Manchester
School of
Architecture
Yearbook
2015

Contents

Introduction

Space is a consistent theme within the Manchester School of Architecture (MSA). The definition and occupation of space, and how this is codified through use, formalised through building and assembled in different forms to support individual needs, or coalesce into collective forms, sits as a core concern within our practice. The interaction between space and form often produces results that are unexpected and provides a rich territory for developing creative dialogues both within and beyond the School.

This year has seen numerous examples of these exchanges. We believe in connecting beyond the School at all levels and in all areas of our activity. 2014-15 has seen us welcome the newly awarded RIBA Gold Medal Winner Sheila O'Donnell, host international symposia including the Anglo-Danish Liveable Cities conference and exhibition opened by Claus Grube, HE the Ambassador of Denmark, and successfully participate in design workshops in Cuba, China (and Preston) and elsewhere. Our students have designed and constructed innovative housing prototypes on site in Ecuador as part of our internationally reaching design research work. Closer to home we worked with the Traveller community in Blackpool to design, procure and construct a playground, completed this spring.

Research is key to our work. In the Architecture Research Centre (ARC), Architecture and Cultural Heritage in India, Arabia and the Maghreb (ArCHIAM), undertakes award winning internationally exhibited projects in Oman, the Centre for Spatial Inclusion Design-Research (cSIDr) develops world-leading approaches to delivering age-friendly city policy. Together with the practice-oriented work of the Manchester Architecture Research Centre (MARC) this demonstrates our commitment to extending the understanding of architecture and design across the wide range of the discipline, disseminated through high quality publications, international presentations and exhibitions.

We believe in our collective responsibility to participate in debates that form the intellectual and academic space we work in. MSA students, who are leading figures in the national Architecture Students Network (ASN), have been active in the discourse currently shaping the future landscape of architectural education. This year we had the pleasure of hosting the 2015 ASN conference and actively participating (in numbers) at the RIBA Education Forum event at 66 Portland Place in March.

MSA understands the studio as a space within which we can explore and test research questions. The act of design connects practice with research and is a critically acute means of developing new knowledge. Policy, culture, economics and politics can be described spatially and formally through architecture, allowing us to map potential futures that can inform decisions and responses to the grand challenges that face us. Aesthetics are a means to embody, represent and test meaning within inhabited space. Their use is a skill that our students develop within the multi faceted context of architectural study seen here. We are proud to present this selection of our work.

Prof. Tom Jefferies
Head: Manchester School of Architecture
June 2015

msa

BA (Hons) Architecture

Architecture is an expanding field in both its study and practice. We believe that one of our strengths at the Manchester School of Architecture is our diversity. We have a diverse student body of young people from all over the world. We have a great range of interests amongst our teaching staff. We have an amazing workshop provision that allows us to make in almost any media we choose. We have a lively research culture that informs our curriculum. We have all of the facilities of two institutions at our disposal and we have partners from across the city of Manchester itself who want to work with us to provide a platform where any student of architecture can succeed following their own interests supported by this flexible framework. The Bachelor of Arts in Architecture is a fantastic programme for anyone considering a career in design and the perfect foundation for lots of trajectories in the creative fields. Our students are graphic designers, makers, thinkers, researchers, historians, visionaries, actors, ambassadors and, with our help, assimilate these positions into their version of Architect.

We want to help our students to become the designers that they want to be and we design our course to enable the practice, conversations and learning that will achieve their aims and ambitions. Projects increase in scale and complexity as the students move from year one to their graduation after year three, but the ambition on the part of students and staff is consistently high. Graduates from our course work in all sorts of industries associated with the built environment, as well as becoming successful architects in their own right. As such, the work presented here as a snapshot of our BA course is demonstrably broad in its media and presentation and this is a fraction of the things that we do in pursuit of our shared passion - Architecture.

Year 1

Vik Kaushal, Anna Gidman, Rick Dargavel, Julie Fitzpatrick, Matt Pilling, Dr Luca Csepely-Knorr, Dr Joanne Hudson, Dominic Sagar, Dr Laura Coucill, David Connor, Urun Killic, Deny Jones, Will Stewart, Becky Sobell, Kate Stott, Richard Morton.

First year at Manchester School of Architecture has focussed on the unique character of Manchester's Oxford Road. This deeply diverse and unique extended stretch, from the Central Library to Leonard Cecil Howitt's Toastrack, has afforded students the imaginative capacity to develop interventions at a number of scales. Beginning with the detailed exploration of the intricate connections between user requirements and spatial qualities, the first project considers an urban habitat for an animal.

Throughout the year particular emphasis is placed on building a rich narrative alongside a robust set of skills. Imaginative structural and material testing was undertaken through the large scale modelling. Approaches to design research are integrated throughout the projects; building a deep understanding of ergonomics and anthropometrics by examining how the relationship between animal and man has evolved over time.

The year crescendos with the investigation and application of social and cultural anthropology through the design of a community building with a series of assembled spaces, culminating in the production of large scale drawings and a collection of artefacts which draw together the themes, projects and scales addressed throughout the year.

Habitat and Fabricate

Habitat explored the relationship between a specific being and an urban site through the design of a home for an animal. Each project began with an understanding of the anatomy and habits unique to the being.

Subsequently fabricate introduced the idea of volume through the detailed large scale modelling of the habitat project. Each model considered materials form and light to progress ideas spatially.
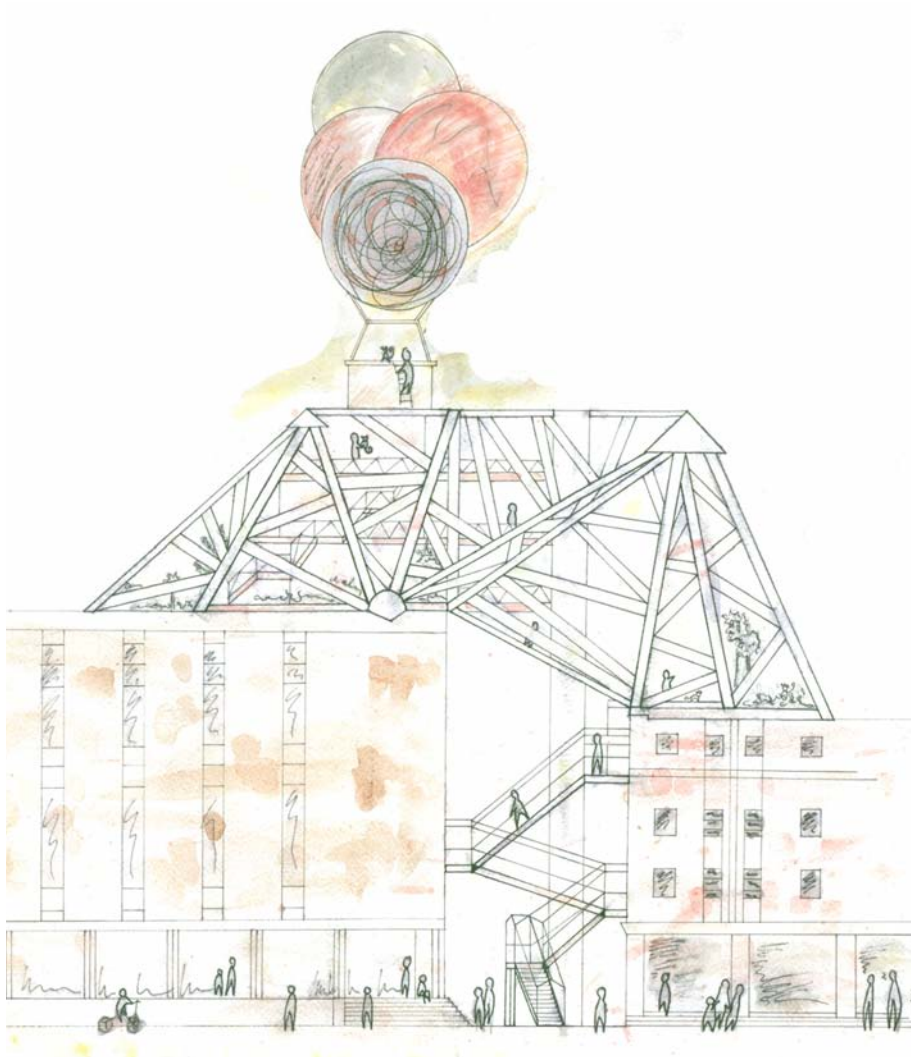

Top: Nina Watts
Bottom: Amalia Binti Ab Aziz
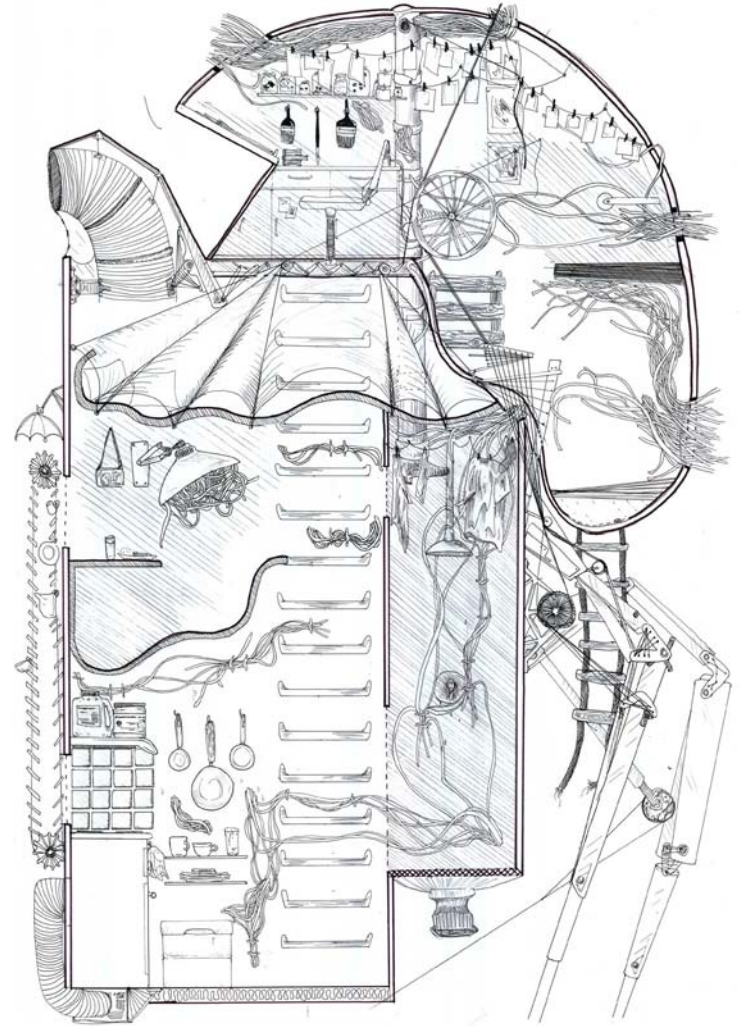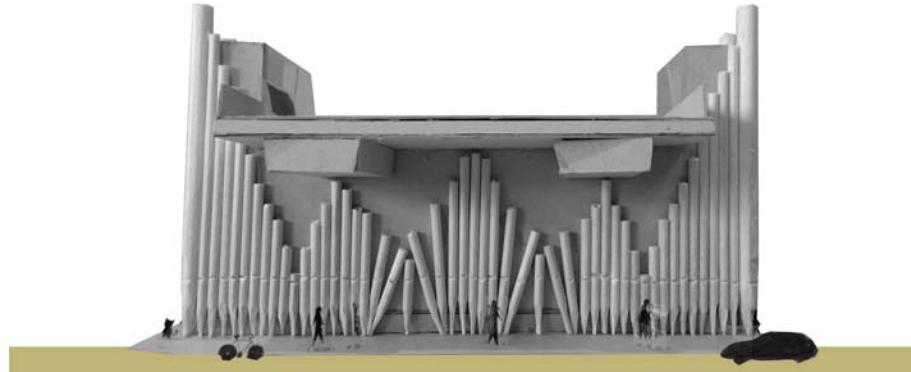
Nina Watts / Transience

The transience project explored the ideas of moveability and the notion of 'home' through the design of a mobile house as small as a car parking space. Each project began by considering the human form and specific ergonomics and personality of the owner.

Assembly / Amalia Binti Ab Aziz

Assembly considered a number of specific volumes of space assembled to create a building. Starting with the research of earlier projects, the spaces were designed to consider the individual and collective functionality of the building.
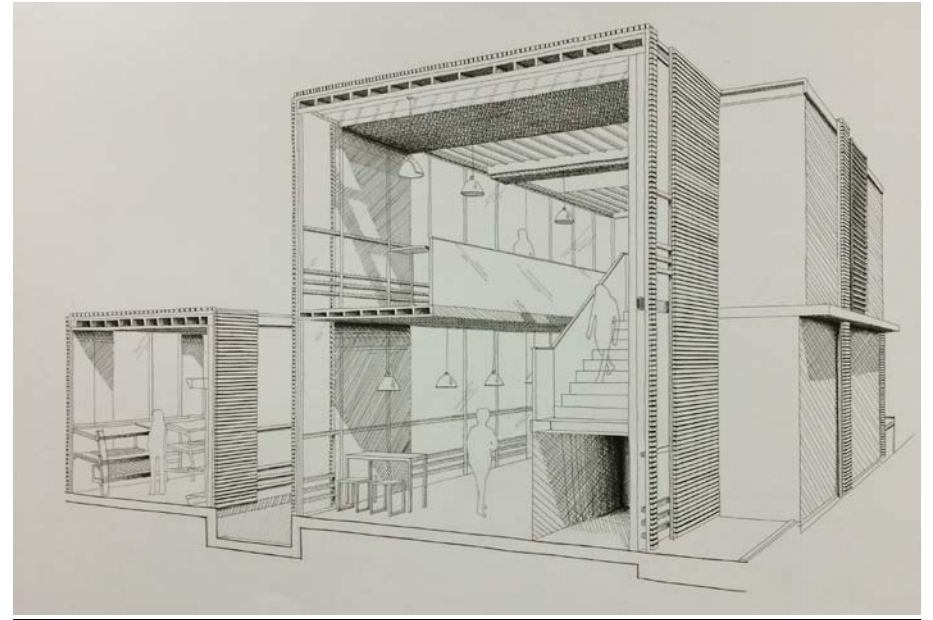
Top: Andrea Popescu
Bottom: Lisa Han

Year 1

Jing Mei Lew

Charlotte McManus

Sectional Perspective

Narrative

East Elevation

Section AA

Resolution / Andrew Boness

Resolution challenges the students to explore their designs in depth and breadth by producing large scale drawings which draw together the narratives of all studio projects. The final artworks included plans, sections, elevations, an exploded axonometric and perspectives set with in the context of Oxford Road.

Year 1

20

21

EXPLODED AXONOMETRIC

Oxford Road Plan
With Year Narrative

Section

Nico Alexandroff / Resolution

Year 1

Resolution Models / Theo Tamvakis

Presentation quality models of the Assembly
project.

Year 2

James Robertson, Urun Kilic, Vicky Jolley, George Epolito, Michelle Tomlinson, Siobhan Barry, Matt McKenna, Dragana Opacic-Wilkinson, Claire Bandy, Dominic Sagar, Artemis Doupa, Griff Evans, Jaymeni Patel, Ash Hunt, Carrie Lawrence, Eddy Fox.

Students on the Year 2 BA (Hons) Architecture programme find themselves at a unique point in their studies, being both retrospective and prospective in the undergraduate trajectory. Having begun the year refreshing, reinf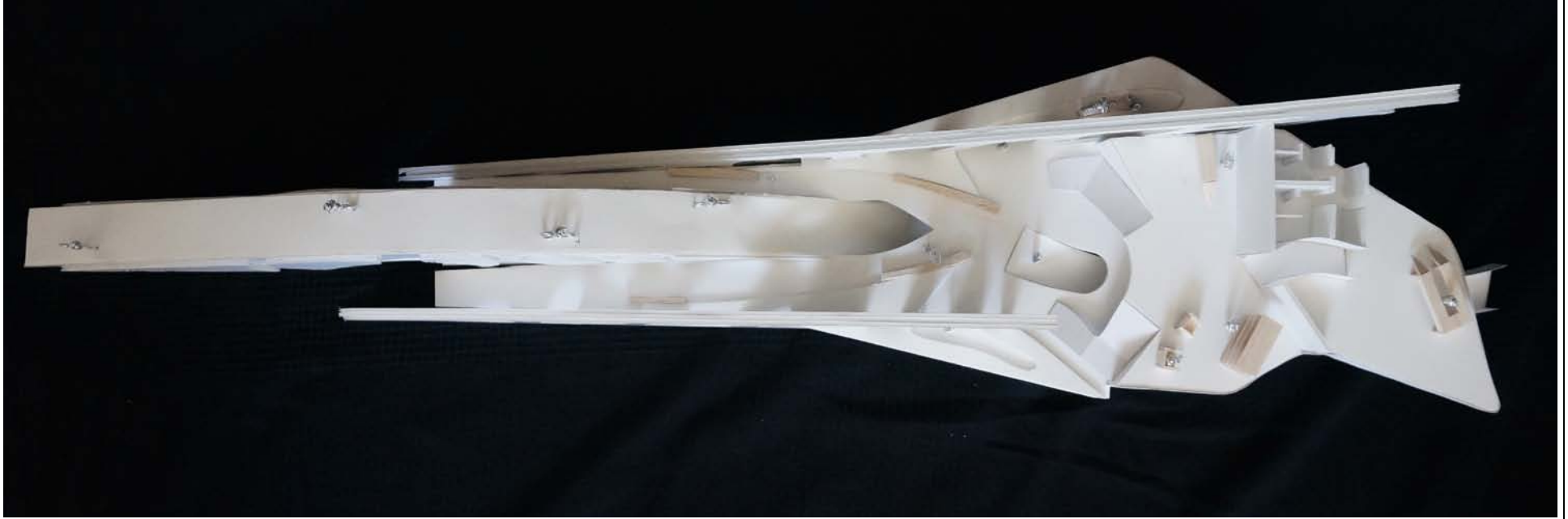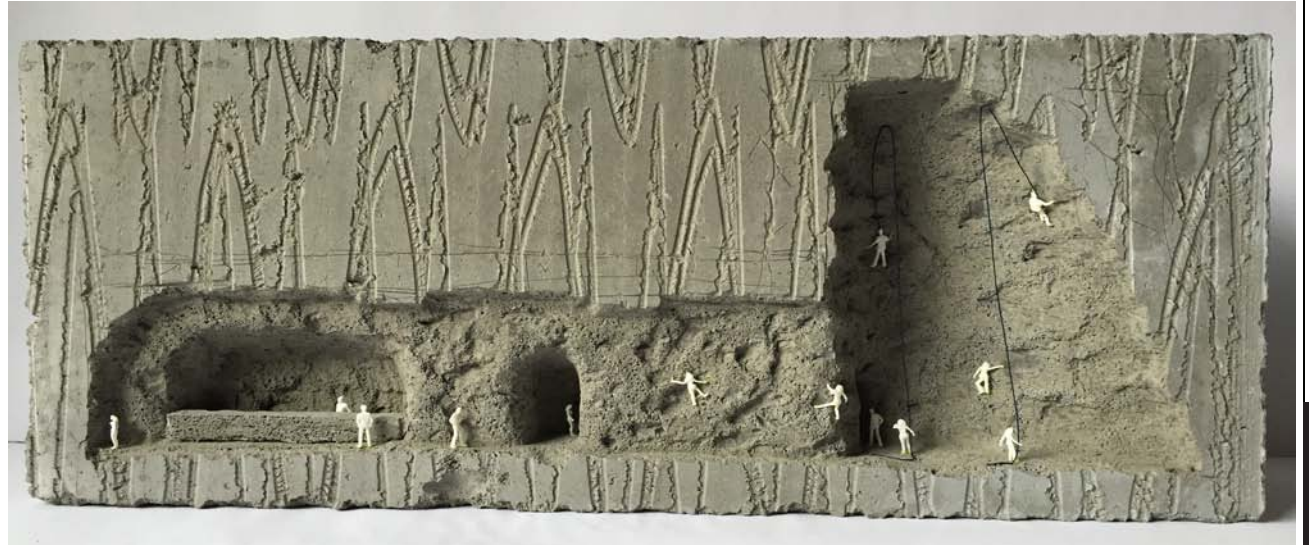orcing and extending skills acquired in Year 1, students move through the year, increasingly anticipating the culture and expectations of Year 3.

We have been concerned with developing a fluency in both the language of technology and aesthetics, and understanding their overlapping genesis. As such, it was envisaged that a studio culture would emerge that was both spatially creative and technological, stemming from an underpinning academic strategy concerned with the notion of 'framing' and 'structuring'. The year has also revealed an underlying inquiry into how, as architects, we can navigate through the design process.

The students began the year by creatively reviewing and reinforcing skills learned in BA1, such as diagramming, graphical analysis and architectural drawing conventions. These skills were then enriched through subsequent design exercises. These exercises were twofold; the first focused on the design on constructional components in isolation - devoid of context - with the specific intent of resolving the relationship of the parts within a specific component.

The second had students simultaneously investigating in groups, the territory of Levenshulme - a specific context which they would revisit periodically during the course of the academic year. Students were eventually asked to review the previous work designed in isolation and to contextualise it with new issues such as programmatic selection and development with territorial analysis; the latter serving as a preview to a similar process in the following academic year.

Seeking to refine the curriculum from last academic year, several points were addressed in order to enrich course content. These included the notion of research by design, where the value of an iterative design process was recognised through regular review, experimentation and questioning. Secondly, the addition of a small-scale building in the first term gave students the opportunity to further develop ideas of building design at a smaller scale, before embarking on the major project in the second term. Finally, as a method of introducing students to industry-led techniques, students were asked to use the medium of 3D printing in order to follow the design complexities of a specific idea within their project investigations.

It is hoped that that the Second Year of the BA (Hons) Architecture course as a whole has been an exciting and meaningful experience and also something of a preview to the students' graduating year ahead.

