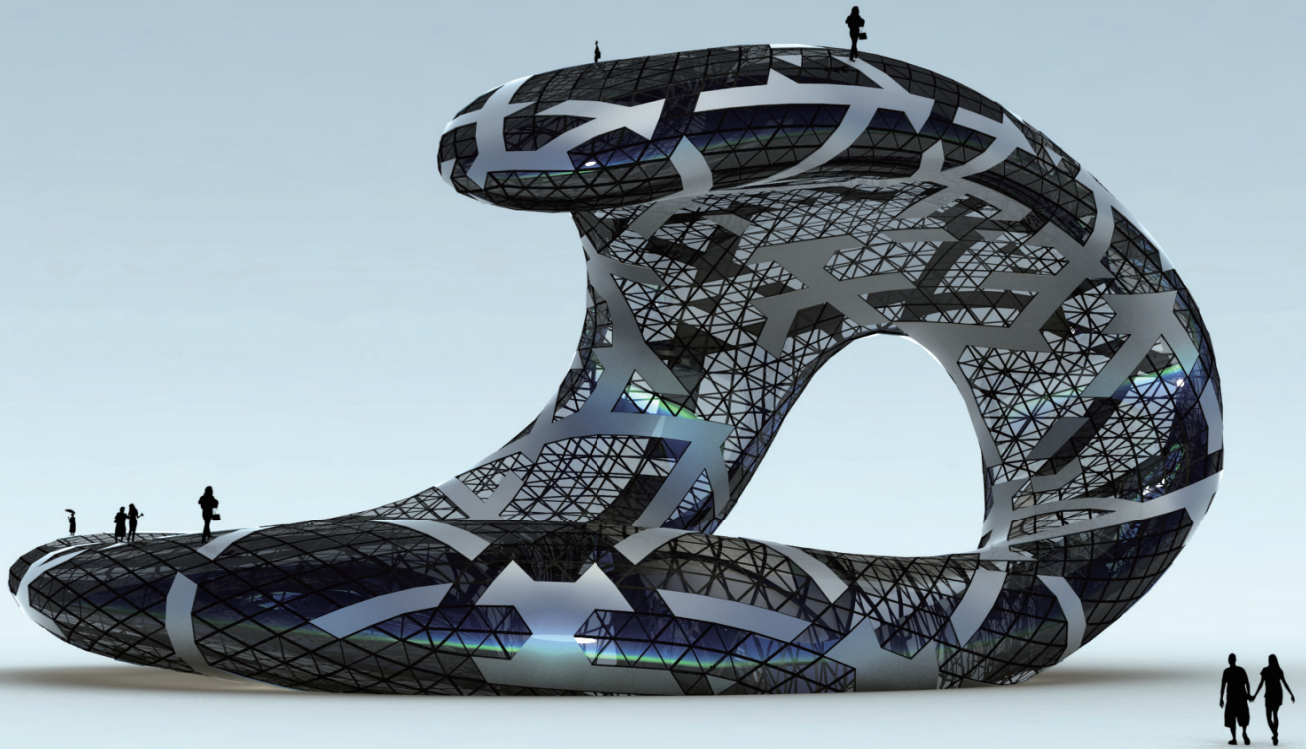


Virtual Design World Cup

The 1st Student BIM & VR Design Contest
on Cloud Services



2011 Theme

“SHIBUYA BRIDGE”

- pedestrian bridge and deck + architectural city design -

Virtual Design World Cup

This is an international design competition utilizing Building Information Models (BIM) and Virtual Reality (VR) technology to aid in the design of an innovative pedestrian bridge. The concept for this competition is based on the design of Shibuya bridge – a new way of imagining Tokyo's most famous intersection. The criteria include architectural design and visualization of a pedestrian bridge/deck in, around, or above the context of this landmark. Participants must complete the design with a wide range of technologies in architecture and civil engineering, including the mandatory software packages UC-win/Road byForum8 Co. Ltd., and Allplan by Nemetschek. Judging is performed on the basis of various design aspects including architectural/landscape design, structural design, pedestrian/traffic control, wind analysis, internal landscape evaluation with walk-through, and eco-friendly design.

Applicant Eligibility

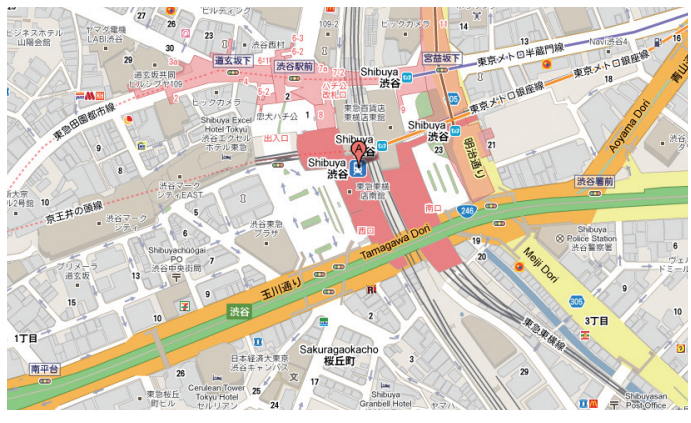
All participants of this contest must be students (full or part-time). Solo and team entries will be accepted. Works created prior to 2011 will also be accepted so long as they address the theme of the competition and meet final deliverable requirements.

