



“设”想家
抗震建筑设计挑战赛

www.educationuk.cn/dynamicdesigns

合作伙伴 University of BRISTOL 同济大学 ARUP

Dynamic Designs Stage 2 brief – The Final

| | |
|--|---|
| 1. Introduction..... | 1 |
| 2. Date and Venue for final Event..... | 2 |
| 3. The Presentation on your Hospital Proposal..... | 3 |
| 4. Model Construction and Shaking-Table Tests..... | 3 |

1. Introduction

Congratulations! Your team has qualified for the Final. In this Stage, your team must prepare for a final event when you will be competing against 14 other teams. At the final, your team must present your proposal for the new hospital to a panel of experts and construct the model of your building, which will be tested the same day on a shaking-table.

In Stage One, you received the “Model Specification”, which presents the specification for the structural design of your model and the details of the shaking-table tests which will be run at the Final. Following this, you can develop your design further (if you wish) and construct and test trial versions of your designs.

This Stage Two Brief presents the details of the Final and the specification for your presentation.

2. Date and Venue for final Event

Date: 27 November 2010

Venue: Room A101, Civil Engineering Building, Tongji University, 1239 Siping Road, Shanghai, P.R.China

| | |
|--------------------------------------|--|
| 26th November 2010 | |
| Afternoon | Smart talk including Short Earthquake Engineering talk & demonstration by University of Bristol |
| Evening | Teams register. Play money handed to each team with base board. Teams purchase initial materials from shop. Left in the construction room over night. |



| 27 th November 2010 | | | |
|--------------------------------|--|---|---|
| Date Time | For team members building models | | For team members presenting |
| 8:30 | Welcome by British Council, University of Bristol and Tongji University | | |
| 9:00 | Model construction | 9:00 | Teams 1-4 set up presentations |
| | | 9:30 | Presentations from 4 teams. <ul style="list-style-type: none"> • 8 minutes talk for each team • 3 minutes questions for each team |
| | | 10:30 | Refreshment break Teams 5-8 set up presentations |
| | | 11:00 | Presentations from 4 teams |
| 12:00 | Lunch break with sandwiches/lunchboxes | | |
| 12:30 | Model construction | 12:30 | Teams 9-12 set up presentations |
| | | 13:00 | Presentations from 4 teams |
| | | 14:00 | Teams 13-15 set up presentations |
| 14:30 | Judges check models | 14:30 | Presentations from 3 teams |
| 14:30 | Models to be fixed to shaking-table | | |
| 15:30 | Judges meeting on presentations | Teams explain and view each others posters <ul style="list-style-type: none"> • 3 minutes talk for each team | |
| 16:30 | Test models on shaking-table | | |
| 17:15 | Judges meet to decide overall winner | | |
| 17:45 | Prize Giving (<i>Prizes for Best Presentation, Most-efficient model, Overall winner</i>) | | |
| 18:30 | Event finishes | | |

Notes:

- Teams include 6 students, 2 minimum are expected to do the presentation and attend all the other presentations (they do not have to be the same 2 people throughout the day).
- 5.5 hours total build time
- From 14:30-16:30 one member from each team will need to take their model to be checked by the judges, then 1-2 members from each team will be needed to help fix their model to the shaking-table and glue the steel blocks in place.
- The Stage 1 posters will be displayed and from 15:30-16:30, one member of each team will stand by their posters to explain their design of their model and why it will win to members of the other teams. Students will then have a vote on which model they think will win the shaking-table tests.



3. The Presentation on your Hospital Proposal

The purpose of the presentation is for your team to convince the judges that your proposal for the hospital is the one that best satisfies Mr Dunwell's requirements. You will need to demonstrate that the structure has a good earthquake resistant design, and justify the balance between the total cost of your proposed building and its value and benefits to the region and Mr Dunwell.

3.1 Rules for the Presentation

- **Delivery:** Teams will deliver their presentations throughout the day of the Final. At least two members of your team **MUST** attend all other team presentations, and at least two members of your team **MUST** deliver your team's presentation. During the day, you can change the members of your team that attend the presentations. They do not have to be the same people all day.
- **Language:** The presentation must be delivered wholly in English.
- **Format:** The presentation can be delivered in any way that you wish. For example, you can use a PowerPoint presentation, flip charts, models, or anything else. The organisers will provide a computer with projector, a flip chart stand and a table for any models you bring. You must advise the British Council China (Tel: 020 8510 3024/ Email: jack.lu@britishcouncil.org.cn) of any other requirements for your presentation by 19 November 2010.
- **Timing:** Your presentation **MUST NOT** last longer than 8 minutes, after which the judges will ask your team members questions on your proposal for up to 3 minutes.

Content: Your presentation must include:

- Images for the final structural design of your building;
- Technical justification of your design;
- The cost of the structure;
- Architectural images of the exterior only of your proposed hospital;
- The main social and economic benefits of the hospital to the town and region;
- The benefits and value of the building design (architectural and structural) to Mr Dunwell.
- You can also include any other information that you feel is relevant.

3.2 Judging Criteria for Best Presentation

- The presentation will be judged on:
- The structural design (20%)
- The architectural design (20%)
- The benefits of the proposed hospital to the region and Mr Dunwell (20%)
- Value for money for the proposed building (20%)
- Standard and style of the presentation (10%)
- Good use of English (10%)

4. Model Construction and Shaking-Table Tests

The "Model Specification" provides the rules for the model that you will construct at the Final, details of the materials and equipment for the Final, and details of the loading and shaking-table tests.