**Isolated: Translate, diagramming plans /
Anton Tkachuk**

Analysis of building plans to reveal underlying
patterns, strategies and hierarchies.
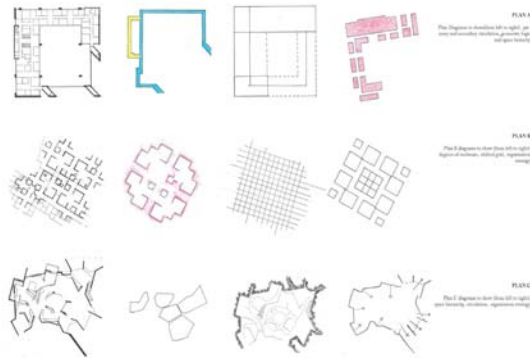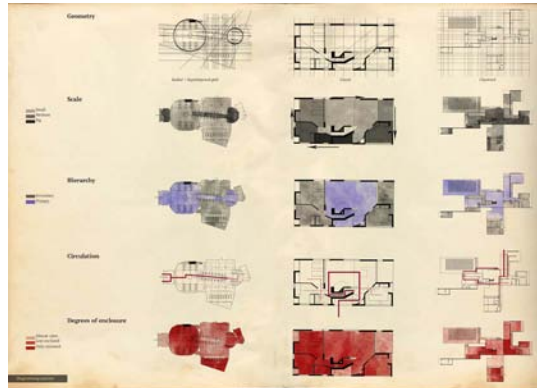
**Opposite page:
Isolated: Creative Constructs
Top: Gregory Kokkotis
Middle: Steven Msowoya
Bottom: Michael Jenkins**

Investigation of the technological and aesthetic
characteristics of repetitive structure.
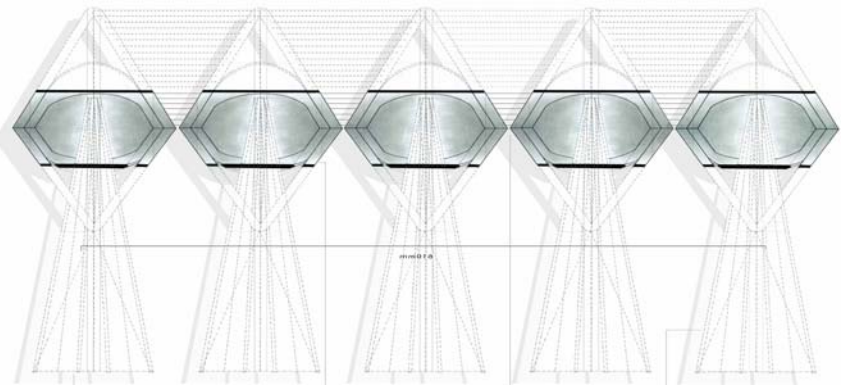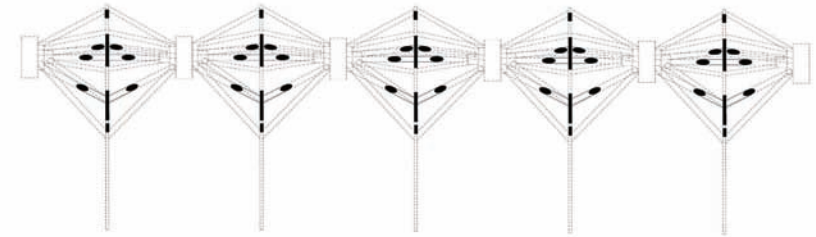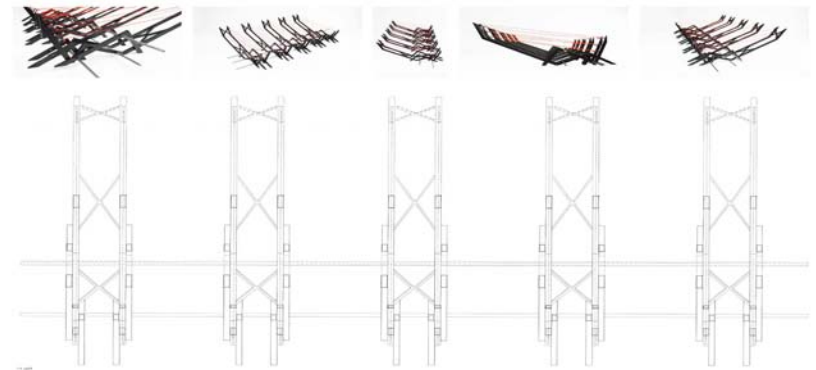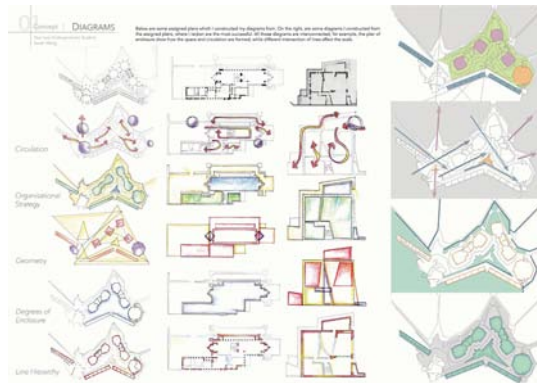
Contextualised: Creative Constructs,
Small-scale building / Bogdan Satanciu

Investigation of the possibilities of structure in the
framing of space, and preliminary investigation
into the relationship of structure to skin.
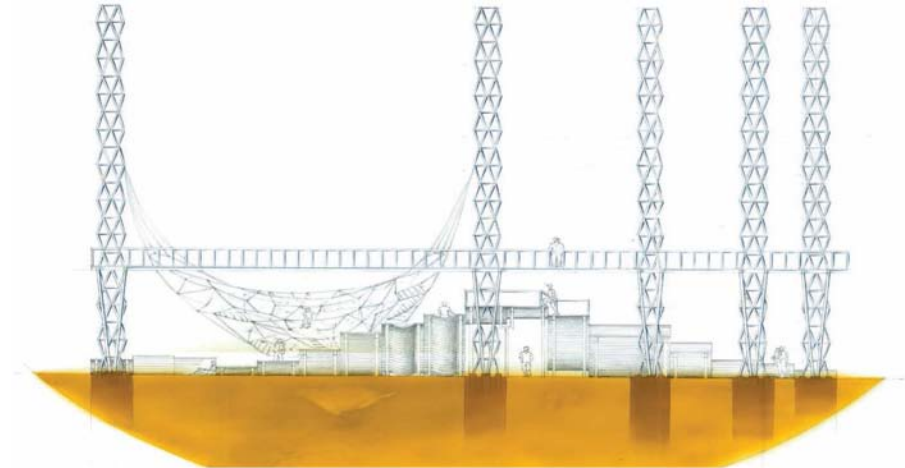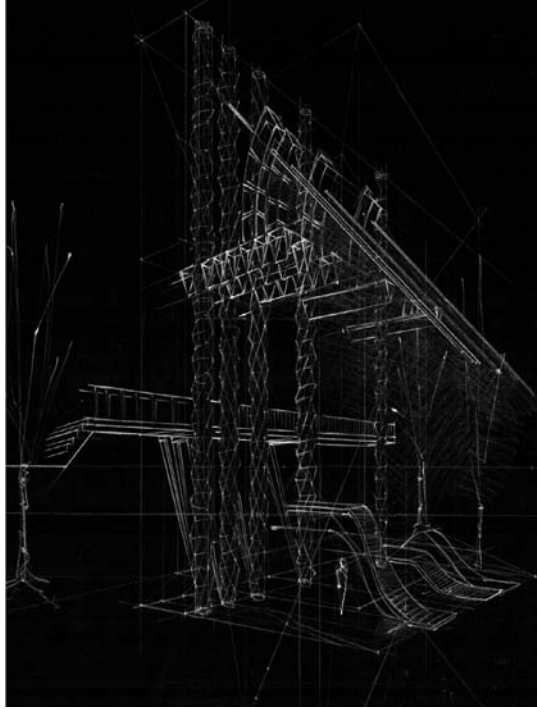
Contextualised: Creative Constructs /
Michael Lee

Year 2
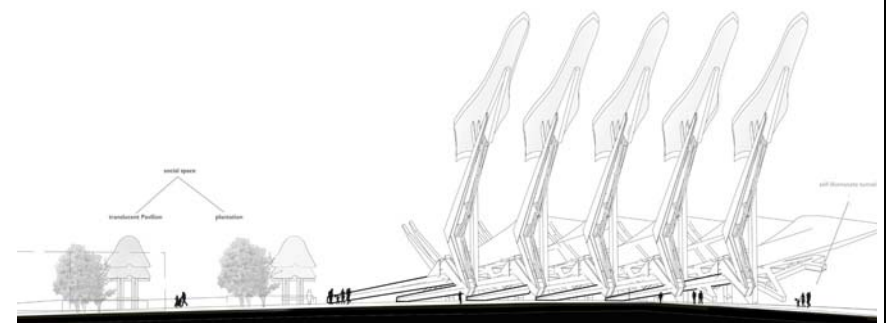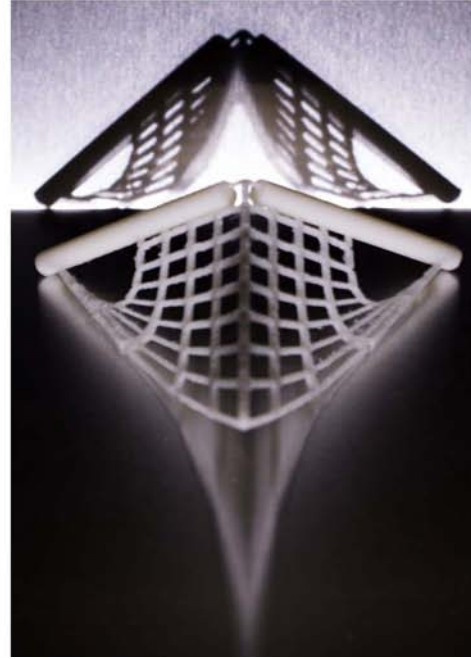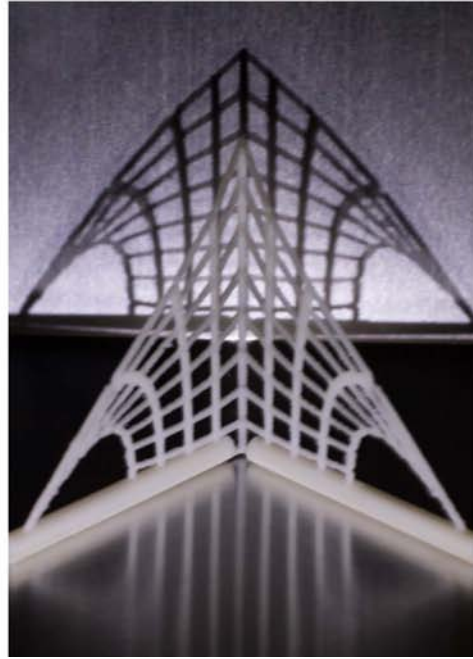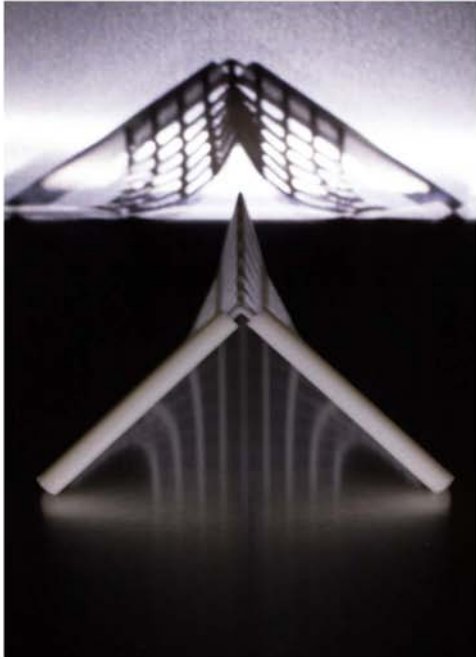
Using the medium of 3D printing to understand the design complexities of a detail, as an introduction to industry-led techniques.
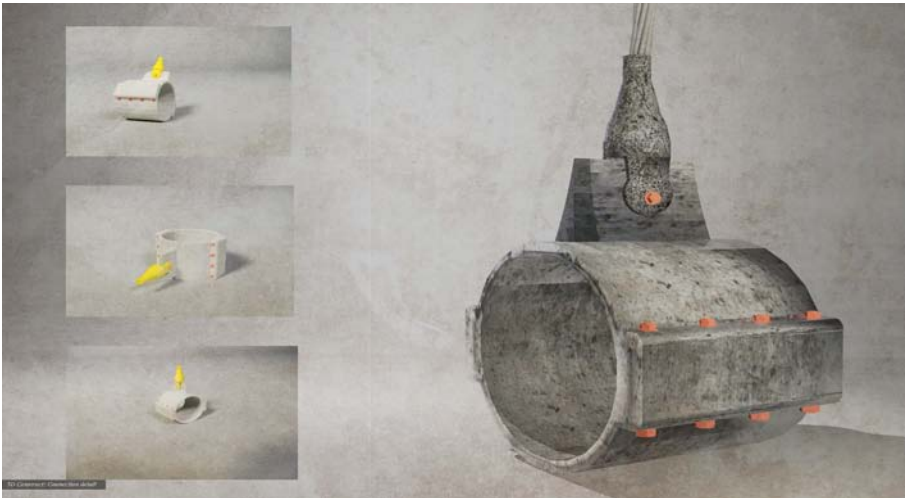
Isolated: 3D Constructs / Anton Tkachuk
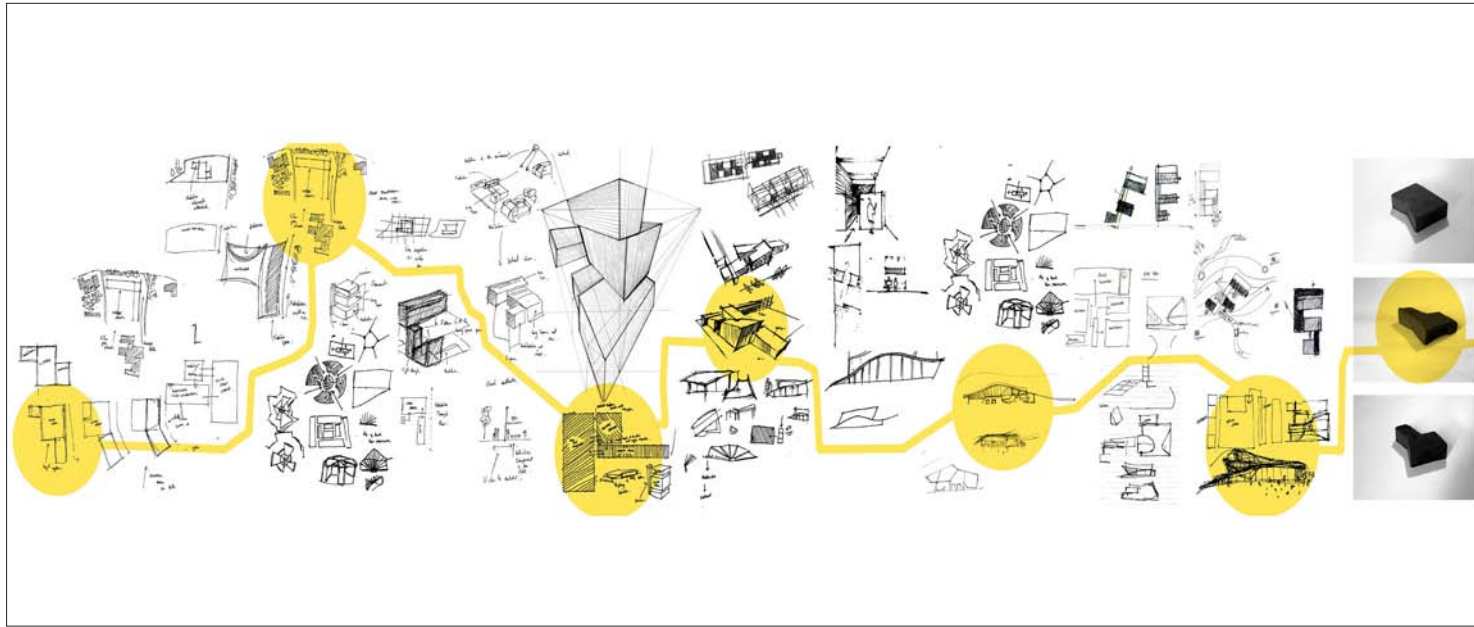
Year 2

Synthesis of previous work with the spatial and pro-grammatic complexities of a larger-scale design project.
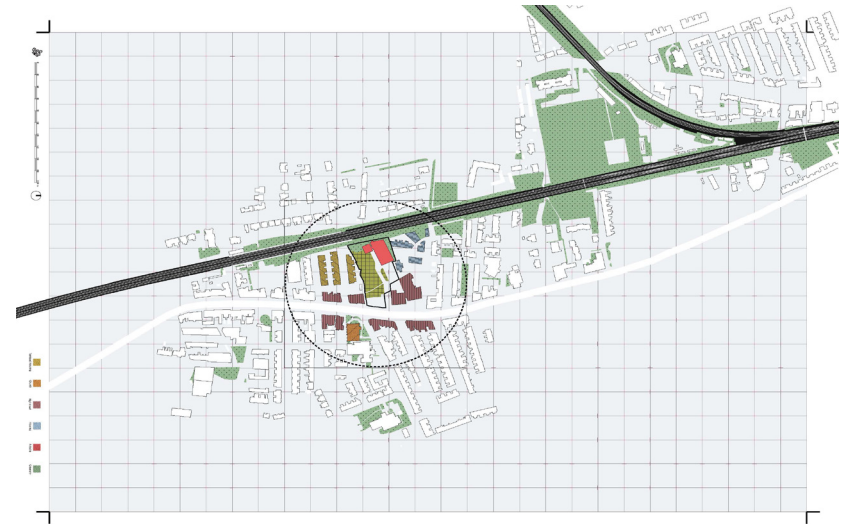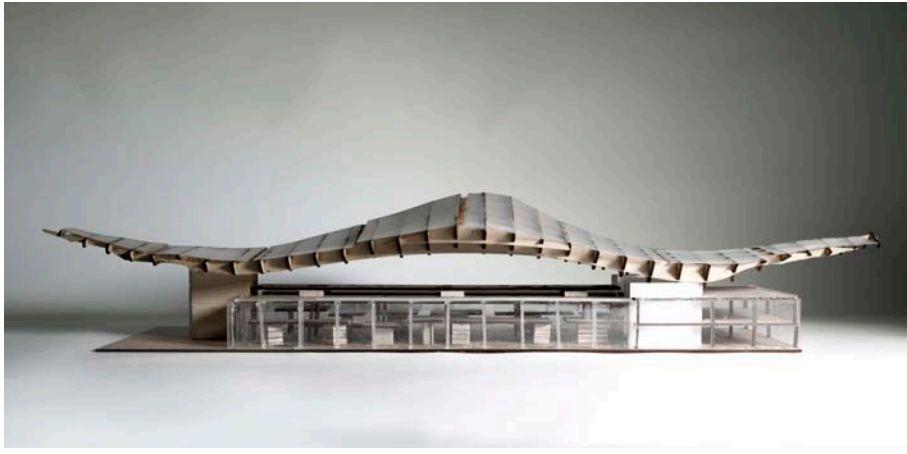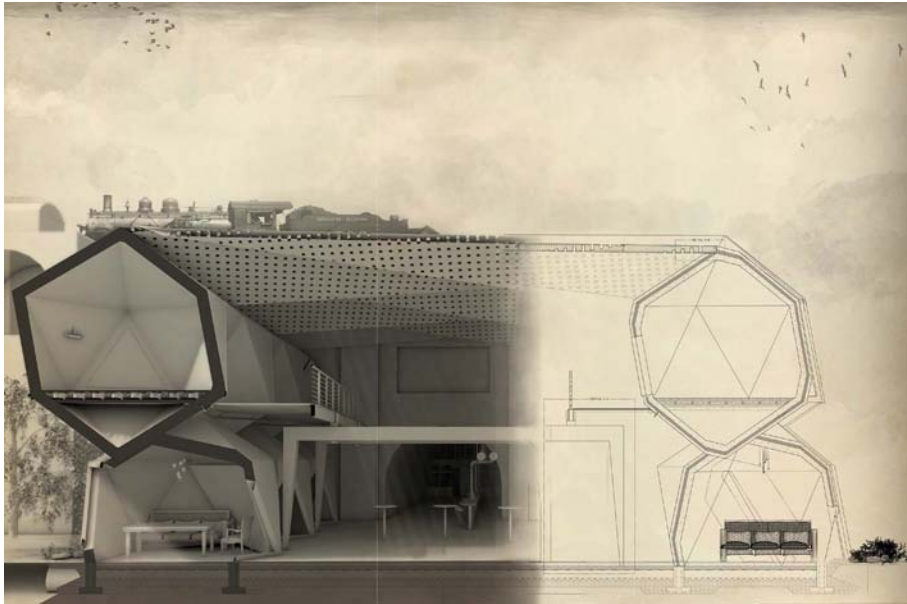
Contextualised / Refinement & Resolution
Top: Anton Tkachuk
Bottom: Michael Lee

Contextualised: Refinement & Resolution
Top: Mahalah Attwell-Thomas

Refinement and resolution of the Levenshulme Life project with a further layer of detail to complete the project.
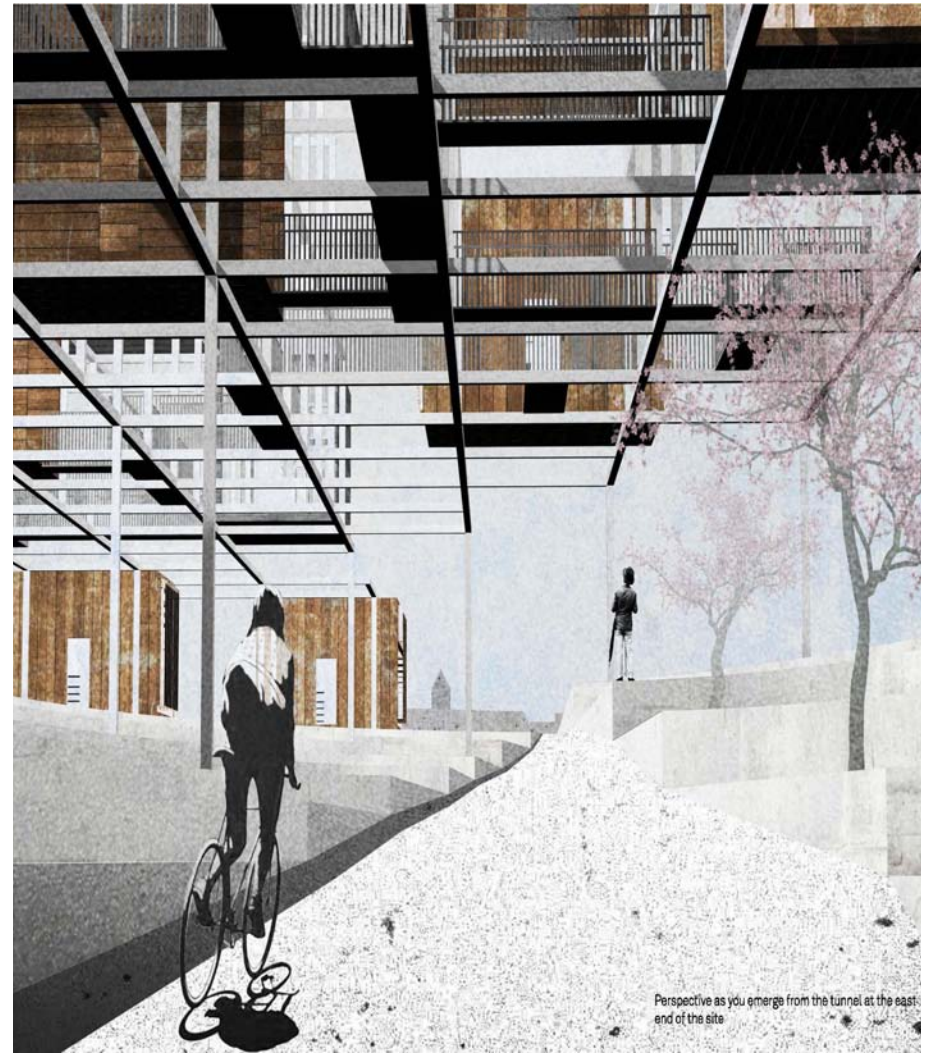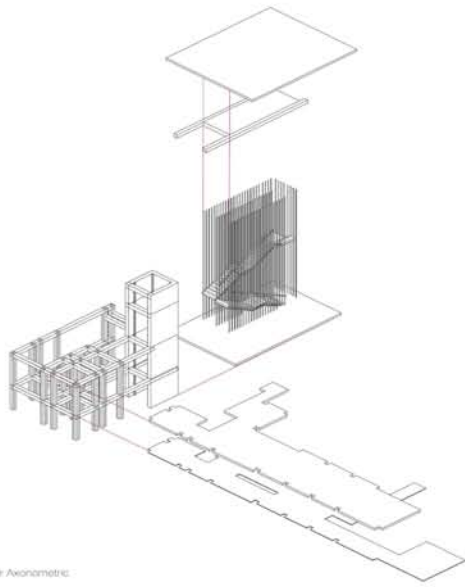
Perspective as you emerge from the tunnel at the east end of the site

Year 2

Stair Axonometric
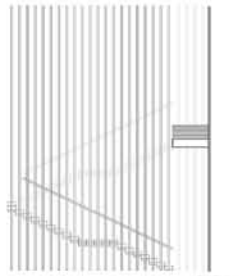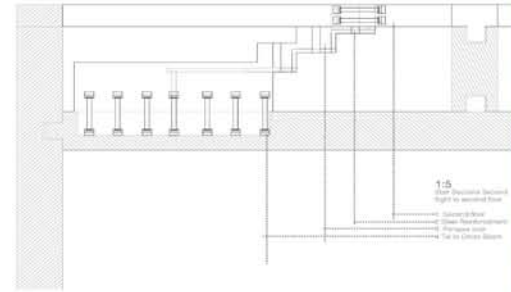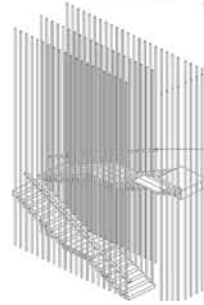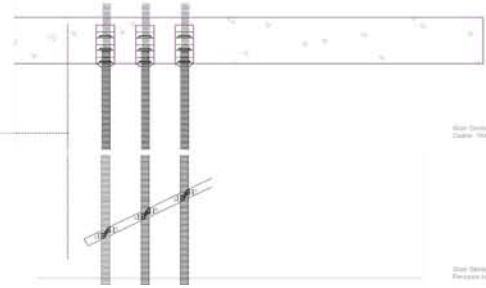
Contextualised: Refinement & Resolution
Top: Rebecca Faulkner
Bottom: Elina Brodska
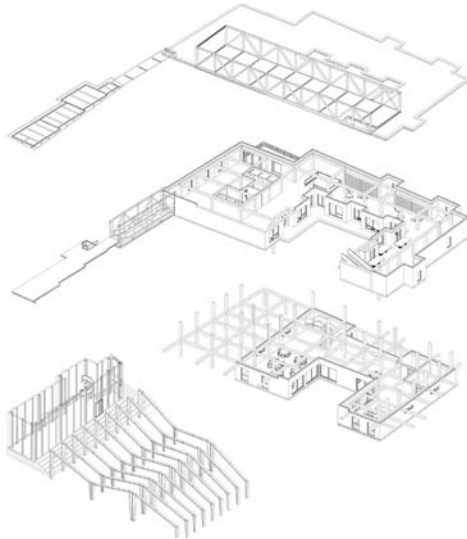
Year 3

Richard Brook, Amy Hanley, George Epolito, Dan Farshi, Maryam Osman, Stephen Connah, Ronan Connelly, John Lee, Emma Tanti, Mike Daniels, Laura Coucill, Matt Pilling, Helen Aston, Sarah Renshaw, Stephen McCusker.

