

SCEAS Building University of Manchester



Introduction

This is the first of what will become a regular update on the works to be carried out on the new SCEAS Building (School of Chemical Engineering and Analytical science).

You may have noticed the timber hoarding being erected around the site; this now has graphics on with computer generated images of the new building. Most of our construction work will be contained within this timber hoarding. We will produce this bulletin on a 6 weekly cycle as an information guide regarding the ongoing works and to inform our neighbours how we will minimise any possible disruption to our neighbours.

Work commenced on 5 July 2010 and our construction programme is for 60 weeks. The anticipated completion date is August 2011; hence we are around campus for a while!

Overview of the Building.

In the construction of the building we are using a combination of traditional and modern methods, which also includes sustainable methods of heating the building.

Over the last 7 weeks we have been installing a ground source heat pump, this involved drilling 23 hole 150m into the ground and then dropping a series of pipes down the hole that will looped together.

In principle this system works like a refrigerator in reverse, the fluid in the pipes in draws heat from the ground which is then used to heat the building.

The main structure of the building is a steel frame sat on concrete foundations that have been excavated to a depth of 3m to the sand stone rock. The floors are constructed of concrete which will also have heating pipes cast into them to heat the building.

The external fabric of the building consists of a number of modern cladding systems which include.

- Glass curtain wall.
- Structural glass wall.
- Rain screen cladding (This is designed to let water run at the back of the cladding and drain out at the bottom)
- Interlocking cassette system cladding

Programme

Over the coming 6 week period our operations on site will be as follows:-

Work outside of the hoarding

We will be installing the graphics to the timber hoardings and forming the temporary site entrance from Booth St East, and the exit onto Upper brook St.

Work within site boundary.

The foundations for the steel frame are nearing completion ready for the next phase of work which is the erection of the steel frame. This will involve heavy plant on site, including a mobile crane and access equipment.

The frame will be started from the far side of the site (nearest the Aquatics car park) and will take 11 weeks to complete, this is including the floors. The tools used to tighten up the bolts on the steel frame can be noisy, we will restrict this work until after 9.00am to minimise disruption.

Health Safety & Environmental

Our first priority is to keep our work force and the general public safe. Access to the site is restricted and controlled via the main entrance. Vehicles entering and exiting site will be done under controlled condition, you may be asked to wait one moment at the entrance / exit whilst vehicle is manoeuvring. I would ask for your patience in these circumstances.

Over the next few weeks we will be installing viewing windows around the site in the hoarding so you can see the activities that are happening on site.

We are also committed to minimising the effect we have on the environment some of the actions we are going to or have already put into place are.

- Separation of waste materials for recycling
- All plant on site is less than 3 years old (Using more efficient engines)
- Reduction of waste at design stage. IE structures are set out to board lengths reducing waste
- Energy use on site is monitored against set targets
- All fill material brought to site is recycled

Regards,

Dave Jones

Project Manager