

Loughborough University 'DISCOVERING OFFSITE' TOUR

Date: 29 October 2008

Time: 10.00am – 2.00pm

Venue: Loughborough University

Tel: 01509 223097 / 01509 228529

Host: Alistair Gibb

Explanation of organisation and tour

Loughborough University hosts one of the UK's leading built environment research centres. The Loughborough team has been at the forefront of innovation research, with a particular focus on offsite, for the last decade. This 'Discovering Offsite' tour will provide an opportunity to find out more about the research at Loughborough. Two major projects will provide a focus for the event: 'Adaptable Futures' and 'Mega-Scale Freeform Construction'. Both projects are funded by the UK Government through the Innovative Manufacturing and Construction Research Centre.

The 21st century economic & environmental drivers demand the re-evaluation of UK construction's obsession with bespoke developments. These include: faster design & production to reduce client uncertainty & cost; much wider adoption of lean manufacturing approaches (including offsite); & increasing demand for infrastructure reconfigurable to unpredictable future needs. *Adaptables* addresses these pressures by focussing on adaptability, in initial design choices (pre-configuration) & subsequent changes in use (re-configuration), of complex, non-domestic buildings. Working with industry partners GSK, 3DReid, BWM & Buro Happold, it aims to develop new technologies & techniques responding to the need for adaptability without creating unnecessary redundancy & thus significantly increasing the initial cost. *Adaptables* aims to overcome considerable technical, process-oriented & people-related challenges inherent in realising adaptable building solutions.

The construction industry still relies on craft based trades and still suffers from poor performance and quality. Labour shortages, environmental legislation and higher performance demands will compound these issues. Where are the innovations that have been called for? Where are the technologies for a 21st century construction industry? Who is driving the development of new materials and process? Loughborough is embarking on an adventurous piece of research that will take construction technology way beyond anything the industry has seen – *Mega-scale Freeform Construction*. The step change technology will print full-scale building components, layer by layer, freeing the constraints of straight line form, allowing full systems integration. The new technology uses computer-based 3D solid modelling to drive precise control of construction material deposition... just click 'Print' for your building.

The Programme

1000h - Arrive (coffee and biscuits)

1030h – Introduction Alistair Gibb and a presentation from Buildoffsite

1130h – Overview of Loughborough University, Alistair Gibb

1200h – Adaptable Futures

1230h – Demonstration of Mega-scale Freeform (3D-printing for construction)

1330h – Refreshments and networking

1400h – Departure



Loughborough University Discovering offsite Tour

10.00am – 2.00pm – 29 October 2008

First name _____ **Surname** _____

Company name _____

Company address _____

Tel _____

Email _____

I am able / unable to attend the Loughborough University tour on the 29 October 2008, subject to availability.

I am a member / non member

Delegate places are strictly limited and applications will be treated on a first come first served basis. Attendance is free for Members of Buildoffsite. For non-Members a nominal charge of £100+VAT is applicable to cover costs. A confirmation email will be sent to you to advise you of a secured place.

Please return completed forms to anna.whiting@buildoffsite.com or fax to Buildoffsite at 020 7253 0523

Closing dates for applications – 24 October 2008

LOUGHBOROUGH UNIVERSITY

Department of Civil and Building Engineering

HOW TO GET HERE

For a map of campus see

<http://www.lboro.ac.uk/about/map/pages/map-full.html>



BY CAR

- M1 Junction 23.
- From the M1 take the A512 (eastwards) towards Loughborough.
- At first Roundabout (Holywell Park - was 'British Gas') - turn right (*NOTE - this is at the LEFT of the web map – not the main entrance at the right*).
- Travel approx 100 metres to another roundabout – then turn left.
- Stop at gatehouse. You will be given a visitor's pass, and maybe even instructions by the gatekeeper on how to find us.
- Pass under archway formed by building and then turn left down what used to be a dual carriageway
- The signs say "West Park" and "Sir Frank Gibb Building"

Please come to reception (Building 13 on web map).....

It is the 'Sir Frank Gibb building' with a large 'Civil & Building Engineering' sign over the entrance – see the picture

It is the 2nd building on the right as you go down the hill.

Park in the designated car park, or on the road if you can find a marked space.

Reception - Ground floor (Joy Hull)

If no one is in reception – use the phone and dial '3097'

I am in room R2-07 (second floor) – lift or stairs depending on how fit you feel

BY TRAIN

Loughborough Railway Station

Taxi is easy and will cost around £6.00-7.00

Best is to ask the driver to drop you off at the University's Ashby Road entrance (Engineering School) – you can't come through the barrier in a car here, but our building is only 30m from this entrance, straight ahead of you.

Alternatively, ask the driver to come into the University via the Holywell Park 'British Gas' entrance (officially called the West Entrance), off the A512 (then follow the instructions for car drivers above)

If the taxi takes you through the main Uni entrance it will take longer and cost more.

Bus is cheaper but takes a bit longer

The University Shuttle runs from the Station

Ask for the Engineering Faculty on the Campus

You will then get off within a few metres of the main Sir Frank Gibb building

Then follow the box instructions to the main reception or my office

BY PLANE

Nottingham East Midlands is around 20 minutes away by taxi

Have a safe journey!

Alistair Gibb

a.g.gibb@lboro.ac.uk

Room 2.07, CCCR, Sir Frank Gibb Building, Loughborough University

01509 223097

01509 228529 (Pam)