BA3 Architecture Studio realises a whole year project, initiated with the development of a group agenda and latterly informs a building proposition that responds to the contemporary city, supported by an atelier approach to architecture. Project research focuses on Manchester's urban context, considering the city as a site of social agency. Individual programme proposals connect context, agenda and site through design responses to observed activity, events, work and other social practices. Sketch plans, sections, models and video recordings are used to define project programme spaces and their response to key environmental considerations and site conditions.

In the resolution of a projects building form, the iterative development of models and drawings at a range of scales tests and refines material, structural and environmental organisation. Investigations into material culture engage atelier led tasks, selected literature and aligned studio lectures. Studio activities and events include building visits, design charrettes, tutorials with guest experts, peer reviews, and cross-atelier presentations. In the resolution of a student led design scheme the use of presentation tools, techniques and compositional practices in the production of drawings and models form the content of a digital portfolio. Decisions made through the editorial and making process shape the design. Making and reflecting upon the process of design and communication are recorded in design reports.

Design, fabrication and assembly of atelier based shows, presents the context and depth of thinking involved in each students project. Atelier groups are involved in the research of exhibition typologies, analysis the show spaces, exhibition scenography design and making exhibition pieces for display. The shows approach to group working supports practices that are developed through the three years of the BA Architecture course.

MSA Praxis

Helen Aston, Stephen McCusker, Sarah Renshaw.

MSA Praxis investigates real communities   using our architectural research and creative skills in parallel with the deep local knowledge of residents to develop imaginative collaborative projects working towards making cities more inclusive. Proposing projects for the district centre of Cheetham Hill as a place shared between people of all ages, abilities, attitudes and occupations, third year students to collectively investigated, interrogated and tested design processes. By participating and engaging in the public realm we explored alternative forms of spatial practices, to propose architectural explorations within an interdisciplinary context.

We developed propositions by using participative techniques grounded in both theoretical texts and innovative practices. HAving set up six architectural practices, housing briefs were developed in response to real issues, creating projects grounded in current live connections with stakeholders who understand the particulars of that place.

As one of the poorest wards in Manchester, Cheetham Hill experiences extremely high levels of both social and physical deprivation, resulting in a fragmented and splintered built environment. Projects were generated through varying degrees of contact and collaboration with residents. We designed housing which would be informed by defining a collective voice, an issue and a place. Early analysis helped develop ideas into projects developed from investigations immersed within the community.

Throughout the year questions have been raised through briefs, texts and discourse addressing the historical, current and future role of the architect, which enabled responses to propose and transform the social, political and economic conditions of Cheetham Hill.

In order to propose options for the possibilities of shared space within the local area, groups of students have collaborated with individuals, local community groups such as Trinity Centre, and local schools

Abraham Moss and Manchester Communications Academy, organising and running workshops and events to understand the issues of residents and to document their multiple and varied voices. At times when large-scale territorial mapping had been required, individuals were also asked to draw their proposition at 1:1 scale. This allowed the atelier to challenge their design processes and find alternative ways of communicating the issues and artefacts of everyday lives.

As many architectural practices, built environment professionals and communities are constructed within and around many stereotypes and assumptions, the atelier has aimed to debate, critique and counter-propose projects through event and scenario based outputs. We have worked at times in parallel with the MSA Projects MArch atelier, investigating the housing crisis in Manchester. Working alongside local and international practitioners from Heatherwick Studio, AWP Paris, Pozzoni, GA Studio and Urbed, a week-long Design Pickle in November, was undertaken driven by shared research questions.

Thanks to all of the many participants involved this year, plus additional thanks to our visiting critics Neil Allen, Scott Bearman, Mark Hammond, and Kate Stott.

MSA Praxis students 2014-15:
Muna Al Fayez, Glory Alozie, Charlotte Grace Ashcroft, Elena Tocheva Balabanska, Freddie Bosson, Anya Katharina Cardwell, Lok Sze Cheng, Nicola Hu Ching Cheung, Abbey Costello, Oliver Cutter, Serena Sanushka Dias, Thomas Dickason-Palmer, Emma Engelmark, Dimitra-Rafailia Evmorfopoulou, James Georgiades, Zuzanna Godek, Georgina Govan, Julia-Vanina Hahn, Maria Iliopoulou, Luke Irving, Alice Kate Iona Jenkins, Matthew Jones, Olugbenga Akinkunmi Ogunsola, Viano Helen Oniomoh, Meriel Victoria Serlin, Pruthvi Shah, Jaemin Shin, Julia Smith, Alexandra Storr, Jirapas Tantipiriyakji, Paul Andrew Thornber, Natalia Elena Walker, Jack Whetton, Shu Wing Yeung

Mobile Praxicality Architectural Practice /
Jack Whetton, Anya Cardwell, Charlotte Ashcroft, Tom Dickason-Palmer
Practice Manifesto/Womanifesto
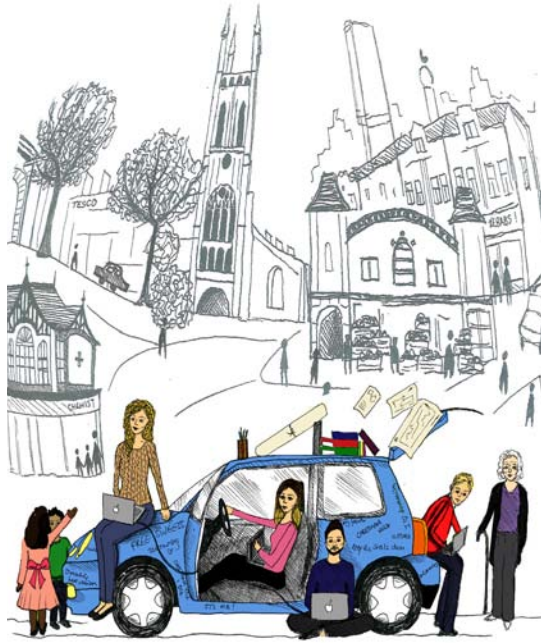
Almost Architects Architectural Practice /
Olu Olugbenga, Maria Iliopoulou, Glory Alozie, Viano Oniomoh, Jaemin Shin, Alex Storr

Practice business cards

Jaemin Shin
MSA Praxis
almostarchitects@outlook.com

Aa.
Almost architects

'While the city can be studied, mapped, diagrammed and probed from many professional perspectives, there is no substitute for the actual experience of a place.'
Eveyday Urbanism

Aa.

Praxis Handbook

Ignition   1
Mirror   2
Signal   3
Manoeuvre   4

Common Place Architectural Practice/
Emma Engelmark, Abbey Costello, Paul Thornber, Matt Jones, Elena Balabanska, Julia Hahn

VARIABLES

A PARK   I'M A SIGN

ORGANIZED   RANDOM   SUGGESTION   SIGN / NO SIGN   INTERACTION
PLACEMENT   PLACEMENT

PLACEMENT - TEST

JUNCTION   HIGH TRAFFIC   WAITING POINT   SHELTER
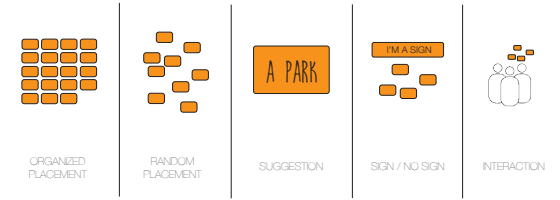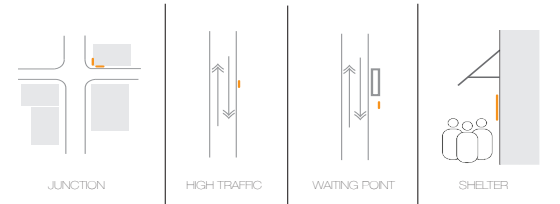
THE SHELTERED SITE   THE TEST SITE NEXT   THE SITE NEXT TO THE   THE SHELTERED SITE
NEXT TO THE BANK   TO THE BBC WAS   BUS STOP WAS   NEXT TO THE BANK ON
WAS A MAIN   CHOSEN TO GAIN THE   CHOSEN SO PEOPLE   OXFORD ROAD WAS
PEDESTRIAN JUNCTION   MOST COVERAGE AS   WOULD FEEL   CHOSEN TO TEST IF
CHOSEN FOR THE   POSSIBLE   COMFORTABLE   PEOPLE WOULD FEEL
AMOUNT OF FOOTFALL   ENOUGH TO STOP   MORE COMFORTABLE
THAT PASSED   WRITING UNDER
                                                                          COVER

Cheetham Hill/ Harpurhey
Tell us what you think of your area!
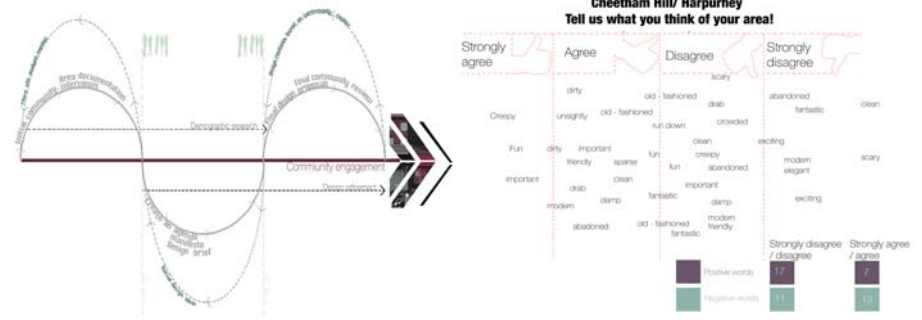
V6 Architectural Practice, Practice diagrams / Freddie Bosson, Alice Jenkins,
Meriel, Serlin, Pruthvi Shah, Serena Dias and Jirapas Tantapiriyaki

Atelier 1

Hub of Cheetham Hill, 1:1 For the love of detail / Jack Whetton

This social housing and mixed used scheme for families with dependent children repsond to todays mixed family size composition with three housing typologies and are designed to provide a sociable and safe upbringing. The mixed use space provides units for new or struggling businesses at a reduced cost, when employing women who are part of the social pop up space directly above. This space allows women to build social, IT and communication skills, allowing them to put that into practice in the community outlet below.
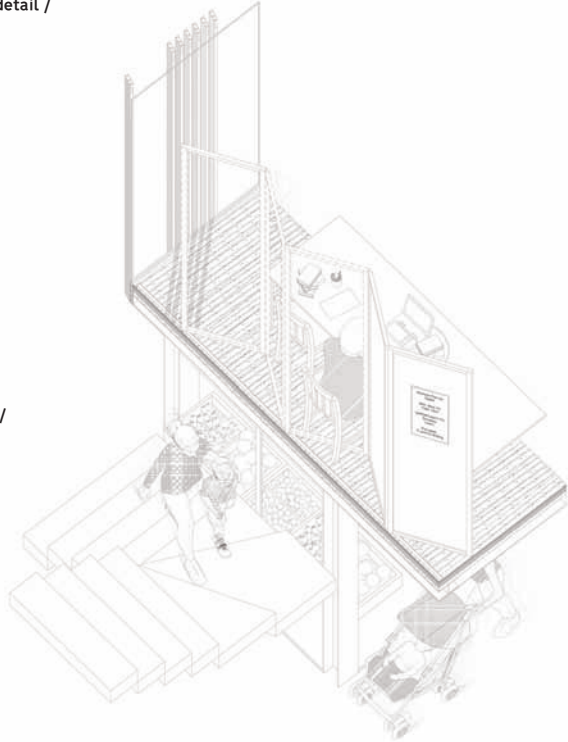
Future Flexibility, 3 storey house section / Freddie Bosson

Aiming to encapsulate and create community style and shared living stemming from the modern phenomena that is gentrification. This project aims to attract young people and businesses to Cheetham Hill in an effort to generate vibrancy and commerce where gentrification has been known to disrupt and sometimes destroy community cohesion.

This section of the 2 storey house demonstrates the different levels of the dwelling. The 2 garages underneath, other create an independent space from the main upstairs living area. The raised living spaces create a secluded that only residents can use therefore adding a level of privacy and security at that level.

Hub of independence and creativity for young adults Street perspective / Oli Cutter

A hub of independence for the young, creative adults of Cheetham Hill. The scheme consists of 18 four bed houses and 3 three bed apartments, an arts and music centre is also anchored in the corner of the site which houses studios and performance spaces.

Ability Housing Courtyard / James Georgiades

The project is aimed at providing specialised housing for those with Cerebral Palsy. Focusing on abilities which range from those needing full time care, to those living in independent bungalows.

HOUSE PLAN type3 at 1:50

You are welcome, House plans / Jaemin Shin

This housing project aims to bring about community interaction by encouraging relationships between individuals living in Cheetham Hill, consisting of two houses and a public kitchen building.

Atelier 1

1:1 threshold section

Actual scale - 1:5

Flexible interior space allowing rooms to be used for work, play or anything the user sees fit

Raised garden creating privacy for residents away from more public walkway space

Semi private walkway space for residents to travel between houses at above ground level

Garage space, no living spaces that can be used to work in, storage or anything that a user needs

Discreet, hidden spaces for relaxation and socialising

People - Young adults, children, young families

Place - Centre of Cheetham Hill in between the busy Cheetham Hill High Road and the quieter suburban surroundings

Issue - A lack of housing to live in resulting in high numbers living with their parents late into their late 20s. Also a lack of work and social spaces for the same young people in Cheetham and the surrounding areas.

Solution - Create high density housing and flats units with flexible spaces integrated into these houses so that the people can shape the space to their needs. Whilst also having a green central space on site create an enclosed community social environment for residents and non - residents.

0.5   1   2   3

Building Zone Guide

- Young Offenders Accomodation
- Culinary Training Facilities
- Restaurant and Bar
- Library and Learning Spaces
- Reception and Information
- Courtyard Spaces

Future Flexibility, 1:1 For the love of detail / Freddie Bosson

Aiming to encapsulate and create community style and shared living stemming from the modern phenomena that is gentrification. This project aims to attract young people and businesses to Cheetham Hill in an effort to generate vibrancy and commerce where gentrification has been known to disrupt and sometimes destroy community cohesion.

Cheetham Culinary Culture, Building Zone Guide / Julia Smith

Behind the Facade of the Old Cheetham Hill Library sits the epicentre of the community. A Restaurant and Culinary training facility enables all members of the community to come together through food, sharing and enjoying each others knowledge whilst learning new skills. It is a place where offenders can work to complete their community service and also train and gain qualifications as an alternative to a prison sentence

Re:generation, Courtyard House / Meriel Serlin

A cohousing scheme for families of different cultures and ethnicities in Cheetham Hill. The idea is that the layout of houses and communal elements such as a dining hall, living area, and garden all encourage social interaction between the residents.

The Kansas Buildings, Site axonometric / Matt Jones

Following the detrimental effects of global chains in UK towns, this scheme has been designed with a sensitivity to local scale and context. A residential and retail scheme will be integrated on the high street rather than imposed, in the form of two mirroring buildings.
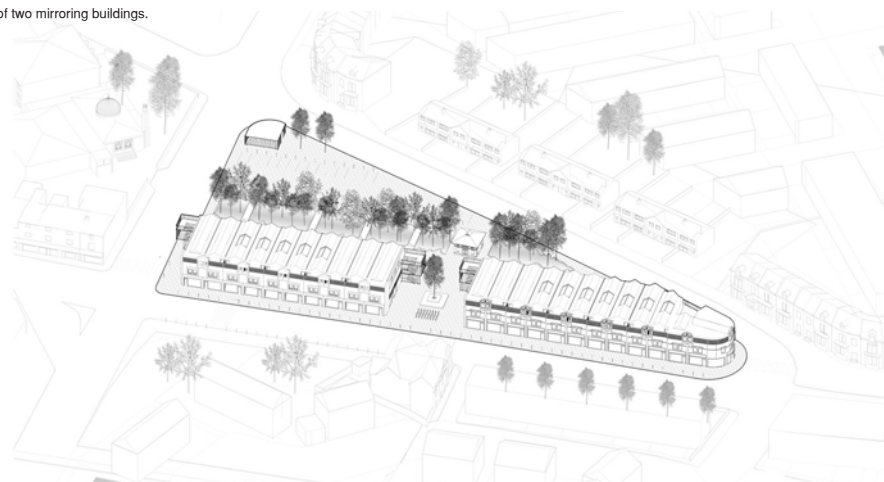
Cheetham Hill Skills Exchange / Zuzanna Godek

The housing scheme is dedicated to a social group often facing financial, educational and housing problems - people employed in low-skilled occupations. Lack of long-term flexibility in housing in the area is addressed by introducing transient buildings that allow for future, self-built expansion. An additional aspect of the project is a public space for mobile, learning pods designed for skills exchange, which creates opportunities for community cohesion and users' personal development.

Atelier 1

Common Ground

Stephen Connah, Ronan Connelly.

"Man is by nature a social animal; (...) Society is something that precedes the individual. Anyone who either cannot lead the common life or is so self-sufficient as not to need to, and therefore does not partake of society, is either a beast or a god." (1253a1) Aristotle, Politics.

In his essay 'The Open City' Richard Sennett argues that since the mid C20, design in and of the modern city has lost its critical imagination and vitality. He points a finger at the over-determination of both the city's social functions and visual forms by planners and architects. "What is missing in modern urbanism is a sense of time - not time looking backwards nostalgically but forward-looking time: the city understood as process, its imagery changing through use, an urban imagination image formed by anticipation, welcoming surprise."

Working iteratively in both diagram and the 'physical' model students worked from within an analytic typological method to develop their own design intent. Typology, architecture's native reasoning system, acknowledges that within certain building forms and city morphologies there are organisational structures, that are able to transcend programme and original use - revealed in its purest abstract form via the reductive diagram. These diagrams were adapted and applied to generate new architectural morphologies, as the students developed an understanding of the dialectic between type as 'idea' and type as 'rule' for the model. Methods developed by J.N.L.Durand and Quatremere de Quincy, though differing in emphasis, were key skills engendered within the emerging design process linking the study of the city and its building to the theme of city as 'process'.

The role of abstraction coupled with the idea of the 'architect as maker' is an essential aspect of the atelier. Acting as generator of the emerging project students formed an object/detail/fragment seeking to express the character of material presence beyond the representational or the purely visual. By making and thinking about materials the students were able to narrow the gap between the realms of the abstract to that of the concrete. We believe that architecture is better considered through reconciliation between these two realms - the freedom of abstract reasoning vis-a-vis the 'architect as maker'.

City and territory: Manchester city centre - central west side from Deansgate to the River Irwell.

Common Ground students 2014-15:
M.A.Almusleh, J.Balrajan, I.A.Calin, N.Chizhikov, K.Dapsyte, H.Dobrev, S.Hammond, J.Hines, V.R.Kuneva, M.N.Marinova, P.Matejczuk, D.E.Mclean, A.Neumiarzhytskaya, S.W.Ng, R.Parkinson, R.K.Pazaitov, S.Sen, J.A.Siaw, M.N.Stoyanova, C.Templeman, K.Tysklind

'A little city square inside an urban block is embraced by two structures that are staring at each other across a narrow gap. The Reading House and the Publishing House: each embodies what is an opposite of the other. Completing and contrasting each other, they are conceptually linked by books but diverging in everything else.'

Atelier 2
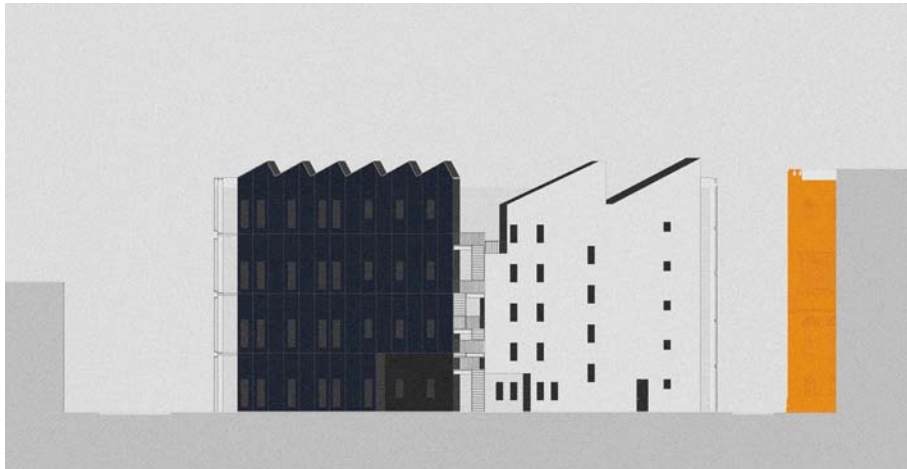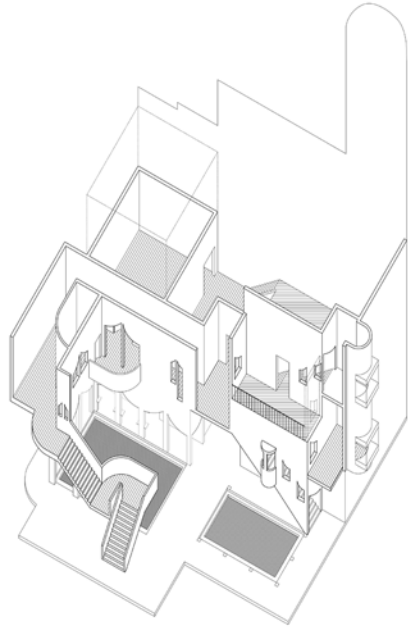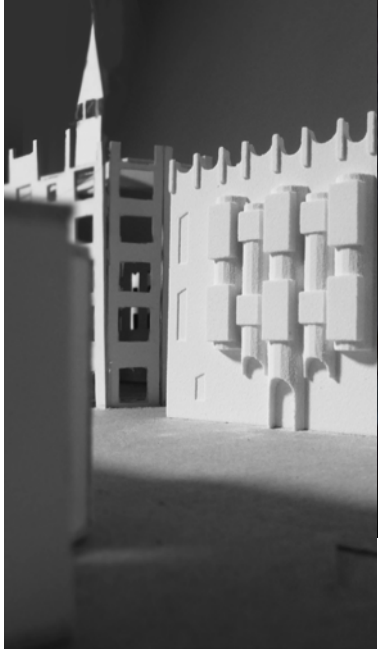
Street as a Theatre of the City / Rostislav Pazaitov

'... The loggia obove the porticoes is a structure where members (...) could participate in the life of the piazza while remaining a floor above the population.'
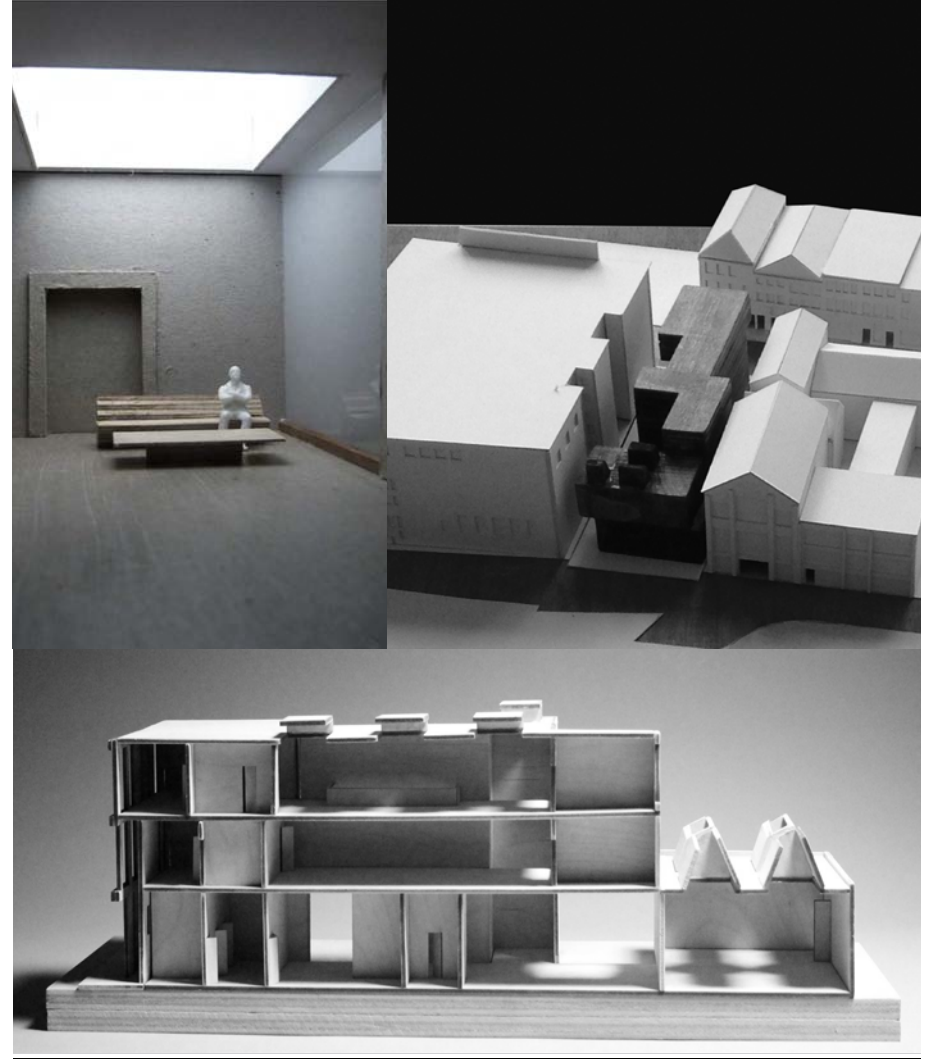
A Centre for Poverty Relief / Daniel Mclean

'... The building's primary objective will be to offer support, education, health and finance. The primary beliefs of the project will then have a snowball effect resulting in there being a greater outreach of the building which will provide secondary and tertiary responses.'

