

## Structural Models & Prototypes

### UNIT C + D Structural System development workshop week – 26.02 – 30.02.07

#### Monday 26.02:

**Kick off:** 10:00am

**Brief:** Everyone must produce 4 models which initiate engagement with your individual site via the development of models that explore strategic structural combinations.

Example: load bearing, cantilevers, shells, piloti, truss systems, etc...

**Scale:** 1:100

#### Tuesday 27.02:

**Kick off:** 10:30 am, Progress check with unit staff.

**Brief:** Choose 1 or 2 models to progress forward. The models should move towards addressing issues such as:

- light weight components
- irregular geometry
- material qualities
- relating to the ground condition

**Scale:** 1:100

#### Wednesday 28.02:

**Kick off:** 10:00am

**Brief:** Speculative models of detail connections.

You should be addressing how your material combinations actually connect up and join together into a stable formation. **Buildings are not held together with hot glue!**

**Scale:** 1:10 - 1:50

#### Thursday 28.02:

**Kick off:** 10:00am

**Brief:** make a sectional structural model. This should convey the performance of the structural system, how it relates to the immediate surrounding conditions of the site, and the space that it forms / generates.

**Scale:** 1:50

#### Friday 29.02:

**Kick off:** 10:30am

**Action:** Combined Unit C+D Crit in the main atrium space.

#### Notes that you must address:

- Every single model should be beautiful in its own right! So no bad tape jobs! Be precise!
- We expect that you document the model making process & the resulting models.
- Digital models will not be an accepted result for the weeks exercise.
- But the use of the computer in the manufacturing of models / prototypes is encouraged.
- The use of materials such as cardboard or other flimsy materials (fruity coloured plastics) that most of you use with unashamed and uncontrolled abandon. Will not cut it beyond day one. So start thinking of other materials to work with. Maybe even the materials you are claiming to actually use.
- Use the workshops!
- You will all be expected to be self motivated this week! We will not be there everyday to make sure you attend and produce work asked of you. You must do this yourself. If you can not manage this you have failed yourselves, and expect heat on Friday!!

Here is a list of reference books that maybe useful during the week and the remainder of the year. You can find the list online here; <http://www.diploma-unit-9.net/books/> there they will take you to links to find out more. But you can also get these books at the Triangle Book store at the AA and the RIBA bookstore. They will also have them at there libraries.

- [Techniques and Technologies in Morphogenetic Design](#)
- [Structure Systems/Tragsysteme](#)
- [Materials, Structures and Standards: All Details Architects Need to Know But Can Never Find](#)
- [Process, Measurements, Materials: All the Details Industrial Designers Need to Know But Can Never Find Out](#)
- [Lightness: The Inevitable Renaissance of Minimum Energy Structures](#)
- [MorphoEcologies](#)