Theme

The objective of this contest is to design a spatial structure for pedestrians at Tokyo's most famous intersection in Shibuya. An example proposal could be: "The symbol of Shibuya in 2050: An Interactive Space for the Future of Tokyo's Famous Intersection". Design proposals should include not only the bridge and pedestrian deck itself, but also the surrounding context and how the proposed intervention engages the urban environment.



Shibuya is one of the most famous spots in central Tokyo, especially popular for Japanese pop music, fashion, and young culture. [http://en.wikipedia.org/wiki/Shibuya, Tokyo]The development site for this contest is around the JR Shibuya Station, which is one of the densest spots in Japan in terms of pedestrian traffic. 3D VR data around the station including point-cloud data is available and can be used for the contest.



Important Date

- Registration: May 2 – September 30, 2011
- Submission: October 1 – October 31, 2011
- Announcement of Results*: November 4, 2011
- Optional Workshop**: BIM Tutorial on May 18, 2011, VR Tutorial on June 30, 2011, BIM & VR solution on July 27, 2011

*) Award Ceremony is held on November 16 at the Forum8 Design Festival in Tokyo, JAPAN

***) Optional Workshops will be held through a Web browser using cloud computing services. The contents in the workshops are also available on the competition website.

Steps For Entry and Submission

- Step1: Make an online registration at www.virtualdesignworldcup.org
- Step2: Download the site model and install UC-win/Road* and Allplan*
- Step3: Request additional software licenses and install them
- Step4: Submit a VR data and a PDF poster file by 10.3

*) VR software UC-win/Road and BIM software Allplan must be used for data creation. These packages can be downloaded free of charge for a special limited duration. The software license will expire at the end of the competition. In addition to them, many simulation tools and services are available to use for free such as VR-Studio® - large scale multi VR, Engineers Studio® - 3D plate dynamic nonlinear analysis, UC-win/FRAME (3D) - 3D frame structural analysis, UC-1Series - Bridge design, abutment design CAD, DesignBuilder - building energy calculation, AdvanceSteel & AdvanceConcrete - 3D steel/concrete CAD, OSCADY- Planning of traffic signal/intersection, TRANSYT- traffic stream analysis, Xpswmm - flood analysis, EXODUS -evacuation analysis support service, and Wind and Thermal Fluid Analysis.

Submission

You are required to submit the materials listed below to our FTP site by October 31st, 2011. If online submission is not possible, a DVD including all required materials must be delivered to our office by October 31st.

- 3D Virtual Reality (VR) Data: An animated VR data scripted in UC-win/Road is required for the final submission. Multimedia materials including 2D/3D text, sound, and video should be integrated with the VR environment to help explain your concept. All project materials should be in English.
- A1 size poster (PDF): The poster should articulate the concept of your design proposal. Be sure to explain your integration of BIM/VR software throughout all stages of your project, as well as any other technologies used.

*Each submission will be judged anonymously. Applicant names or personal information should not appear anywhere on submitted materials.

Award

The following awards will be given to innovative projects. Judging is based on the originality, software application, the extent of BIM and VR usage in the design stage, time taken, quality, logic, and utilized techniques.

- 1st Place Prize - World Cup Grand Prix + \$12,000*
- 2nd Place Prize – Excellent Award + High End Laptop Computer
- Other Awards – Entertainment Award, Encouragement Award, and Honorable Judge's Award + Digital Camera, Smart Phone, etc.

*) The Grand Prix winner will receive 1,000,000JPY in their currency.

Committee

Chair-Yasushi Ikeda (Keio University), Kostas Terzidis (Harvard University GSD), Yoshihiro Kobayashi (Arizona State University), Ed Galea (University of Greenwich, FSEG), Tomohiro Fukuda (Osaka University), Hiromichi Yoshikawa (Tokyo City University), Ryota Ieiri (Ieiri Lab), Fumio Seki (Nihon University), and companies (Nemetschek Allplan, NPO Chiikizukuri Kobo, NPO Civil Machizukuri Station, and FORUM8 Co.,Ltd.)

Contact

For inquiries or more information, please email: info@virtualdesignworldcup.org

www.virtualdesignworldcup.org