Atelier 2

The Cycling Forum / Sarah Hammond

'Urban cycling can be a solution to social, economical and environmental problems in our cities. By creating free mobility of pedestrians and cyclists we can generate social vitality in the 21st century city. The cycling forum is a project central to the expanding network of cycling facilities in Manchester as part of the VoloCity initiative.'
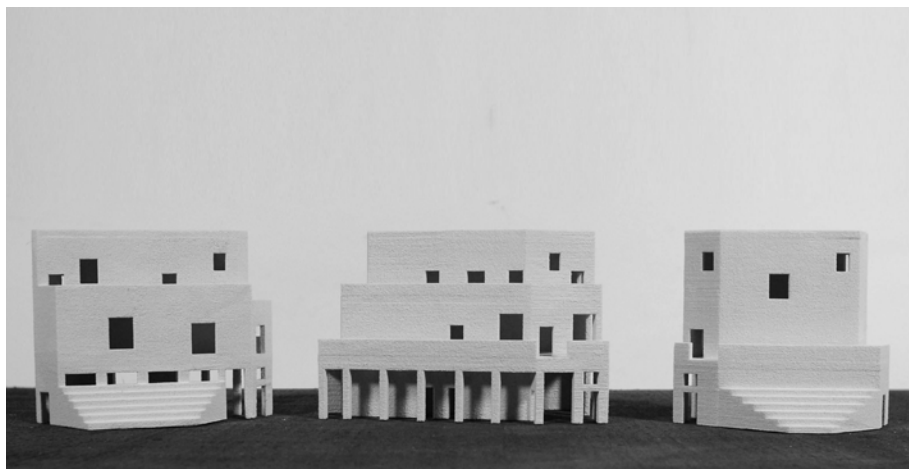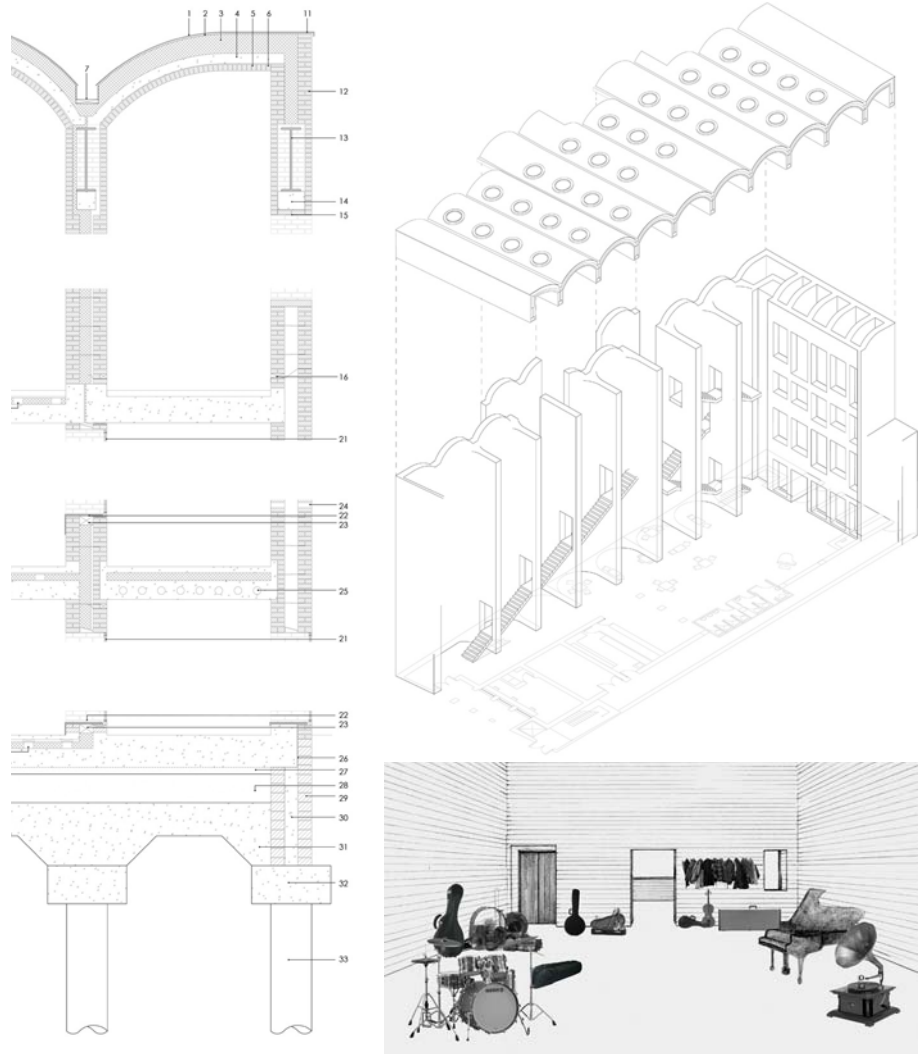
Chorus / Rebekah Parkinson

'Arising from research into mental health and the city, Chorus Music Therapy Centre is a building which demands material and architectural honesty and care. The load bearing brick structure which runs throughout helps maintain the theme of inversion by creating a series of poche spaces within the massive structure.'
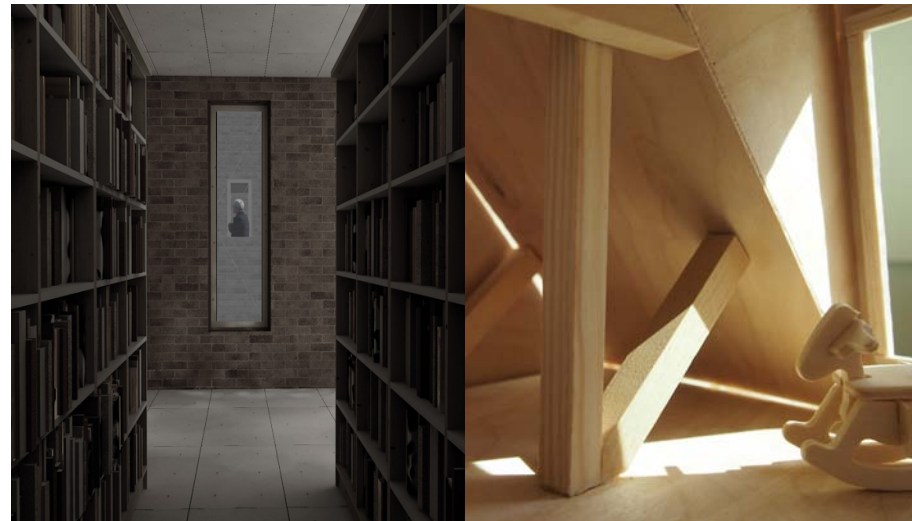
Top Left: Tempus Library / Ioana Calin
Top Right: Kinder Garden Mission / Vyara Kuneva
Bottom Left: Cooking School / Hristo Dobrev Sci-
Bottom Right: Gallery / Mashael Almusleh

Atelier 2
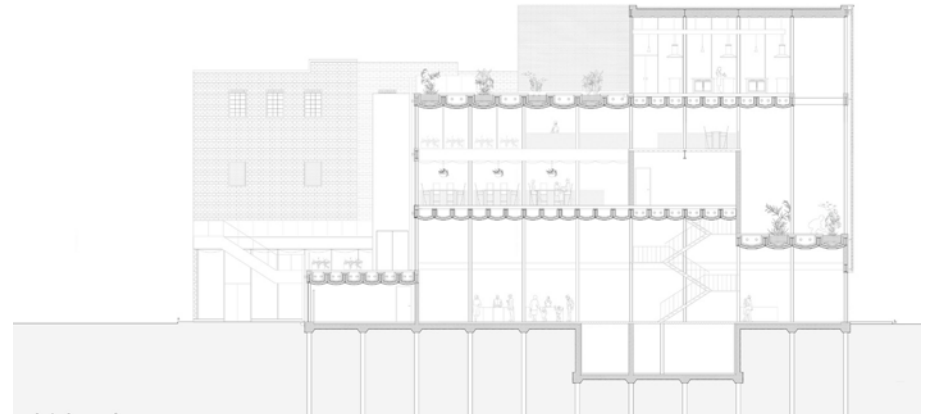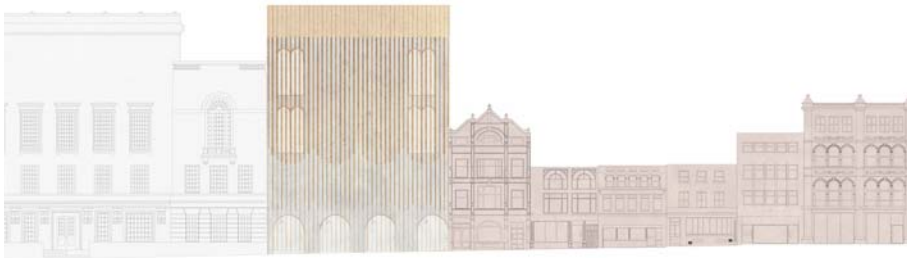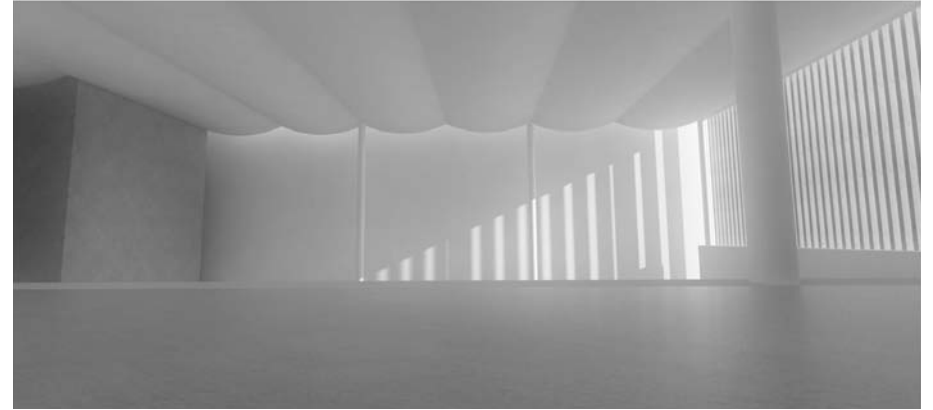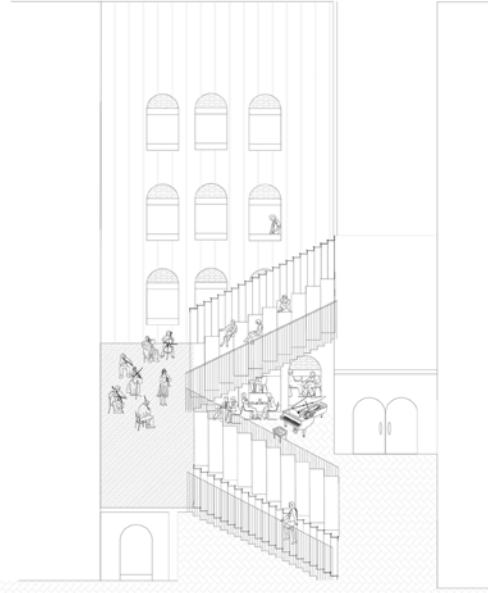
Instrumental / Martina Stoyanova

'Instruments being broken, instruments being repaired, instruments being played, instruments being taken and instruments returned.
Strings broken, chain saws cutting, wrong note played, wood being filed, applause.
Instrumental is not only a place for musical instruments. The building itself is an instrument for people - to bring them together and to serve back to the city... It is about light, about memory, about eminence.'

The Vertical Garden / Karissa Tysklind

'The scheme consists of a community urban garden where the people of the city can grow, sell and cook food to encourage social interaction and community engagement. It includes planting spaces, a market hall, dinning spaces and a kitchen workshop.'

Intelligent Assemblies

Laura Coucill, Matt Pilling.

'We can not regulate our interaction with any aspect of reality that our model of reality does not include because we cannot by definition be conscious of it.'
(Stafford Beer, 1981)

Intelligent Assemblies views the city as a dynamic system. We are interested in scale and function. We examine political, social and cultural processes and we tackle the unpredictable consequences of climate change within this context. We consider the analysis and understanding of these things as the lynchpin for architectural and urban intervention.

As an atelier we embrace the digital and the analog, and synthesize craft and technology. Particular emphasis is placed on assembly, disassembly and reassembly as an approach to testing and developing adaptable and responsive architecture. We have fabricated models and working full-scale prototypes to test our ideas and in doing this we have developed skills and techniques in making which have advanced our conceptions of architecture and its delivery.

This year, we have focussed on the context of Stockport; a post-industrial suburb of Manchester situated at the confluence of the Goyt and Tame rivers. During the industrial revolution, Stockport was one of the prototype textile towns. As such, it has an industrial and manufacturing heritage as well as a rich history of power and control. We engage with this to reinterpret the architectural and urban landscape with a view to address 21st century issues of climate change. This context, combined with our design methodology and approach, we have explored architecture at micro and macro scales and produced multi-productive and multi-functional projects.

Intelligent Assemblies students 2014-15:
Lamiaa Abouelala, Peter Bell, Raden Bin R Norazari, Finbar Charleson, Thomas Fantom, Edana Gough, Chris Hatter, Amy Hewes, Anthony Ip, Ashfin Khalife, Jason Lloyd, Ryan McKeown
Nur Salamah Mohammed Salleh, Athirah Mohamed Hami
Shawn Muraya, Russell Pollard, Marius Popa, Beth Popplewell, Thomas Smith, Jimmy Tin, Ken Tsui, David Williams.

Stockport Community Gallery /
Raden M N Norazari

As major cities are flooded from the effect of increasing sea level due to rapid global warming, large populations move to low-risk flood cities such as Stockport. Stockport Community Gallery aims to contribute to community building in areas suffering from sudden influx of population; blurring the barriers within the mixed communities. Based on modular construction to maximise adaptability, a large canopy provides shade in the hot environment. An automated photovoltaic panel system is integrated within the canopy to offer a sustainable energy source.

Opposite page:
The Reconciling Respite / Anthony Ip

The Reconciling Respite is set in the context of extreme precipitation where the world is shattered by floods and disasters. In this extreme context, reduced sunlight, leads to significant rises in Seasonal Affective Disorder. As a result, the building is designed to maximise natural lighting in addition to offering relaxing spaces to relieve increasing levels of stress.
In order to withstand the extreme weather conditions, the project sits above flood level and incorporates a green roof. Integrated storage and filter systems re-utilise flood water.

Waste Water Works / Finbar Charleson

Imagining a new typology of waste water treatment in Stockport. Millions of tiny creatures cleanse the excrement of 18,000 people through the use of emerging biotechnology. Treatment tanks fluctuate with the influent level, whilst plants indicate the type of pathogens therein.

Unlike most energy infrastructure, central to WWW is the notion of public engagement, as people are free to wander the botanical gardens cleansing their waste. Hard and soft engineering interventions ensure a relationship between man and machine is negotiated for the betterment of the natural environment. The industrial heritage of the town is recognized as the project aims to bring our ageing infrastructure into an uncertain age of climate change, with optimism and hope .

Digital analysis is supported by analogue developments in drawing and making, as the project pursues a synthesis of gestures of both poetry and performance.
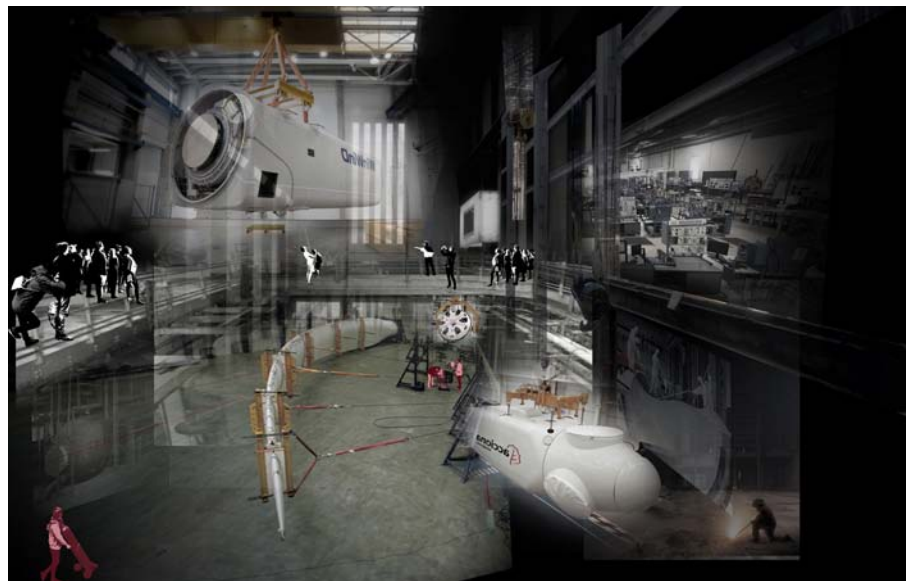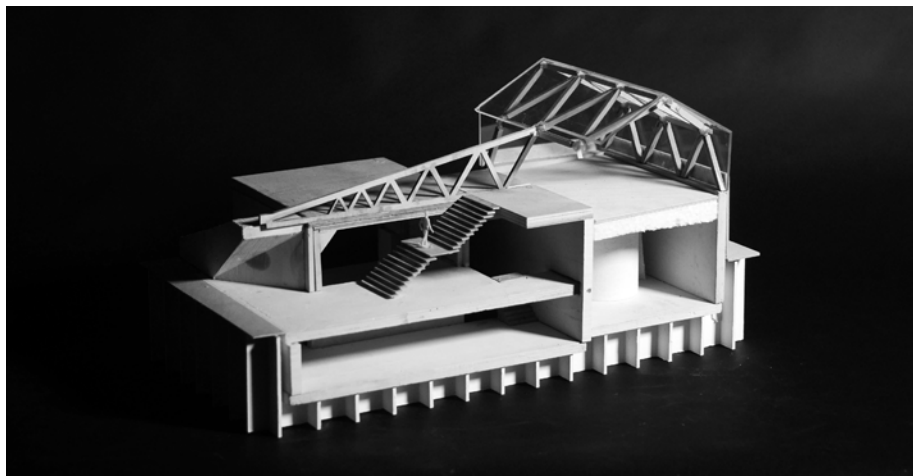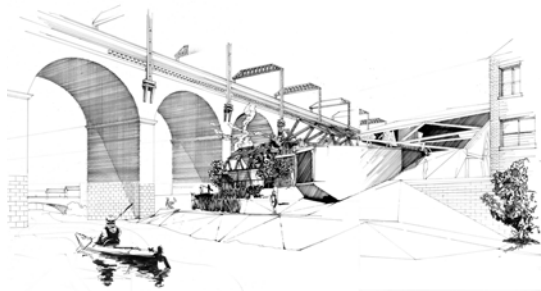
Stockport Ventus Viso / Amy Hewes

Plunging Stockport into a nuclear winter results in a desperate need for renewable energy sources. Ventus Viso advances the technology behind converting energy from the high velocity prevailing winds, which circulate over the undulating topography of Stockport, into usable energy. A cavernous Wind Hall enables the researchers to experiment on full scale turbine components and the 84m tall turbine with a connecting viewpoint engages the community and enables them to experience and understand their role in the Energy Powerscape.

The Forgotten River
Stockport Academy of Music and Culture /
Ash Khalife

Global Warming! Extreme hot climate! Change in social activities! The aim of the project is to transfer the edge of River Mersey from a soul-less edge into an 'active edge'. One in which the people will enjoy. Music, being an international language, gives reason for my programme to focus on activities related to music and culture; in the hope to engage people from different backgrounds.

The building itself is designed to meet the criteria for the current climate as well as the extreme hot climate in the future. An example of this would be placing mass concrete walls in the south facade. Another would be creating a micro climate by bringing water on site and placing trees to create shadow (passive cooling system). Natural ventilation is the main strategy in the building for integrating passive cooling.

EDMA Research Center /
Lamiaa Abouelala

The Education for Micro-Algae Research Centre aims to promote possibilities for reducing, if not eradicating, air pollution through the use of new technologies using micro-algae. The idea is to use the landscape as means of luring people through this maze of ponds to further enhance their awareness for air pollution. This experiential journey guides them towards the EDMA Center where several educational services are available to enrich their knowledge on micro-algae and the role it plays in their present and future. This is further strengthened through the direct visual to the Woodbank mills across the street. The combination of the landscape and the building itself serve as a safe haven against the extreme pollution surrounding it; hence acts as a temple for ground breaking research solutions for CO_2 emissions.

Atelier 3

In the year 2025, the entire planet will be submerged into a nuclear winter. The average temperature in the UK could plummet to as low as -5 C. The increased requirement for energy will lead to a rise in the cost of utilities.

