

BRIEF 02: BURO/BURN

BUROHAPPOLD

ENGINEERING



Concluding brief one 06/11/14

Please print out your scifi research at A3 and put it up on studio wall chronologically, treat this as an exhibition of exhibition quality.

Post the conclusive drawings, pictures, parametric files, video and models of your system on the blog before Monday next week. You need to do this before your tutorial.

Brief two: BURO/BURN begins 06/11/14

In parallel to your design work as set out in the following pages, you must each start producing an individual A1 panel on your own future visions of the future, speculating on technologies that may expand, reflecting on the shifting visions of the future. This will inform your brief three work later on.

There are two options for brief two as set out below...

Option One - Burning Man**Budget: US\$20,000 max****Client: Black Rock City LLC****Funding Submission: 15th Jan 2015****Delivery Date: 25th August 2015****Website: http://www.burningman.com/installations/art_grants.html****Deliverables: Grant application document (inc costs), large model proving buildability, blog post with drawings and renders. See previous posts from students (<http://wewanttolearn.wordpress.com/category/burning-man/>)**

You will propose a beautiful, playful, buildable temporary structure for Burning Man Festival 2015, which stems from and builds upon your brief one research, with the aim of inspiring awe and joy and be assisted in the process of seeking funding to realise this proposal as a DS10 group project during Summer 2015.



You may choose to project manage and deliver the project yourself or to be assisted by your tutors in the project's delivery, however it is a requisite of participation in this brief that you agree to allow your tutors to specify your build team to include DS10 students past and present in the build process as part of our ongoing academic research into self built architecture.

You will be expected to deliver a large model of a portion of your proposals proving the buildability of the design, as well as a cost estimate for the build.

The catalogue of design languages and experiments explored, and the digital techniques learnt, should form the basis of a small scale temporary proposal in the Arizona desert.

You will need to explore the social phenomena that is Burning Man festival, a week long event held in the Nevada desert where fifty thousand participants gather to create a temporary city, dedicated to community, art, self-expression, and self-reliance, departing one week later, and leaving no trace with the ten guiding principles set out below.

Radical Inclusion. Anyone may be a part of Burning Man. We welcome and respect the stranger. No prerequisites exist for participation in our community.

Gifting. Burning Man is devoted to acts of gift giving. The value of a gift is unconditional. Gifting does not contemplate a return or an exchange for something of equal value.

Decommodification. In order to preserve the spirit of gifting, our community seeks to create social environments that are unmediated by commercial sponsorships, transactions, or advertising. We stand ready to protect our culture from such exploitation. We resist the substitution of consumption for participatory experience.

Radical Self-reliance. Burning Man encourages the individual to discover, exercise and rely on his or her inner resources.

Radical Self-expression. Radical self-expression arises from the unique gifts of the individual. No one other than the individual or a collaborating group can determine its content. It is offered as a gift to others. In this spirit, the giver should respect the rights and liberties of the recipient.



Communal Effort. Our community values creative cooperation and collaboration. We strive to produce, promote and protect social networks, public spaces, works of art, and methods of communication that support such interaction.

Civic Responsibility. We value civil society. Community members who organize events should assume responsibility for public welfare and endeavor to communicate civic responsibilities to participants. They must also assume responsibility for conducting events in accordance with local, state and federal laws.

Leaving No Trace. Our community respects the environment. We are committed to leaving no physical trace of our activities wherever we gather. We clean up after ourselves and endeavor, whenever possible, to leave such places in a better state than when we found them.

Participation. Our community is committed to a radically participatory ethic. We believe that transformative change, whether in the individual or in society, can occur only through the medium of deeply personal participation. We achieve being through doing. Everyone is invited to work. Everyone is invited to play. We make the world real through actions that open the heart.

Immediacy. Immediate experience is, in many ways, the most important touchstone of value in our culture. We seek to overcome barriers that stand between us and a recognition of our inner selves, the reality of those around us, participation in society, and contact with a natural world exceeding human powers. No idea can substitute for this experience.

This small scale project should focus on architectural qualities, as much as numerical quantities, as well as providing a hugely interesting social and cultural backdrop, and should allow explorations of self sufficiency, economies of material, urban development and deployable temporary structures. Structural notions of temporality and economy of material should be explored as well as rapid deployment and suitability to the environment.



As a social experiment, the creation of a temporary city of 50,000 people with a distinct social agenda, such as cooperation, and a place of zero fiscal transactions, where everything is based on trades alone, as well as having to bring everything you need with you, water, food et al, introduces the concept of closed loop systems, autonomous living, radical self reliance in extreme environments.

You will develop a low cost fabrication logic which can be easily assembled and disassembled and takes advantage of the existing context. The system should be digitally calibrated through the use of

environmental and structural analysis. Understand material systems chosen, think about how your proposal is transported, how it is unpacked etc and consider the following.

Temporality. Pop up architecture / programs / rapid deployment / zero footings / grown buildings

Autonomous buildings / Radical self reliance. Water / electricity / food

Designing in extreme environmental systems. Sun / sand storms / arid environments.

Structural logic. Economy of material / temporal innovative construction techniques / assembly logic

Option Two - Buro Happold**Budget: £5000****Client: Buro Happold Engineering****Submission date: 15th Jan 2015****Delivery Date: 15th February 2015 (tbc)****Visit Date: tbc****Website: <http://www.burohappold.com/>****Deliverables: Large model, Drawings, Renders, blog post with all documents, Cost Estimate.**

In collaboration with, and funded by, Buro Happold Engineers, you have the opportunity to design one project that will be potentially installed across three different locations at Buro Happold's new London headquarters and to build the project as a group for completion in February 2015.

You need a proof of buildability, a large model that shows the actual scale, materials and assembly logic that can be multiplied on the three sites.

The client will decide on the 15th of January which individual design or designs they wish to pursue and at that point we will assign you into a group or groups to fabricate and install the chosen proposals.

You will further your individual brief one research and develop a buildable system which can be adapted and installed in any one of the three locations below

Client Brief (drawings in the email):**Location one: 71 Newman Street – void between glazing at ground level**

- Visually striking
- Demonstrating digital or 3-D fabrication
- Visual link between 17 and 71 Newman Street
- Partial screen from onlookers
- Needs to integrate with dim out blinds
- May consider change/refresh periodically (annually or biannually) but must look and "feel" permanent



Location two: 17 Newman Street - void between glazing at first floor level

- Visually striking
- Demonstrating digital or 3-D fabrication
- Visual link between 17 and 71 Newman Street
- Partial screen from onlookers
- Needs to integrate with dim out blinds
- May consider change/refresh periodically (12/24 month) but must look and "feel" permanent



Location three: Newman Street – curtain

- Visual Screen between the front of house reception and cafe areas
- Does not need to be fully opaque
- Should be easy to temporarily remove for events
- Should have some acoustic properties
- Possibility of replacing this annually as a student project?
- Possible family of smaller room dividers



Suggested reading:

Engineering for a Finite Planet: Sustainable Structures by Buro Happold

Material Computation: Higher Integration in Morphogenetic Design Architectural Design

Emergence: Morphogenetic Design Strategies

Digital Fabrications: Architectural and Material Techniques

Tooling, Arranda/Lasch

Tribes of Burning Man, Steven Jones

Afterburn, Lee Gilmore

Enabling creative Chaos, Katherine Chen

This is burning man, Brian Doherty

Critical Path, Buckminster Fuller

Fruit, Seeds, pollen, Wolfgang Stuppy and Rob Kessler

Quadrivium

Makers, Cory Doctorow

1000 plateaus Gilles Deleuze, Felix Guatarri,