The program of the site aims to provide a number of typologies of accommodation (for single occupants, couples and families who have been forced into fuel poverty) within the vicinity of the historically significant Stockport Union Workhouse. The Workhouse building will be re-appropriated with the intention of erasing the sinister perceptions associated with Workhouses from the Georgian era.
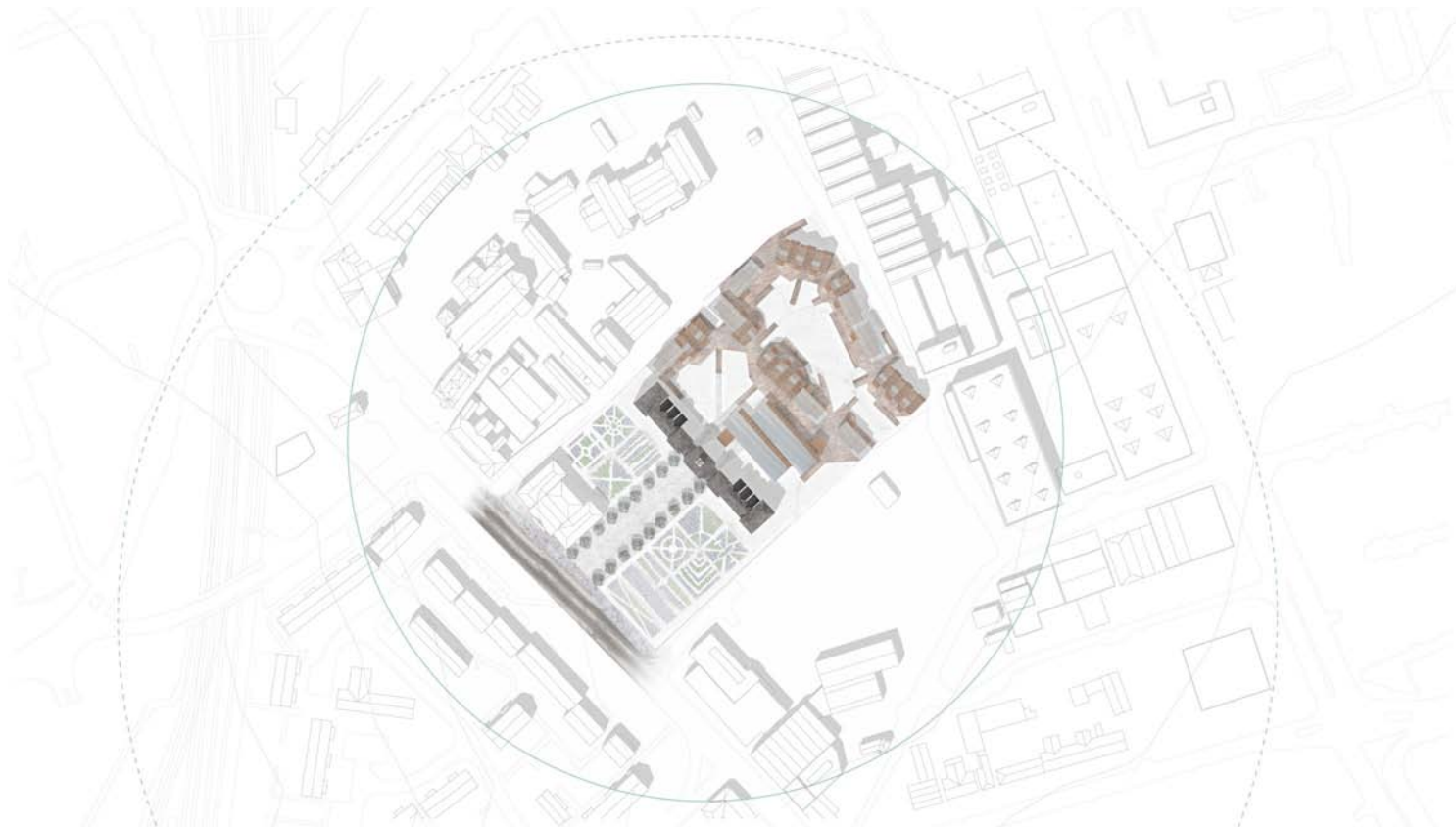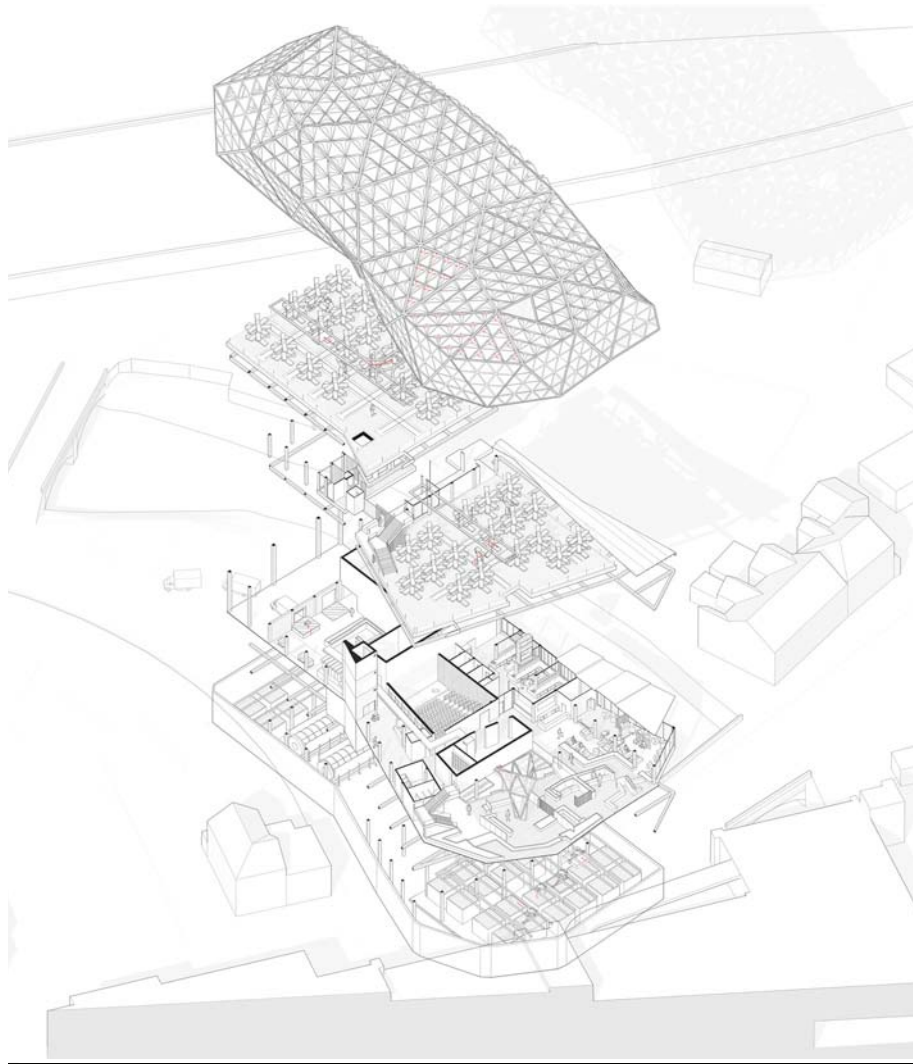
Stockport Aquaponic Vegetable Farm / Peter Bell

In the year 2050, the UK is being battered by extreme storms which are destroying crops and causing strain on feeding an ever growing population. Stockport's vegetable farm is part of wider master plan localising food production to individual cities. An aquaponic system grows plants in water baths using fish to provide fertiliser. The upper floors and packaging area allow for the production of the vegetables using conveyors and robotic arms to move produce and maximise productivity.
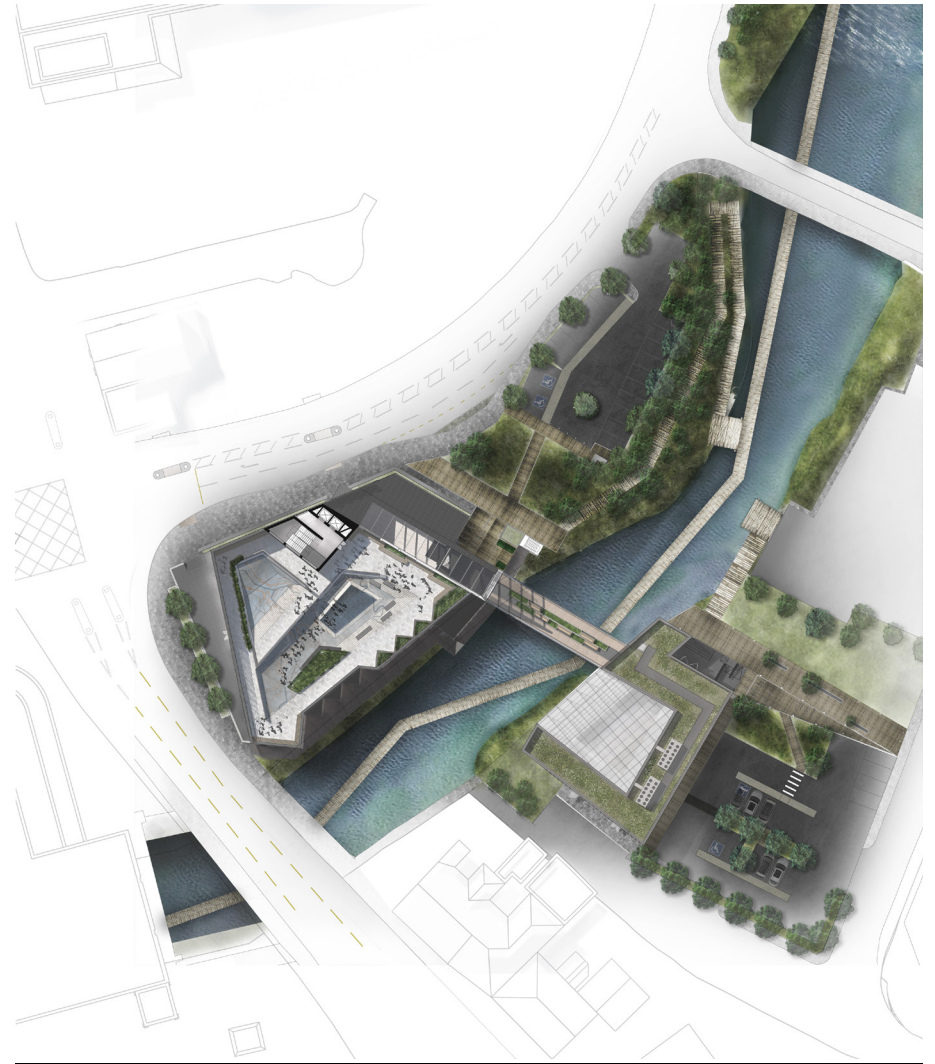
Stockport Bioremediation Centre / Christopher James Hatter

Three rivers serving as the fulcrum of Stockport's development and progression through history. However, in the years toward 2050, predicted climate change sees an increase of precipitation which reduces river water quality. In this project, the practice of soft engineering using bioremediation amalgamates multiple programs and users: drawing in professionals and volunteers to set in action processes which combine the celebration and education of remediation strategies.

Atelier 3

Feeding the Future: Subteranean Aquaponic Farming / Marius Popa

Feeding The Future creates possibilities for the newly re-located council estates to feed themselves within the rapidly growing, socially divided society of Stockport. The humidity triggered facade system and surrounding context responds to extreme precipitation by collecting and retaining rainwater, which is subsequently filtered, acting as a potable source. The prefabricated building is constructed around modular flats, which are connected through high-speed lifts to the underground farm. The principle of FTF is to create a semi-closed system where the residents live above ground and generate their food below, in a stable climate. Sunlight is directed into the inverted prism (farm) through a 30m high atrium penetrating the centre of the building. The farm has 2 purposes within the scheme: to create food with as little energy and residue possible (aquaponic farming), while the upturned glass prism acts as a natural heater for the air gathered through earthtubes in near proximity to the edifice.

Coexistence ... in Theory

George Epolito, Dan Farshi, Maryam Osman.

The Coexistence ... in Theory Atelier celebrates the fictitious realm. Projects reflect creative problem solving with regards to the physical and metaphysical qualities associated with urban ruins/artefacts, time, and memory. Students were to reconcile Manchester's history, the palimpsest of meanings associated with it, and the future of the city by having to investigate a territory loosely defined as (Defunct) Systems of Movement as Non-Places: Mancunian Way/Elevated Cars | Viaducts/Elevated Rail Lines | Canals/Excavated Ground. Solving problems in the more immediate future [the main concern of the profession] was not of primary concern to us; we focussed our efforts instead on visions of near and distant futures.

Our aim as educators was to utilise theory as a means of engaging and motivating students to question boundaries, both physical and intellectual. We sought to provide an intellectual infrastructure into which students could plug their theoretical interests as they addressed the polemical issues found within the physical boundaries of the territory. Essays were assigned in order to provoke debate within the Atelier and within the smaller Agenda Groups. Initially we were interested in in contextualising theoretical debates of place versus placelessness, local versus global, etc. set within the scales of the territory, the city, and beyond.

The resulting discourses prompted individuals to further their personal theoretical ambitions through self-directed investigations informed by external sources such as cinema, literature, etc. We purposely encouraged students to pose rhetorical arguments set within a Dialectic form of Logic as a counter to the empirically based arguments to which they had grown accustom in their prior studio experiences.

In relying on the rhetorical as an investigative tool, we realised that we were running the risk that theory could serve as a cerebral crutch for students who preferred avoiding problem solving. We prevented this situation by setting up a pedagogical Dialectic where theory [thesis] was counteracted by experimental exercises in constructing [antithesis]. This challenged convention, whilst constructing tectonic connections and metaphysical photomontages/collages representing ideas grounded in the human condition. This explored ways of synthesising theoretical interests and tectonic constructs with human inhabitation, programmatic necessity and climatic constraints.

A process of bouncing backwards and forwards between various scales and modes of operation throughout the year, enabled students to transform provocative propositions into unconventional works of architecture. This rigorous process of tactile and visual experimentation yielded student projects which demonstrated ability to challenge intellectual boundaries, to employ an expanding skill set, and to reconcile rhetorical propositions with the complicated palimpsest of meanings contained within a territory - a coexistence ... in theory .

Coexistense in Theory students 2014-15:
Charlotte Clarke, Sian Ellis Wright, Anabel Garcia-Kurland, Muhammad Haseef Bin Muhammad Rafiei, Poorvi Gupta, Benjamin Hodder, Karan Gandhi, Erika Mikulionyte, Lowell James Clarke, Chendu Zhou, Katherine Rebecca Kann, Charlotte Mercan, Ryan Millar, Frederika Fraser, Gina Kirby, Pascal Robin Loschetter, Roxana Antistescu, Vicente Fuster, Siva Shankeran Rajendran, Georgia-Spyridoula Erotokritou, Wenxin Cobos Cao, David Park, Nada Abdullah S Azzaz, Jane Ching Yee Ling, Stuart Littlewood, Louis Douglas Henri Speelmans, Julija Pivovarenok, Nurul Nadhrah Binti Zainal, Marina Skarpeti, Leonie Millington, Iana Rachel Blumberg, Viktor Antoan Petkov, Matthew Stockton, Anita Olaye-Felix

The Embroidered Mind / Gina Kirby

A labyrinth where every chance encountered with a word, a picture, a building, or a person seethes with legend and possibility, opening into a secret utopia accessible to anyone capable of recognising it.'
Sadler 1998.

IN THE GROUND FLOOR TOILETS THEY HAD THEIR OWN GUYS DEALING DRUGS AS THEY CAME DOWN A VENTILATION SHAFT FROM THE EVIDENCE ROOM

Shutters section off club from building

Club Entrance   Smoking Area
Lounge
Toilets   Bar
Club Ground Floor   Club First Floor

THEY OPENED UP A FIRE ESCAPE AS AN ENTRANCE TO THEIR ILLICIT NIGHT CLUB

Needless to say, I was intrigued.

CONSTRUCTION SEQUENCE

Two packets of cigarettes later and my investigation of Manchester's corrupt police station was in full swing...

Our Boys in Blue (Bruises) / Lowell Clarke

The project examines the police force: is there an inherent vice within the institution itself and if so, what would happen if this suppressed aggression and violence was turned inwards? Could a building unlock their unconscious and push them over the edge of the law that they simultaneously defend? Inspired by geo-ideological representation of non-places and heterotopias in works such as Lynch's Blue Velvet, Palahniuk's Fight Club and Ballard's High Rise, a Police Station that led a double life of law and chaos.

Atelier 4

Synthesis inCARnation / Pascal Loschetter

Branching from Mancunian Way, a vehicle ramp winds upwards around the factory, allowing people to drive and drop off their cars to be processed. They can then enter the building and follow their car's journey, as it is depolluted, dismantled, and finally the empty chassis is crushed.

The scheme proposes to deal with redundant petrol cars in a way that minimises waste, by recovering all the materials extracted from the vehicle. The cars are disassembled, and each part is broken down. Each material is then processed, and transported to specific recycling facilities.
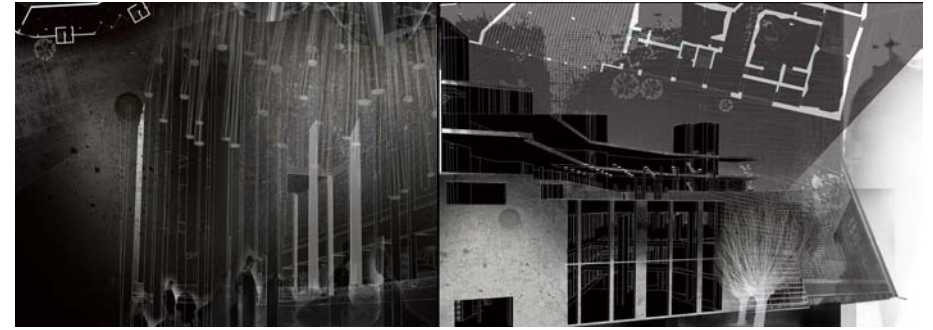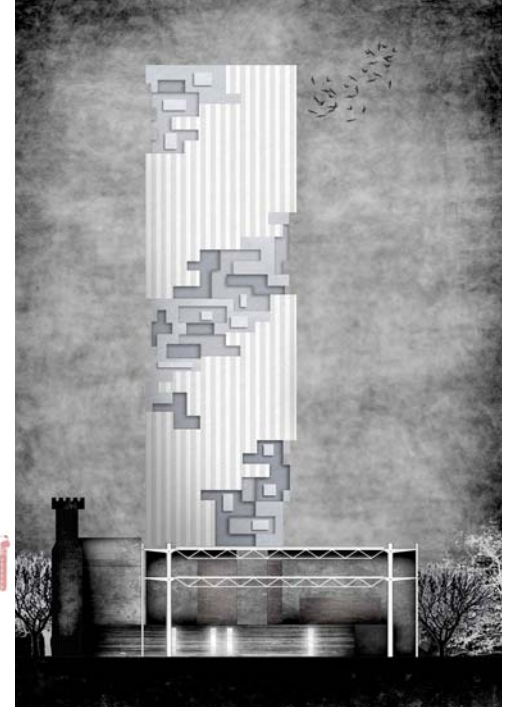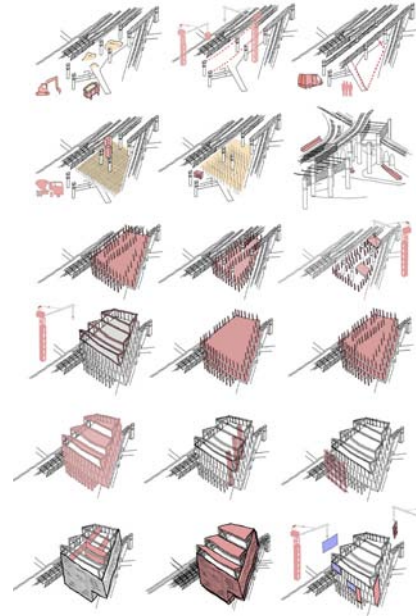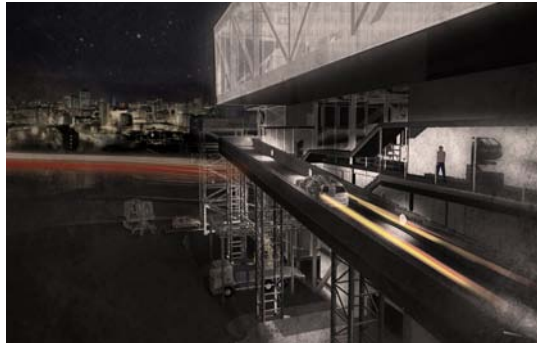
Top Left: Homeless Shelter / Leonie Millington
A homeless shelter that resides underneath the infrastructure of Castlefield, Imitates some of there aesthetic and structural properties, providing initial advice and support, emergency shelter, houses existing homeless facilities in Manchester and an additional occupiable structure that houses SIP panel shelters for more independent living.

Top Right: Youkea / Charlotte Mercan
Bottom Left: Youkea / Sonic Mark Bottom Right: Youkea / Marina Skarpeti

Atelier 4

The Great Manchester
Spice Factory / Siva Shankeran

'The Great Manchester Spice Factory, is a project that deals with the dialectic between the phenomena of a 'Place' and 'Non-Place', looking to the future where crude oil is scarce and communities of people have to live closer to resources such as food, medicine, clothing and learning the process of harvesting and processing spices for various uses.'
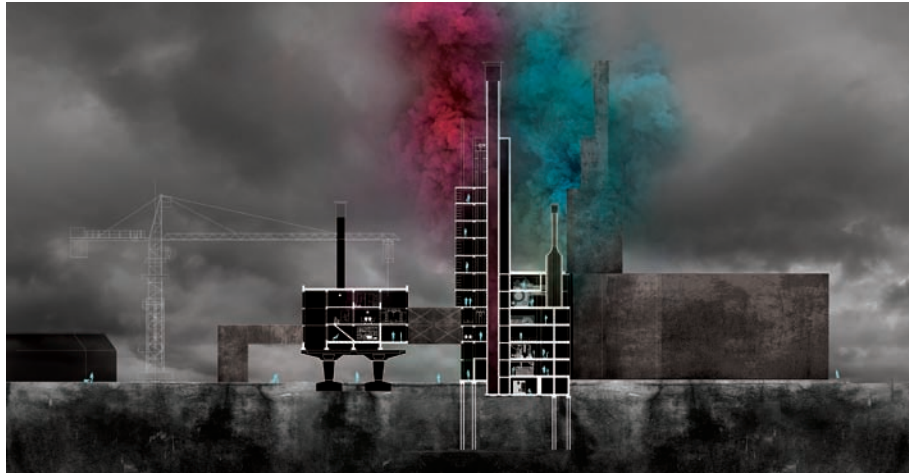
Alzheimers and Childrens Daycare Centre
/ Nada Azzaz
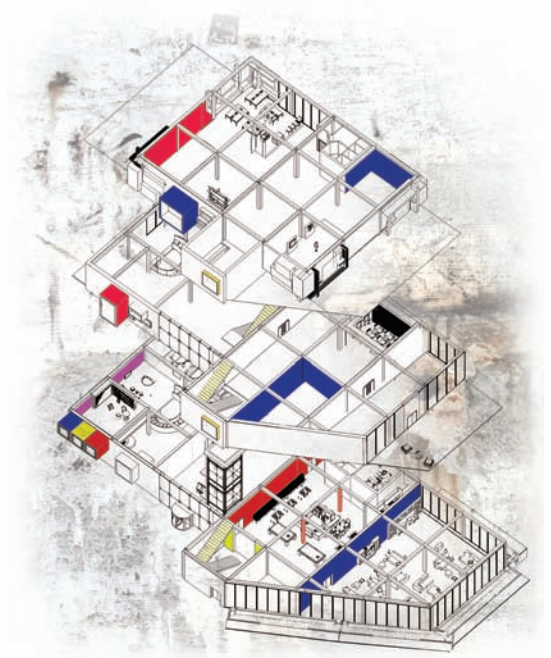
Banana Plantation / Ilana Blumberg

Atelier 4

The Hut Factory /
Muhammad Haseef Rafiei

Based on a dystopian future in which the population relies on the manufacturing of huts, the Hut Factory explores the dialectic between the formal and informal through the reap-properiation of spaces.
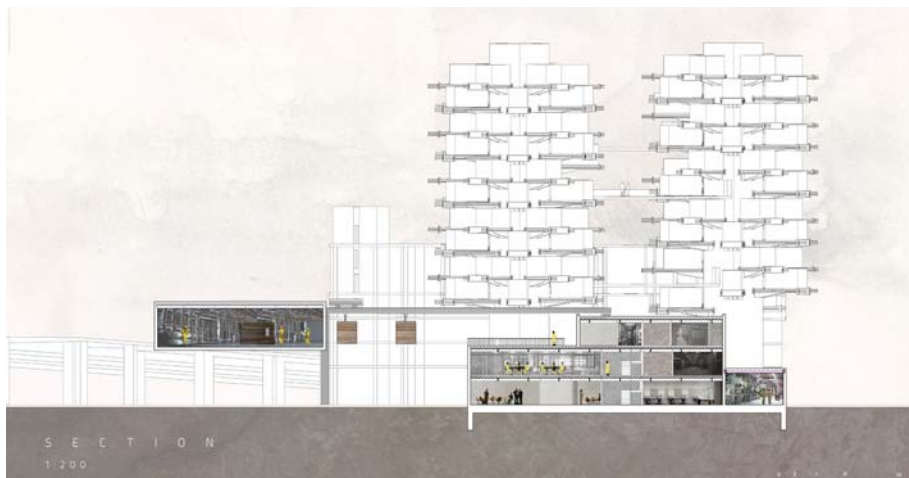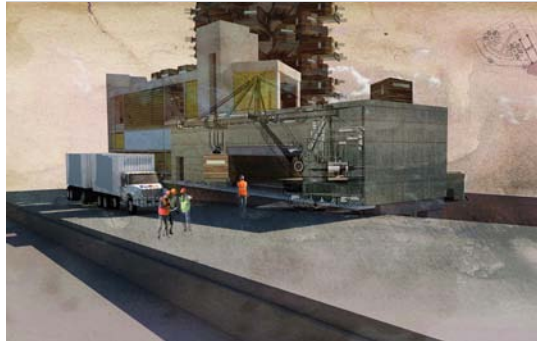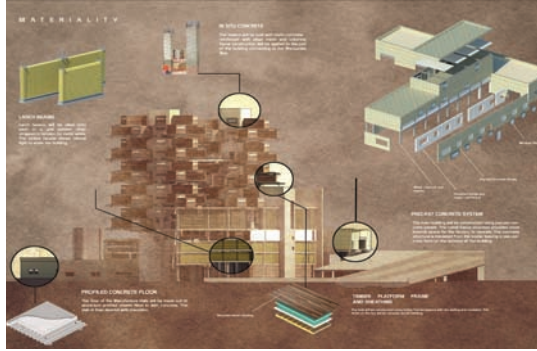
Rowing Quays / Vicente Fuster

A New Way to Improve Your Health in Manchester...
The project looks at an urban balance between green spaces, infrastructures and inhabitants, synthesising living, working and leisure, and looking for the perfect balance.
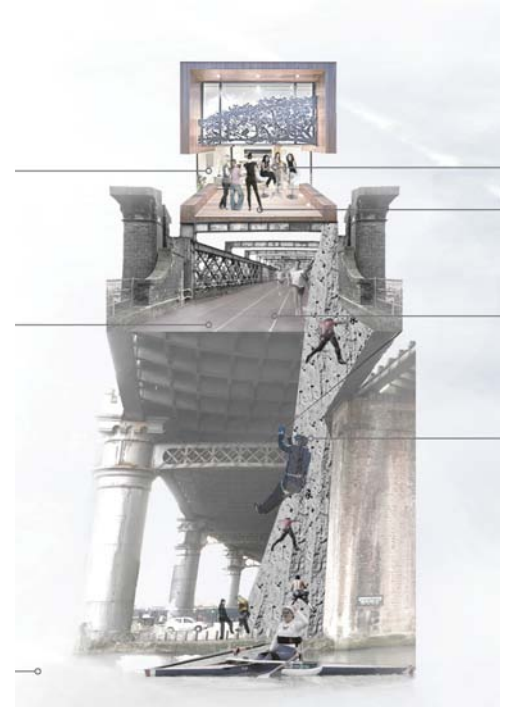
PoPsm / Viktor Petkov

A small-business incubator expressed through the mentality of the pop-up retail sector and, by an extent, a socio-urban programme integrator.
'Cities have the capability of providing something for everybody, only because, and only when, they are created by everybody.'
Jane Jacobs

Atelier 4

Top: Urban Retreat / Anabel Garcia-Kurland
Bottom:
Repercetion: A Sensory Centre for the Visually Impaired / Anita Olaye-Felix

Opposite Page:
Top: Crime City / Jane Ling
Middle: Mancunian Way Non-Place Montage / Charlotte Clark
Bottom: The Laws of Deception / David Park
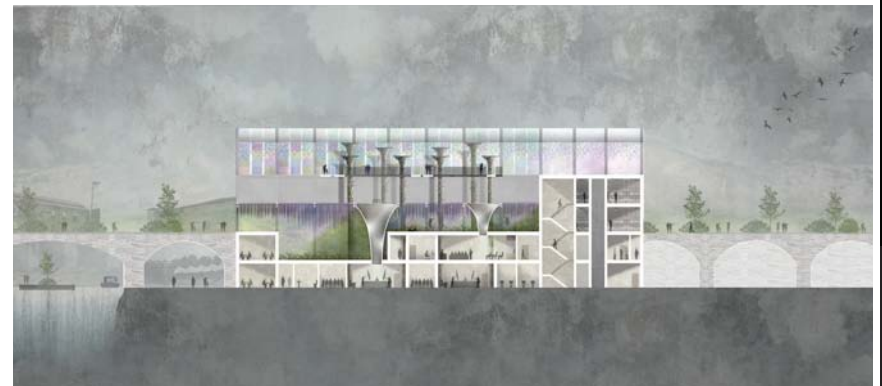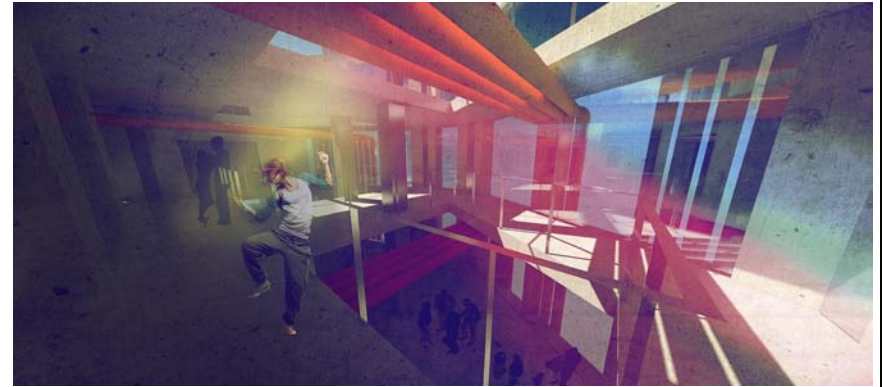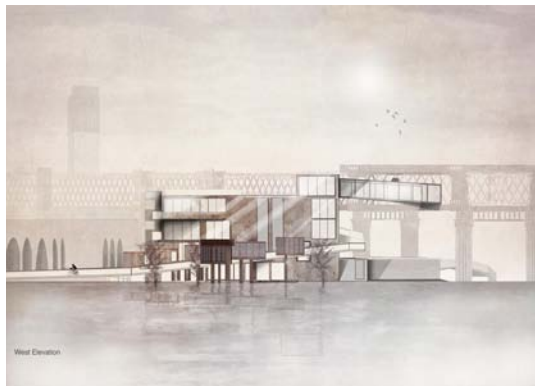
Urban Farm / Louis Speelmans

A cross programme scheme that incorporates an urban farm with a family residence as a heterotopia, which transitions between place and non place in the public's perception, stimulated by a future scenario of a major economic crisis resulting in wide spread food shortage.

iChurch / Frederika Fraser

The project represents the concept of technology triumphing over religion. The project focused on looking at a way to unite the formalists and the informalists of the regime, the role of religion and the church and how to synchronize beliefs.
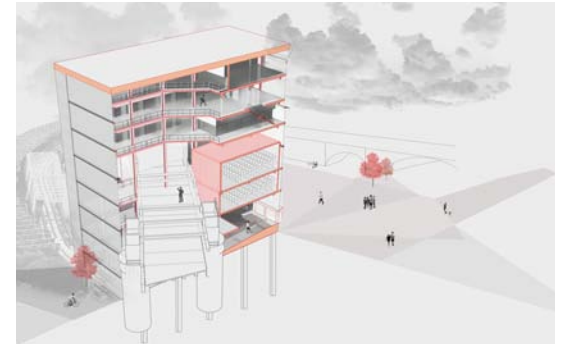
Virtual Heterotopia / Erika Mikulionyte

The key objective of the project was to create a scheme that is defined by heterotopic qualities. This is also done programmatically by creating cinema, simulators, gaming and virtual reality facilities allowing the users to experience physical and virtual realms simultaneously.

Atelier 4

Continuity in Architecture

John Lee, Emma Tanti, Mike Daniels.

'We have to emphasise that all places have character, and that character is the basic mode in which the world is 'given'...the character is determined by the material and formal constitution of the place. We must therefore ask: how is the ground on which we walk, how is the sky above our heads, or in general: how are the boundaries which define the place.' 'The Phenomenon of Place', Christian Norberg-Schulz

With more determination than in previous years, the Continuity in Architecture atelier has been engaged in the task of 'feeling' its way to an architectural proposition. The often dead hand of colour-coded map-making has been relegated to a supporting role in the analysis of the urban environment. In its place we worked through a series of 'tasklets' designed to draw out what is noticed, what is there, what is inferred, what is felt. In this, (and with Norberg-Schulz) we have grown to understood the value of the concrete over the abstract for stimulating poetic responses to the character of the place. We have enjoyed the sense of formality in addressing the city with wall and window.

That city is Manchester, and that place is Piccadilly.

In a process of 15 design-led research tasklets, we have been exploring the nature of the disjointed, fallow land of Piccadilly Basin, worked and re-worked by our industrious forbears. In 'A Room with a View', we invited the students to telescope time and space into a single framed interior drawing. In 'An Urban Detai', we captured in 1:10 drawings the informal appropriation of a chunk of the city by its citizens. In 'Electing a Precedent', we mined the great works of architecture for their treatment of space, light and urban continuity. And there were more.

What emerges is work which boldly confronts the city, yet arises from the deep aspects of its character - the sense of place. That boldness is manifest in the materiality: iron cladding, basalt columns, stone rustication, brick four-squareness. And it is present in the programmes developed: a bicycle bank, a boxing club, a radio station, an urban fishery. And it is present in the willingness of all the work to take responsibility for the space beyond the plot in the form of a framework for the area.

Feeling our way to an answer has, we hope, led to answers with feeling. Because that is how architecture connects the past to the future, and creates the continuity we are striving for.

Continuity in Architecture students 2014-15:
Marco Wan, Luke Allbrighton, Oliver Thomas, Janice Po, Courtnay Ives, Cecilia Ferrari, Celia Cooper, Adrian Wong
Krishna Patel, Stephen Morris, Jake Graves, Leticia Rodriguez, Alexandra Sigley, Laura Hall, Matthew Renshaw, James Daubeney, Selma Ayduz, Katerina Marathefti, Cristina Martinez, Kate Wrigley, Alicia Booth, Elena Pardo, Yishuai Gao, Rebecca Brown, Katerina Chaneva, Amelia Denty, Sarah Walcott, Malak Mansour, Nasra Ali, Patricija Paskina, Felix Manibhandu
Jinxia Hu, Carol Kwan, Tom Kirk.

Also with thanks to visiting tutor Phil O'Dwyer, and the technical assistance of Consulting Engineers Ramboll.

Manchester Games Hall /
Matthew Renshaw

The Print Mill / Janice Po
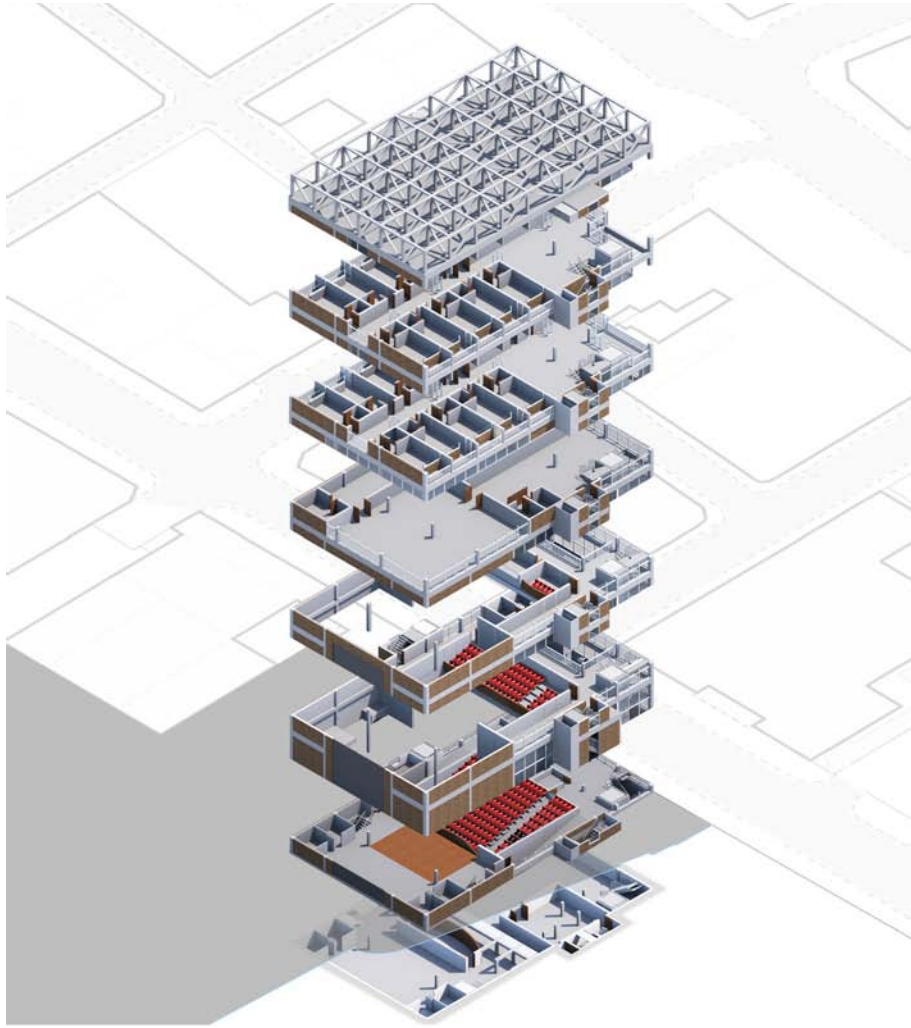
The Piccadilly Theatre / Malak Mansour

"The joint is the beginning of ornament'I recognised that the capital had to hold its volutes out to invite the span. It had to reach out, receive it, and the reaching out had to be bigger than what the column was.'
Louis Kahn (quoted in 'The Architectural Detail', E Ford, 2011)
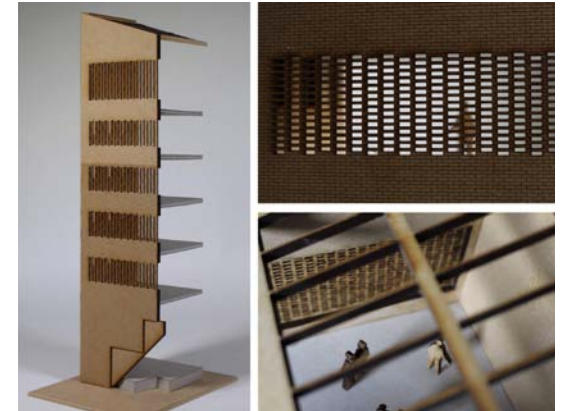
Sit & Fish / Celia Cooper

'Sit & Fish is an independent, unique dining experience on Manchester's Rochdale Canal. Gone are the days of sit down and order - here, you can catch your food before you eat! Our fish are farmed using aquaponics, a future- thinking system where fish and plants are grown together in a symbiotic relationship.'

Atelier 5

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95

-climate material colour light simple living poetics
- amplify existing community based schemes and programmes
- introduce the rochdale canal to the heart of the community, transforming it from a barrier to a meeting point
- increase water quality through diverse vegetation, ultimately creating beneficial, productive, small ecosystems throughout the masterplan and design
- encourage and house the idea of simple living through the use of the local climate and materials for the designs inhabitants and surrounding communities
- allow light and colour poetically influence future design

SERVICE LAY / FEATURE WALL
INTERNAL STUD PLYWOOD WALL
INSULATION
PLASTERBOARD
INTERNAL TIMBER WALL FINISH

LARCH WOOD CLADDING
DAMP PROOF MEMBRANE
HORIZONTAL BATTENS
VERTICAL BATTENS
HARD BOARD INSULATION 130MM
CROSS LAMINATED TIMBER WALL
200MM

TIMBER FLOORING
HARD BOARD INSULATION 25MM
CROSS LAMINATED TIMBER FLOOR
PANEL 200MM

SERVICE VOID
INSULATION
THIN LAYER PLASTERBOARD

ZINC BOX GUTTERING

The Mancunian Film School / Laura Hall

'It is quite ironic that Louis Sullivan ... is not only considered the father of modern architecture but also the evangelist of its gospel 'form follows function'... For both Alberti and Sullivan, ornament is never a trick to avoid horror vacui, but a way to give architectural elements their own singular, finite material appearance... ornament always addresses the wall as an agent that goes beyond its necessity as a partition or structure.

But above all, the wall is a cultural object that directly interferes with our social and political understanding of the city.'

From 'The Thickness of the Facade', Pier Vittorio Aureli (in El Croquis 166 'Caruso St John: Form and Resistance', 2013)

Opposite page:

Top: Rehab Architecture / Cecilia Ferrari
Middle: London Road Hotel / Selma Ayduz
Bottom: Depository of Forgotten Moments / Amelia Denty
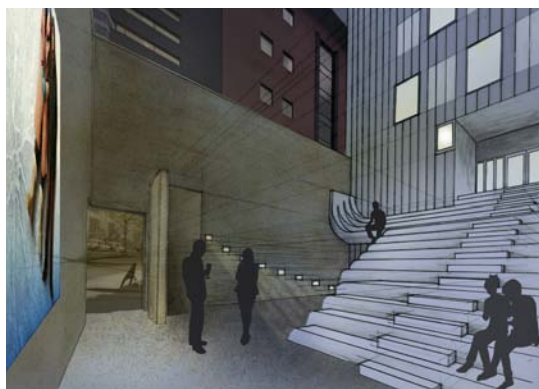
The Leggers Arms /
Rebecca Brown

'From the towns all inns have been driven; from the villages most...
Change your hearts, or you will lose your inns, and you will deserve
to have lost them. But when you have lost your inns, drown your
empty selves - for you will have lost the last of England.

Hilaire Belloc, 'From this and that on inns', 1912
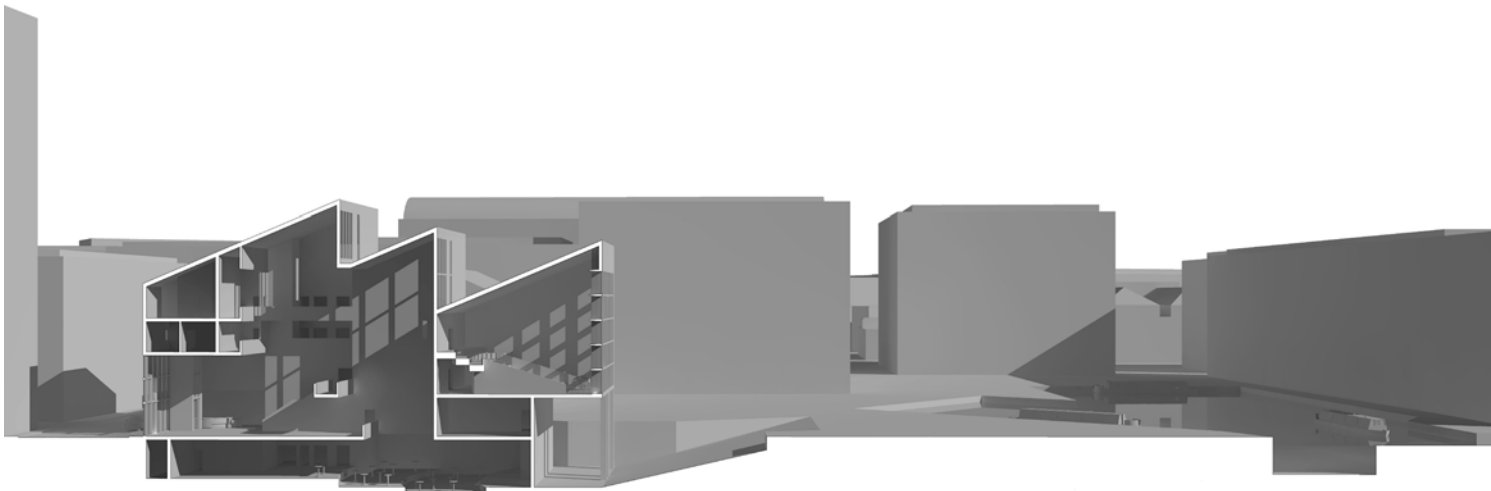
The Manchester Jazz Club /
Stephen Morris

Atelier 5
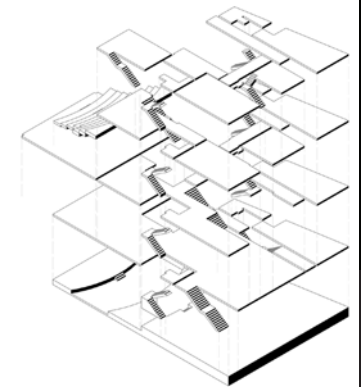
The Boxing Exchange /
Kate Wrigley

'I would like to live in Manchester. The transition between Manchester and death would be unnoticeable'
Mark Twain

'As a species, we are storytellers ... Settlements materialise within a context of stories. Frequently, disregard for the stories of a place provokes community resistance to a project. Moreover, this fabric can be a critical part of the sense of home and belonging.' (Childs)
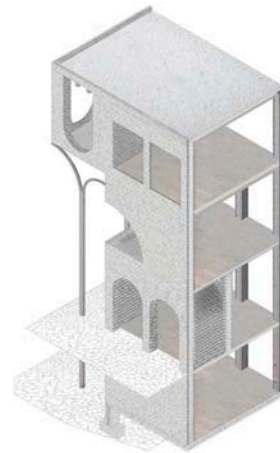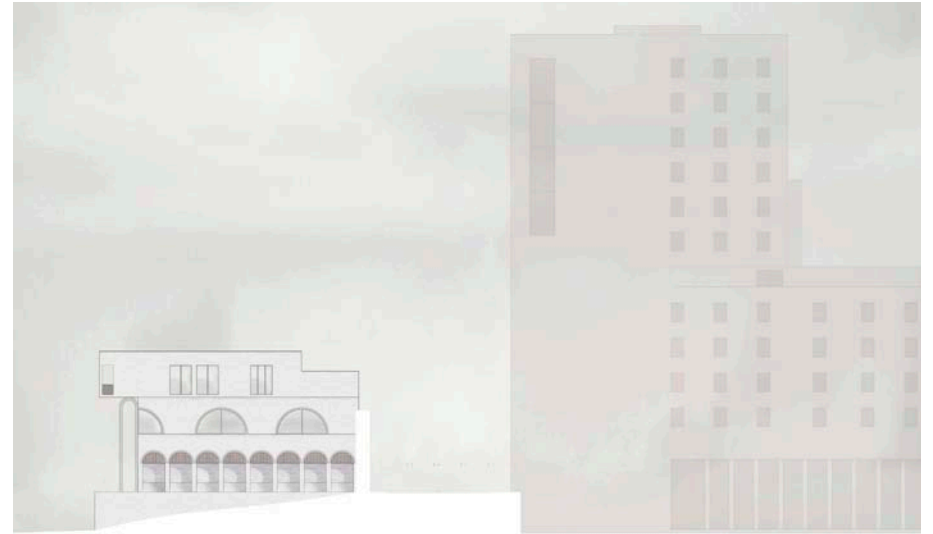
Forum Vitae / Elena Pardo

'Drawing on the conclusions of the agenda, the project aims to develop the public realm in Piccadilly embracing the research themes of memory, movement and nature. The focus of the agenda on proposing a horizontal occupation of public space, through a route that leads to the green lung of Picadilly, echoes in the intent of the programme of providing a vertical occupation in the building. This intent is driven by the journey of the wine experience, from the making, selling and tasting.'

Manchester Youth Hostel /
Felix Manibhandu

Piccadilly Commuter Hotel /
Alexandra Sigley

'The Union Bank building and adjacent plot is located on London Road, Piccadilly, this location informed the commuter aspect of the scheme, due to major transport stations within the area. The programme will offer a range of accommodation for different periods of stay. For short stays, there is a cafe, booths, activity space and workspaces. For overnight stays there will be sleeping pods and shared flats on the upper levels for weekly rentals. Other facilities within the design include hireable meeting rooms, communal lounge and study area, a small shop and a transport info hub located adjacent to the reception.'
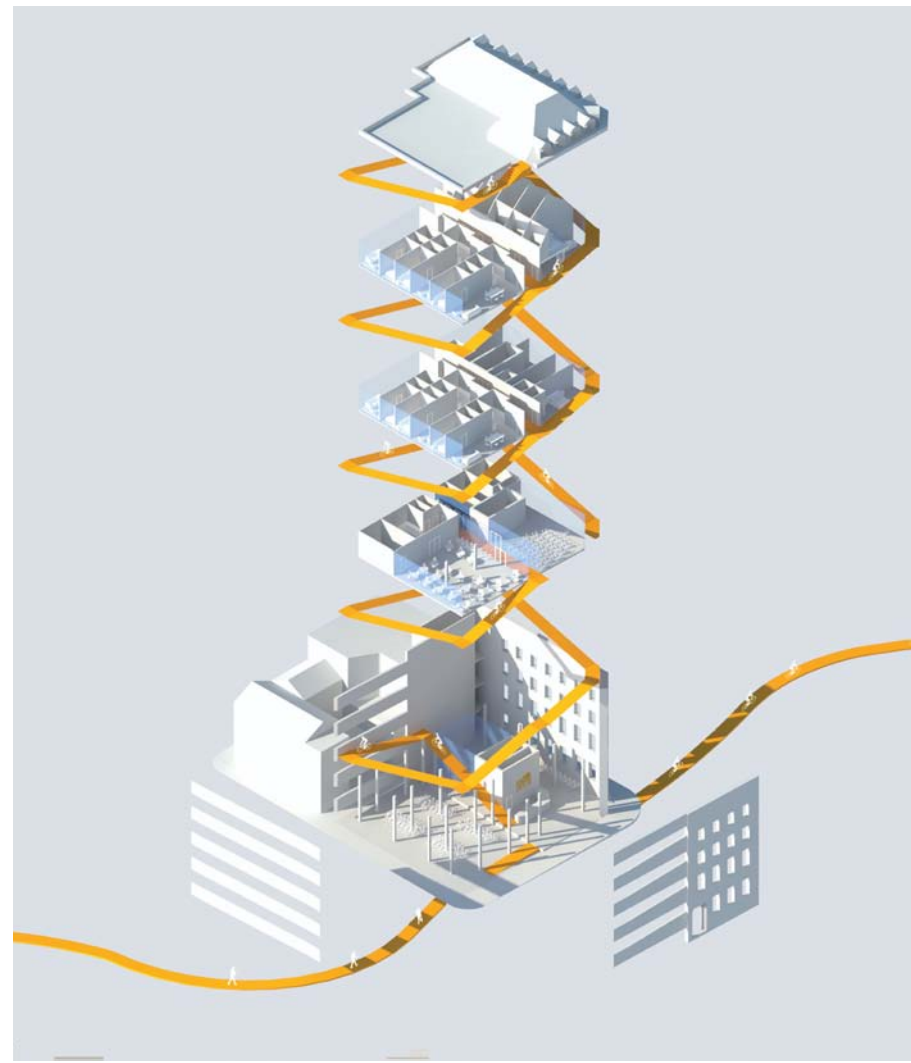
The Bicycle Bank / Thomas Kirk

'Using site analysis and demographic research, I found that the greatest problem for commuters along London Road was its congested footpath. My idea was to create a new transport hub within the framework of an existing grade II listed building. This hub would house a bicycle renting scheme and accommodation aimed at city commuters: The Bicycle Bank.'

Atelier 5

BA Humanities

Dr Luca Csepely-Knorr (Humanities Coordinator)
Dr Deljana Iossifova (Teaching & Learning Coordinator)
Dr Angela Connelley, Dr Isabelle Doucet, Dr Alan Lewis, Dr Ray Lucas, Amber Roberts, Becky Sobell, Dr Lukasz Stanek, Prof Albena Yaneva.

BA Humanities offers a wide variety of content designed to enrich the design studio, equip students with methods for research and context study, and to give opportunities to sharpen analytical and critical faculties.

BA Year 1

Architectural History: Epochs
Dr Luca Csepely-Knorr
An alternative to the conventional survey course, this examines the various ways in which we can consider an architectural epoch. The breadth of architectural history is considered with lectures examining Manchester and wider UK, European, and World contexts.

Architectural History: Paradigms
Dr Luca Csepely-Knorr
By mobilising architectural history we can more explicitly examine the design process. Students work in teams to investigate and critically analyse a key precedent in depth as a fundamental part of the design process and as a means of interrogating history. This year's focus was on the Case Study Houses examined through essay, drawing and model.

BA Year 2

Graphic Anthropology
Dr Ray Lucas
Combining approaches to drawing, diagramming and mapping with key themes and ideas from social anthropology we can develop a form of site analysis which transcends the physical aspects of a territory. This is assessed as a part of studio, with a poster presentation of students' field notes and enquiries into a site's social condition.

This year, six electives were on offer, sharing a common essay assignment and an element unique to each elective, such as in-class exercises, field notes, portfolio of related work, or literature review.

Architecture and Urban Design as Global Practices
Dr Lukasz Stanek
This course focuses on the emergence of architecture and urban design as global practices since the Second World War, both in the sense of the professional and disciplinary genealogy of architecture today, and as a survey of the material, institutional, and representational conditioning of planetary urbanisation processes. Discussing the world-wide mobility of architects, designs, concepts, and technologies we study how the principles of modernist architecture and functionalist urbanism were modified, questioned, revised, and challenged. In so doing, we focus on the multiplicity of actors and networks which facilitated architecture becoming world-wide from within the Global Cold War and decolonisation processes, paying particular attention to theoretical and methodological challenges.

Future Visions
Dr Angela Connelly
Within many urban areas there is a conflict between the built and natural environments, and cities have been predominantly shaped by economic interests. From a humanities-based perspective that critically approaches how we envisage sustainable and resilient urban environments in the future, this course reviews the theory and history of urban sustainability, introducing a range of key texts and designs on complex urban ecosystems. This situates sustainability within its historical, political and socio-ecological entanglements as a basis for approaching current concerns in urbanism, and on challenges such as risk, climate change and measuring environmental performance. The course draws upon examples from contemporary practice in art, architecture and urban design including, amongst others, Marco Casagrande & Foreign Office Architects.

Northern Utopias
Amber Roberts

The aim of this series is to relate key periods in English urban development to 'everyday' cities and towns. This unpicks key ideas that are visible in the surrounding landscape. The course focuses on developing skills in visual assessment through exploring the impact of each period on the spatial relationships and aesthetic on the region's towns and cities. Students develop their knowledge of research methods and sourcing materials. By the end of the series students can relate distinct periods of urban development to ordinary landscapes and are able to construct their own evidence supported case study using archival materials.

Politics And/Or Aesthetics of Architecture
Dr Isabelle Doucet

This discusses architecture's ambition to engage with the world at the intersections of politics and aesthetics addressing two sets of questions. Firstly, attempts (successful or not) to develop a 'style' for critical, political, resistant, revolutionary architecture. Secondly, to understand the aesthetics of political and critical architecture, we explore alternative ways of appreciating architecture beyond aesthetic 'beauty'. Questions include: Can space be appreciated through the use of; through appropriating it; or by being involved in its making? Is there quality in ugliness, decay, or ruins? Are there other ways of appreciating spatial quality, such as through tactile experiences, sound, or atmosphere? How to understand the seductive power of the images and icons of architecture?

Urban Landscape Theories
Dr Luca Csepely-Knorr

The role of urban open and green spaces has been vital from the very beginning of the history of our urban areas.

However, their function in the urban environment changed at the end of 18th century, as response to industrialisation. Lectures consider examples and theories which frame our thinking about the urban environment, discussing urban designers from different periods, who were responsible for introducing and developing these questions. While looking into their works with a critical approach, key issues of open spaces are introduced, proving connections and influences of different architectural, social, political and historical debates on theory of open and green spaces. Lectures include memory and urban spaces, moral and scientific education and open spaces and aesthetics of open spaces through history.

User-Centred Design
Dr Alan Lewis

In modern, capitalist society, architects rarely have the opportunity engage with building's inhabitants. Architects' clients are often contractors, speculative developers or public bodies, rather than users. This can make it difficult for architects to understand the needs of building users.

This elective takes a critical look at the term 'user' as employed within architecture, and will explore a range of strategies for understanding their needs. Various strategies are set in historical context, and the strengths and weaknesses of each approach will be examined. The difficulties of designing buildings for unknown users, who might differ from the architect in terms of age, gender, class and ethnicity, will be discussed along with the risks of stereotyping. Studying and responding to users' needs provides architects with a way of engaging with the wider world, beyond the narrow confines of the architectural profession.

BA Year 3

Ecology of Practice
Prof Albena Yaneva

Taking an anthropological perspective on architectural practice this invites the students to scrutinise design practice as complex ecology involving actors across a range of ontologies, scales and politics. The lecture series reflects on the importance of ethnography for understanding contemporary architectural practices: What is architectural ethnography? What is ethnographic data? By an introduction into the main steps of ethnographic analysis students produce an ethnography of a practice of their choice.

Urban Theories
Dr Deljana Iossifova

Many academic disciplines engage with the study of urban processes, but their terminology is often charged with discipline-specific meanings, for example 'urban', in particular, is often only loosely defined. This makes it difficult to establish common ground between urban scholars. This elective provides an overview of how 'urban' is defined and used in disciplines including Anthropology, Economics, Psychology, Sociology, Geography, Urban Political Ecology, History, Ecology, and Complexity Studies. It offers the opportunity to engage with a variety of disciplinary methods and approaches to the city. Lectures address the origin, evolution, and current use of the term 'urban' in each discipline; assumptions, approaches, and methods as well as their strengths and constraints, and the relationship (distinct from/exchange and cross-fertilisation) with other disciplines.

World Urbanism
Dr Ray Lucas & Becky Sobell

MSA staff and invited experts present lectures based on their own research, highlighting research methodologies and issues which relate to urban issues: dealing with the scale of the city. This series has a truly global scope. This course interacts with student field trips, to understand the city visited framed by classic readings in urbanism & architectural theory. Students work together in a strong peer-review culture, producing collected volumes of work which share an introduction and conclusion alongside a substantial illustrated essay.

Fig. 37: An archway hide-and-reveal in the Spanish Quarter. A shrine is just visible, a suprise hidden in the maze.
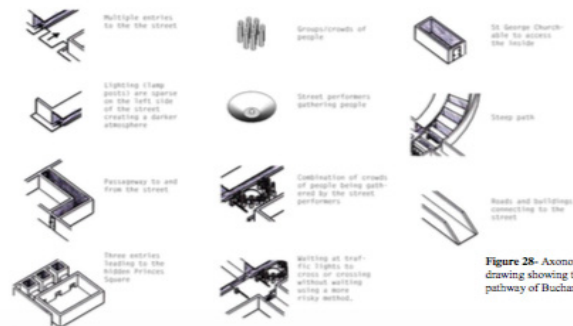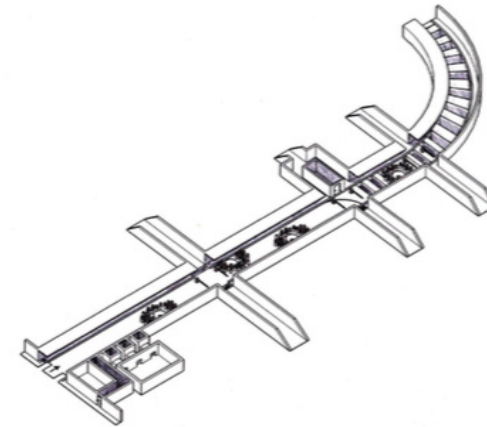
Figure 28- Axonometric drawing showing the pathway of Buchanan Street

Top: World Urbanism / Ilana Blumberg
Bottom: World Urbanism / Marco Wan

Humanities

Ecologies of Practice: ethnography /
Ryan Miller & Pascal Loschetter

Ecologies of Practice: ethnography /
Janice Po
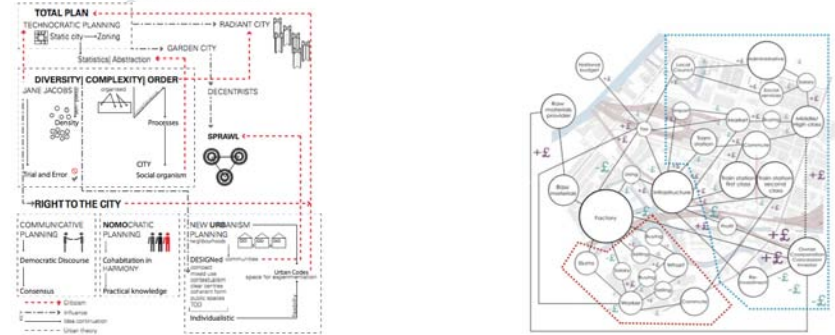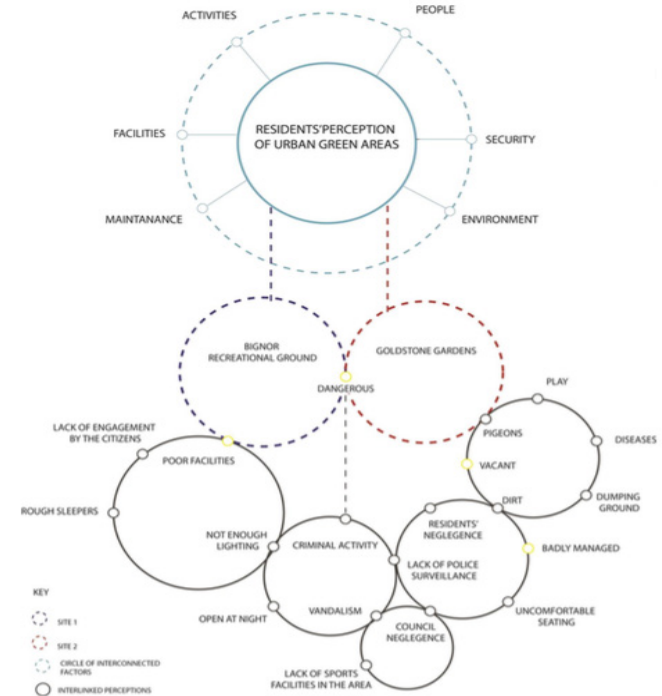
Top: Transdisciplinary Urbanism / Elena Balabanska
Bottom Left: Transdiciplinary / Urbanism Julija
Bottom Right: Transdiciplinary Urbanism / Viktor Petkov Pivovarek

Humanities

History of Architecture: Epochs, Liverpool / Shu Mei Guan

In his illustrated essay, Shu Mei discussed the impact Neo-Classicism had on the city of Liverpool .
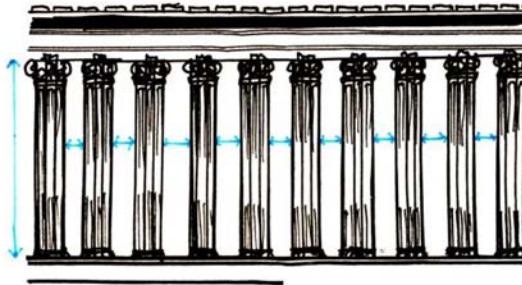
History of Architecture: Epochs, York / Charlotte McManus

Charlotte analysed the changes the Gothic period brought to the city of York. She studied the evolution of the city as well as the creation of the major landmark the Cathedral.
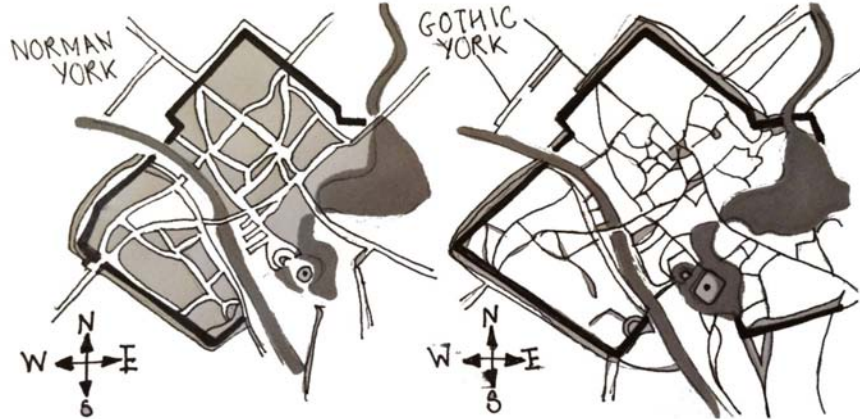
History of Architecture: Epochs, Runcorn / Magdalena Plonka

Magdalena examined the links between Post-War Modernism and New Towns in England, through the case study of Runcorn New Town.
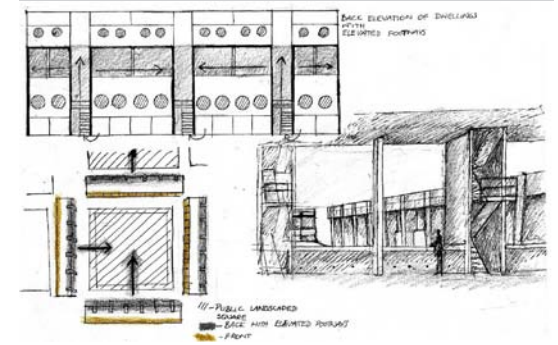
History of Architecture. Epochs, Chester / Lara Sofia Anna de Villiers

In her essay, Lara explored the the impact Revivalist architecture had on the City of Chester. She paid particular emphasis on the Jacobian Revival period.
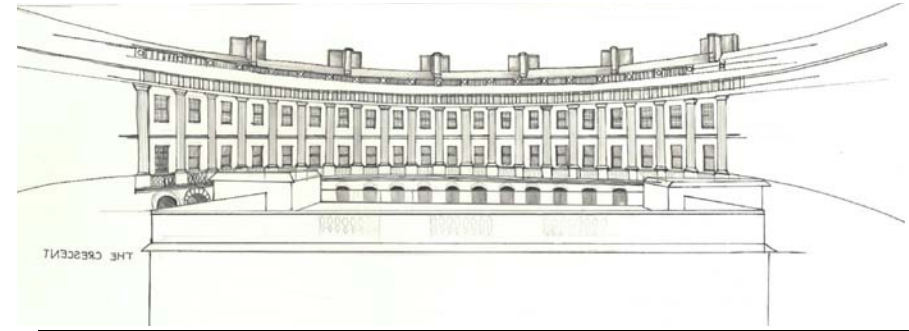
History of Architecture: Epochs, Buxton / Rosa Whiteley

Rosa investigated the enormous effect Georgian architecture and town planning had on the spa town of Buxton.

Humanities

Humanities

Technologies

Siobhan Barry, Rick Dargavel, John Lee, Glenn Ombler, Matt Pilling, Colin Pugh, Stefan White.

Our programme construction reflects the strategic drivers in the professional criteria leading to qualification as an architect. Technology teaching in the BA is undertaken as half of the 30 credit BA Technologies and Humanities unit. Like the humanities component, technologies acts to create an independent academic discourse - of architectural technology. This discourse is structured to enable students to contextualise, inform, inspire and justify their design propositions on the basis of the experience and expertise of the architectural discipline and its correlates. This technology discourse is structured to build up a catalogue of concepts, experiences, analysis, applications and experiments focused on answering the question: How do I do this...?

The BA technology course aims to enable students to see the built history of architecture as a realisation library by providing students with the skills to critically dissect and deconstruct the structural, material and environmental performance of architectural precedents in an operative manner. We provide lectures and structured case-study assignments that are aligned - but not integrated with studio - addressing technology as an abstract understanding that compliments the propositional applications produced in studio contexts.

Lectures by a combination of full-time staff, highly respected local practitioners and invited experts enable the collection of knowledge and improvement of existing understanding in contexts of contemporary relevance and critical validity. While design studio has a predominantly specific technological content, the abstract technological teaching is designed to increase the students' capability to select innovative and appropriate mechanisms of material realisation in multiple contexts. Case-studies are employed to develop representational and analytical skills in parallel whilst enabling students to practice their visio-spatiality and ability to synthesis concepts of building physics within the context of material realisations. Technological aspects of studio such as building visits or built projects enable the students to critically relate these positions.

Years 1, 2 and 3 are designed to enable the continual development of the material realisation skills and understanding of the students alongside the increasing levels of sophistication and authorship in their studio projects. There is a necessary overlap of content and approach between adjacent years to ensure that students of all abilities are enabled to progress as well as to reinforce and place emphasis on key knowledge in new contexts.

CASE STUDY 2 → MIMA HOUSE by MIMA ARCHITECTS

CLIMATE

THE MIMA HOUSE WAS DESIGNED IN VIANA DO CASTELO, PORTUGAL. ALTHOUGH IT CAN BE MODIFIED TO FIT OTHER CLIMATES.

AVERAGE TEMPERATURE GRAPH

○—● mean high temp.   ○—○ mean low temp.

AVERAGE RAINFALL GRAPH

○—● Average Rainfall days   ■ PRECIPITATION (mm)

47% OF SUNNY DAYLIGHT HOURS PER YEAR

SUNLIGHT

WHITE COLOUR COATING THAT IS GENERALLY ON THE ROOF HELPS KEEPING THE HOUSE COOL AS IT REFLECTS LIGHT INSTEAD OF MORE IN CONTRAST WITH DARK COLOURS.

THIS REGION IS SIMILAR TO MEDITERRANEAN CLIMATE: WARM/DRY SUMMERS AND COLD/RAINY WINTERS. AND THE OCCASIONAL WIND. THE DESIGN TAKES THIS INTO ACCOUNT AS IT MUST BE ABLE TO KEEP THE HOUSE COOL FROM THE SUN AND DRY FROM THE RAIN.

OVERHANGING STRUCTURE PROVIDES SHADE AND KEEPS THE INSIDE COOL.

WIND DISTRIBUTION IN (%)

CONSTRUCTION PROCESS:

1. GATHER MATERIALS
USE BUFFALOES TO CARRY HEAVY TRUNKS

2. PREPARE MATERIALS (= BUILD BRICKS CUT WOOD)

3. PREPARE SOILS

4. START WITH FOUNDATION WHILE IT SETS CRAFT TIMBER PILLARS

5. WHEN FOUNDATION HAS SET BUILD UP WALLS AND Y-PILLARS THAT CONSTITUTE THE PRIMARY STRUCTURE

6. ADD SECONDARY STRUCTURE AND ROOF COMPONENTS

7. ADD FINISHING TOUCHES (= WINDOW FRAMES / PLUMBING)

In year one the specific operative focus is provided by examining existing applications and techniques through a series of lectures and analysis exercises which support a subsequent holistic analysis of small scale (but often structurally or environmentally complex) case-studies.

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STRUCTURE

THE BASIC CONFIGURATION OF THE HOUSE IS. IT HAS A LOAD BEARING MASONRY SUPERSTRUCTURE AND A SUBSTRUCTURE OF REINFORCED CONCRETE BEAMS AND PILES.

PRIMARY STRUCTURE:
MASONRY WALLS

• MASONRY WALLS CARRY THE MAIN LOADS OF THE HOUSE DOWN TO THE FOUNDATIONS
• THEY ARE GOOD FOR DISTRIBUTING THE LOAD EVENLY

BEAMS & BLOCK
BEAMS TRANSFER VERTICAL LOAD HORIZONTALLY DOWN TO THE FOUNDATIONS

MASONRY LOADING

SHEAR FORCES

SECONDARY STRUCTURE:
LINTEL

• LINTEL SPANS ABOVE THE WINDOWS AND IT'S FUNCTION IS TO TRANSFER THE VERTICAL LOAD SIDEWAYS TO THE MASONRY WALLS

TIMBER BEAMS
• MAIN FLOOR & TRANSFER LOAD TO MASONRY WALLS
■ LOADBEARING WALLS
□ NON-LOADBEARING WALLS (= WINDOWS)

EXCELLENT NOISE REDUCTION

OUTSIDE   INSIDE

GROUND FLOOR PLAN

WALLS

MAIN FUNCTION: • INSULATION
• ABSORB SOUND
• PRIVACY PROVIDER

WATERPROOFING MEMBRANE

VENTILATION CAVITY

U-PROFILED GLASS PANES

GALVANIZED STEEL CHANNELS

STEEL SUPPORT

MINERAL WOOL INSULATION

■ INSULATION LAYER IS THICKER ON EXTERNAL WALLS AS THEY'RE MORE EXPOSED TO THE COLD FROM OUTSIDE AND A GREATER SURFACE AREA OF INSULATION MEANS LESS HEAT CAN ESCAPE

2ND FLOOR

PLASTER BOARD WITH SKIN FINISH
■ IS USED FOR THE INTERIOR OF THE WALLS AS IT ABSORBS SOUND WELL, THUS HAVING A GOOD ACOUSTIC PERFORMANCE WHEN IT COMES TO MUTING DOWN NOISES SUCH AS SPEECH OR MUSIC.

1ST FLOOR

SKIN

■ LOADBEARING STEEL FRAME IS HIDDEN IN THE WALLS FOR AESTHETIC PURPOSES AND IS PROTECTED FROM CORROSION BY THE WATERPROOF LAYER & THE GALVANIZATION.

SECTION THROUGH WALL

U-GLASS PANES ALLOW NATURAL LIGHT IN WHILE GIVING A FROSTY ATMOSPHERE FOR THE FAÇADE AND PROVIDE PRIVACY TO THE OWNER, THEY CAN'T BE SEEN FROM THE STREET.

TRANSLUCENT U-GLASS PANES

Joana Vilaca

Every student builds a series of directed study exercises and case-study analysis into a technology case-file submission, which begins the process of collecting understandings and experience of a range of technological systems, techniques and circumstances. The emphasis is placed on individual analysis and direct appreciation through annotated sketching, physical model-making and diagramming.

Technologies

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Case File Exercise A

- skeletal structure
- stability depends on triangulation (bracing)
- pile foundation

tension

compression

retaining wall designed and constructed to resist the lateral pressure of the soil being retained

- primary structure
- secondary structure
- tertiary structure
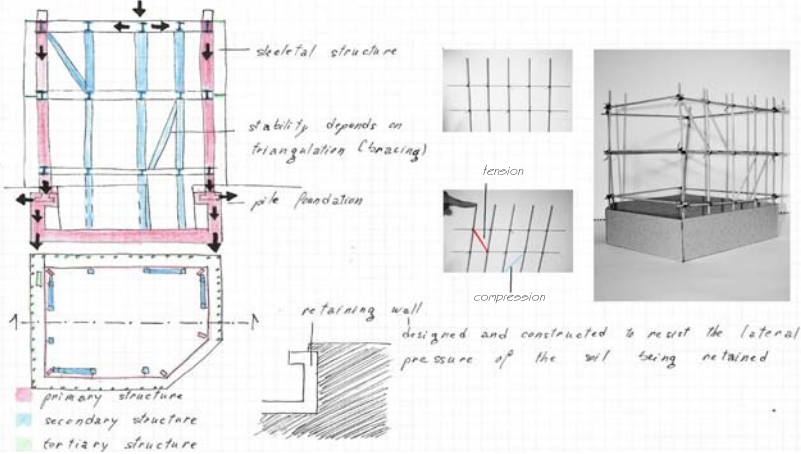
Principles of Daylighting and Solar Control
Sendai Mediatheque, Sendai, Japan, Toyo Ito 2001
Sefaira Exercise [Case File H]

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The information above shows the analysis generated by Sefaira of the orignial building model that I made. It shows that the building is not in the energy efficient bracket and that it's energy consumption is heating dominated. This was before I altered any of the element properties on Sefaira. It could be assumed that the building loses a lot of heat due to the glazed 'skin' of the building.

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I adjusted the element properties from the standard settings in order to make the building model more energy efficient. Originally the Sefaira analysis concluded that the building was heating dominated. To reduce this heat loss I increased the level of insulation in the glazing as well as in the roof of the building, I also increased the efficiency of the heat pump. This resulted in the overall energy consumption of the building lowering considerably.

The analysis shown on the left has been generated using the daylighting visualisation tool on Sefaira. It shows the percentage of occupied hours where illuminance is at least 300 lux, with the yellow colour representing 80-100% of the occupied hours.

This shows how the building has been designed efficiently as the building is occupied during the daytime when daylight is available. The building has been designed so that it is lit mostly by daylight, the light tubes reach down to the lower floors of the building to allow those to benefit from natural daylight. This means that less energy is used for artificial lighting in the building.

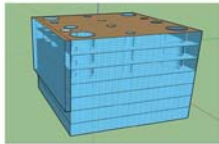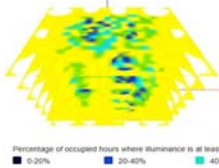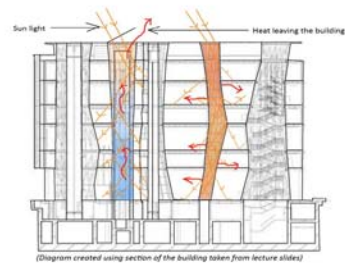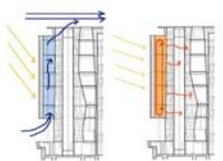Percentage of occupied hours where illuminance is at least 300lux, measured at 0.85 meters above the floor plate.
■ 0-20% ■ 20-40% ■ 40-60% ■ 60-80% ■ 80-100%

Sun light → Heat leaving the building

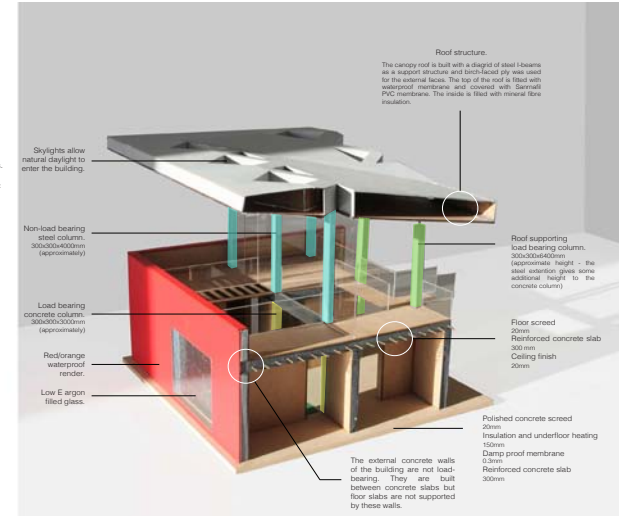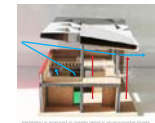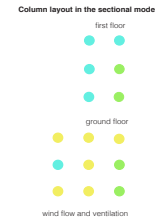(Diagram created using section of the building taken from lecture slides)

The diagram above shows how the building uses daylighting strategies in conjunction with passive thermal comfort strategies to accommodate seasonal changes. It shows how the function of the light tubes alters to provide thermal comfort in the building in different seasons and conditions. The tube on the left shows how the tubes operate in summer in hotter temperatures. The top of the tube can be opened so that light can still pass down through the tube however warm air from the tube can escape out into the atmosphere allowing cooler air in to cool the building. The tube on the right shows in winter how the tube remains closed to retain warm air which passively heats the building, thus lowering the amount of energy used to heat the building.

The section on the far left shows how passive cooling takes place during summer, the vent at the top of the air bump on the double-skin facade is opened, when the wind passes over the building it creates a cooling updraft which cools the building reducing the need for air conditioning.

The section on the left shows how the double facade works in winter. The vents at the top of the air bump are closed. This allows the air inside to be heated by the sun. The heat from the air bump then radiates into the building, reducing the amount of heating needed.

Constructional Model
Sheet 2A

Concrete columns in the ground and first floor act as the primary structure in Maggie's Centre.

Inner, outer walls and the rest of the columns in the first floor act as the secondary structure.

● load bearing columns.
● non-load bearing columns.
● roof supporting load bearing columns.

Column layout in the sectional model:

first floor

ground floor

wind flow and ventilation

Roof structure.
The canopy roof is built with a diagrid of steel I-beams as a support structure and birch-faced ply was used for the external faces. The top of the roof is fitted with waterproof membrane and covered with Sarnafil PVC membrane. The inside is filled with mineral fibre insulation.

Skylights allow natural daylight to enter the building.

Non-load bearing steel column. 300x300x4000mm (approximately)

Roof supporting load bearing column. 300x300x5400mm (approximate height - the steel exterion gives some additional height to the concrete column)

Load bearing concrete column. 300x300x3000mm (approximately)

Red/orange waterproof render.

Low E argon filled glass.

Floor screed 20mm
Reinforced concrete slab 300 mm
Ceiling finish 20mm

Polished concrete screed 20mm
Insulation and underfloor heating 150mm
Damp proof membrane 0.3mm
Reinforced concrete slab 300mm

The external concrete walls of the building are not load-bearing. They are built between concrete slabs but floor slabs are not supported by these walls.

Enviromental Performance - Sheet 4B

Concrete floors are used which have a high thermal mass. This means that any direct heat gain from the sunlight can be stored in the concrete and released slowly over the course of the stay. This reasonably slow and controlled realise of heat keeps the building at a comfortable internal temperature.

The building is naturally ventilated via the internal gardens which are open to the inside. As wind passes over the building low pressure in the gardens draws the used air out of the building. During cold days these openings can be closed and smaller vents and openings in the roof and 1st floor can be utilised.

One challenge facing the architects was the large amount of traffic noise on the site. They combated this by planting over 8 trees and surrounding the building in a high thick concrete wall. The concrete works well as a sound absorber and the openings and trees help direct views away from the traffic.

86   24

COOLING DOMINATED   HEATING DOMINATED

The Maggie's corridor lighting would normally be mostly glare as shown by the 'first sefaira image in the summer, and in the winter mostly underlit. However due to the shading of the buildings and the 40 planted trees on the site help shade the building from too much direct light.

Cut outs on the roof allow light, rain and wind to penetrate.

The buildings heating requirements in the summer means the buildings energy consumption varies throughout the year. Because the building is naturally ventilated during the hot summer days the energy consumption during the summer months is noticeably lower than that of the winter. During the winter the building needs to be sufficiently heated to allow for a comfortable internal consumption for those with illness. To external temperature is continuously monitored and an override let the building regulates the internal temperature to minimise energy waste. All of the external walls and roof are well insulated in order to reduce energy consumption and waste, increasing the passive effect of the building.

2nd Year

In year two the lectures and exercises both expand the field and explore certain issues in more detail (for example introducing industry leading environmental analysis software as a learning tool). These lectures then support the critical deconstruction and reassembly of existing precedents, working in teams to explore some of the roles and issues of collaboration present in the process of construction.

Maggie Centre reconstruction report, Group 9Bb / Laura Dirzyre, Michael Jenkins, Anahita Mohammadkhani
Opposite Page:
Top: Teodora-Alina Voia
Bottom: Rachel Alty

Technologies

INTEGRATED DETAIL ENVELOPE STUDY-1:50

1: 21.5mm ENGINEERING BRICK CLADDING
2: WALL TIES
3: DAMP PROOF MEMBRANE
4: 80mm RIGID INSULATION
5: 25mm ROCKWOOL INSULATION
6: VAPOUR BARRIER
7: 10mm PLASTERBOARD
8: 5mm LAMINATED FLOORING
9: 250mm LIGHT STEEL FRAME
10: 80mm PRE-CAST CONCRETE PANELS
11: 40mm SCREED
12: 220mm RAISED ACCESS FLOOR
13: 280mm REINFORCED CONCRETE SLAB
14: 150mm HARDROCK INSULATION
15: 150mm POLYSTYRENE INSULATION
16: STRUCTURAL STEEL PILES
17: PIPES
18: 250mm MINERAL WOOL INSULATION
19: CLADRAIL
20: SYPHONIC DRAINAGE
21: SINGLE PLY MEMBRANE
22: 50mm ALUMINIUM STANDING SEAM CLADDING
23: OPAQUE INSULATED ROOFLIGHT VENT
24: SNOUTS
25: STEEL FRAME
26: ROOFLIGHT GLAZING
27: PHOTOVOLTAIC PANELS
28: 75mm BRICKWORK COPING

Theory-Strategy and Detail

WATER
moisture / vapour retention, penetration and exclusion

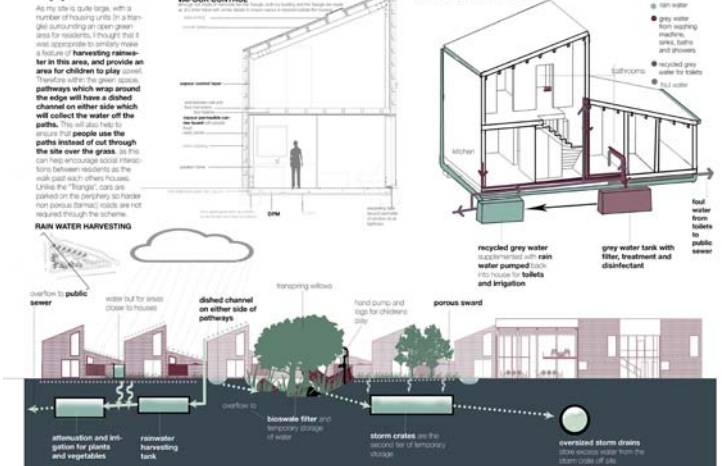## The Triangle - glenn howells architects

Located in Swindon, this housing scheme focuses on a strong sense of community, importance of public space, and commitment to sustainable lifestyles. Water was a driver for the deceptively simple plan with a central green with a "wet meadow" which forms part of the sustainable drainage strategy.

VAPOUR CONTROL

GREY WATER AND RAIN WATER

RAIN WATER HARVESTING

Application

As my site is quite large, with a number of housing units in a triangle surrounding an open green area for residents. I thought that it was appropriate to similarly make a feature of harvesting rainwater in this area, and provide an area for children to play spaces. Therefore within the green space, pathways which wrap around the edge will have a dished channel on either side which will collect the water off the paths. This will also help to ensure that people use the paths instead of cut through the site over the grass, as this can help encourage social interactions between residents as the walk past each others houses. Unlike the "Triangle", cars are parked on the periphery so harder non porous (tarmac) roads are not required through the scheme.

VAPOUR CONTROL

GREY WATER AND RAIN WATER

RAIN WATER HARVESTING

2nd Year

The first part of year three begins with a complex building case-study analysis undertaken in a similar format to year two but on an individual basis, framing the level of technological resolution sought for the developing studio projects.

Above: Precedent application. M.Serlin
Opposite Page: Building Case study (Heelis Building) / M.Abouelala

The second part of the course develops the discourse of technique in the specific context of the design ateliers. A series of lecture discussions examining key themes are tied into atelier specific precedents and briefs supporting students in developing a series of precedent analysis and application studies that provide a rigorous academic argument for the technological development and resolution of their individual design propositions.

Technologies

Landscape Architecture

Eddy Fox, Ian Fisher, Becky Sobell, Luca Csepely-Knorr, Jo Phillips, Amber Roberts.

Landscape is the physical environment which shapes and conditions our individual and collective lives and activities. Landscape in the anthropocene era is primarily shaped by human activity, but remains the constantly evolving manifestation of multiple cultural and environmental systems. Landscape Architecture is the primary means of organising and mediating these complex systems and reconfiguring the physical world in response to the pressures of climate change, urbanisation, food insecurity and energy supply.

Landscape Architecture explores the stratified make up of the landscapes we inhabit and the shifting and complex ways in which they are configured. The subject investigates the relationships between our preconceptions of the natural and the human or between the misleading dualism of the urban and the rural, to generate new conceptions and relationships. Projects use the rapidly evolving landscapes of Greater Manchester, mosaics of the agricultural, industrial, post industrial and futuristic, to reveal relationships at a progressively expanding set of scales and degrees of complexity.

Students develop strategic and tactical means of re-imagining and reshaping landscapes in response to the critical challenges of the contemporary world, such as accelerating urbanisation, environmental and individual health, or cultural and collective identity. Projects explore these themes in an inter-disciplinary spirit, often alongside architects and with the collaboration of external professionals. Through these collaborative processes a new language of landscape is developed which embraces infrastructures of energy and movement, which embeds ideas of fluidity and uncertainty, and which reveals new possibilities for symbiotic relationships between cultural and natural processes.

Landscape Architecture

Eddy Fox, Jo Phillips, Luca Csepely Knorr, Amber Roberts.

The primary focus of Landscape Architecture at the MSA is the idea of urban space and place as manifestations of complex environmental and cultural systems. The landscape is the primary mediator of multiple layers of infrastructure and the design of space is approached as an exploratory exercise in testing means of organising and expressing the interactions of human and environmental processes in a specific context.

The work of Year 2 has focussed on the multi-cultural neighbourhood of Levenshulme as the scenario for their investigations into Green Infrastructure, sustainable communities and urban connectivity. Through the use of mapping, wayfinding and modelling, students have moved from the strategic to the site scale, exploring the potential for transforming urban communities through imagining and revealing new relationships between social and environmental systems.

Urban Natures

The work of Year 2 has focussed on the multi-cultural neighbourhood of Levenshulme as the scenario for their investigations into Green Infrastructure, sustainable communities and urban connectivity. Through the use of mapping, wayfinding and modelling, students have moved from the strategic to the site scale, exploring the potential for transforming urban communities through imagining and revealing new relationships between social and environmental systems.

This first project looked at the relationship between greenspace systems and the urban fabric of Levenshulme. Both the agricultural and industrial pasts of the area are evident in the make up and occupation of present day greenspace. The diverse ecologies, cultural perceptions and environmental values of these extensive areas relate back to previous land uses as well as current patterns of management, ownership and occupation. Students explored experimental means of mapping historical change, and the multiple roles and values of greenspace, as well as the social and cultural make up of the community,

Top: Toby Adams, Sam Hamilton
Below: Julia Torr, Isabel de Garston

Wayfinding

An understanding of the multi-layered fabric of the neighbourhood led to an exploration of new routes and linkages between spaces, reconnecting aspects of the community to greenspace in ways that explore and reveal the interfaces between the two.


Top: Courtney Chappell
**Bottom: Sam Hamilton**

Year 2

Site Transformed

Having explored the relationships between environmental and cultural systems and conditions at a neighbourhood scale, students evolved a proposals for a specific space, considered as a manifestation of these relationships in response to a specific site context. Projects included the development of an existing market space to incorporate urban agriculture, and the development of a linear space adjacent to the A6 as a large-scale Raingarden.

Framing the market / Isabelle de Garston
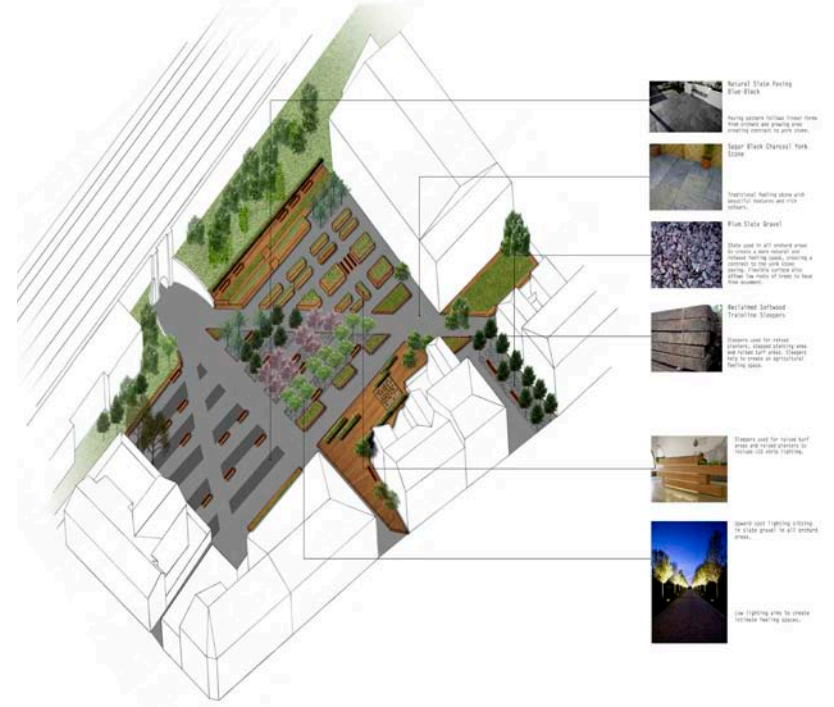
Levy market allotments / Sam Hamilton
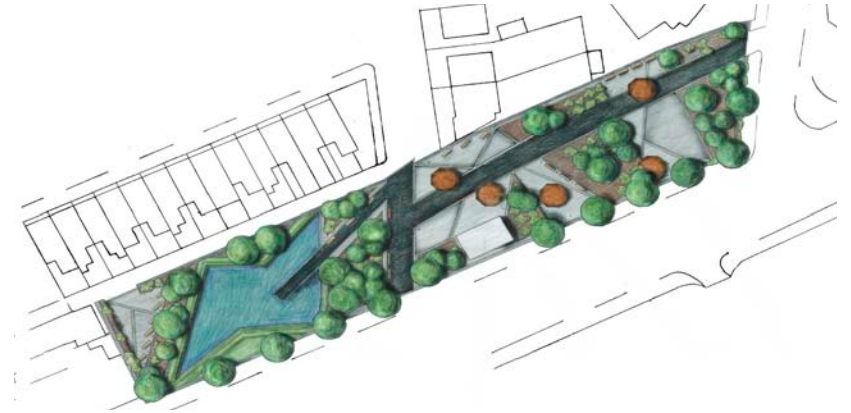
Top: Secret garden / Julia Torr
Bottom: Controlled regeneration / Elliot Joyce

Year 2

Landscape Architecture

Becky Sobell, Eddy Fox, Jo Phillips.

Imagine a future faced with extreme environmental conditions. How would your life change?

In close collaboration with Y3 Architectural atelier 'Intelligent Assemblies', Y3 Landscape Architecture have been investigating future possibilities for coping with a range of extreme conditions.

Research into weather and pollution data for the UK led to imagined scenarios. 7 miles south east of Manchester, Stockport offered a variety of test sites. At the confluence of two rivers, Stockport has dramatic topography and a history of continual and occasionally massive change. It had a medieval castle, and the town held its market charter from 1260. Industrial development was based on textiles and hatting; the Stockport Viaduct was the largest in the world on completion in 1840. At the same time, Friedrich Engels described Stockport as 'one of the darkest and smokiest holes in the whole industrial area.' During WWII, Stockport offered protection to the surrounding region with extensive air raid shelters cut into the sandstone rock. It also holds the record for Greater Manchester's lowest ever temperature; -17.6C in January 2010.

Six groups researched and imagined a scenario based on an extreme condition: water, heat, wind, drought, cold, and pollution. Each scenario is located in the future and defines a specific set of environmental parameters. Group manifestos and individual programmes are proposed as responses to the extreme conditions.

The varied landscape architectural responses to these conditions reflect concerns of individuals who aim to provide resilient and practical solutions to frightening situations that may become the everyday.

We believe that there are ways to face change with hope and pragmatism. We imagine Stopfordians storing water for drier times, taking walks in the shade, growing plants to clean waterways, enjoying the rise and fall of river levels, profiting from high winds, and having fun in the snow and ice.

My project takes a theoretical view of the future where global warming has accelerated, and Stopfordians are forced to live in extremely hot and dry conditions.

In my proposals, Stockport will use passive methods of cooling people down, and will obtain sufficient water from a reliable source nearby for its own use. Stockport will be easier to navigate, because new focal points will be provided, and will use more of its own land for food production.

Year 3

My aim is to make the freezing world outside habitable and to give people a reason to want to go outside, despite the extremely cold weather. I embrace the weather and provide ice climbing, skiing and slides, as well as warm places to relax. This landscape promotes outdoor play and frozen fun and has a positive environmental impact. The world outside might be dark and cold, but we will still have fun.

Year 3

My scheme sets out to revive a polluted Stockport. It will remediate land, air and water in a way that can be enjoyed by people. Throughout my scheme people regain their ability to circulate freely - while still allowing vehicles traffic to flow. People will reconnect with the river as they could before long stretches of river were buried.

Year 3
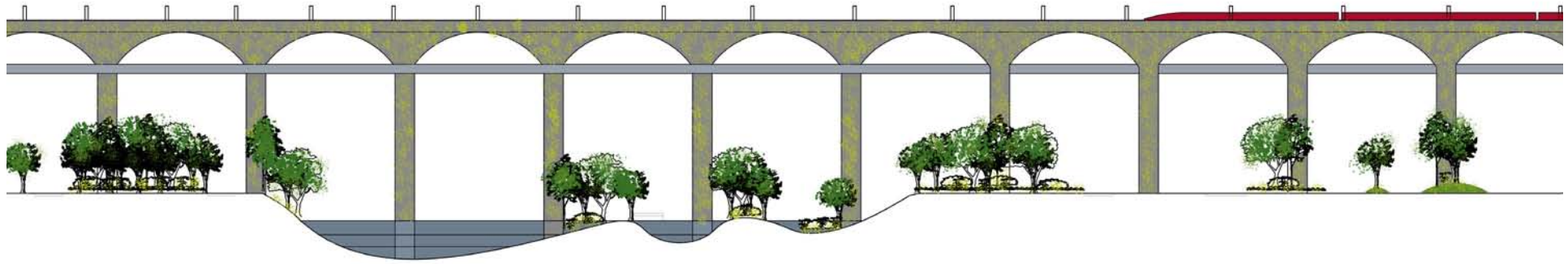
Stockport Sponge Park / Ashley Eagles

The use of ecotopian theory brings four concepts together; localised urban farming, exercise, water management and realistic futuristic design.

By 2050 Stockport will be experiencing extreme weather events. Stockport Sponge Park is a reaction to an ever-changing weather system. Stockport Sponge Park reacts to the weather on all scales; designed to adapt and react to extreme precipitation. The use of over-flow swales to store water during floods, slows water down and reduces flooding downstream. An elevated walkway provides access to both sides of the Mersey Valley during high water. Seating in the proposal is reactive to weather and senses when precipitation begins; a canopy then moves over the seating to keep the users of the park dry.
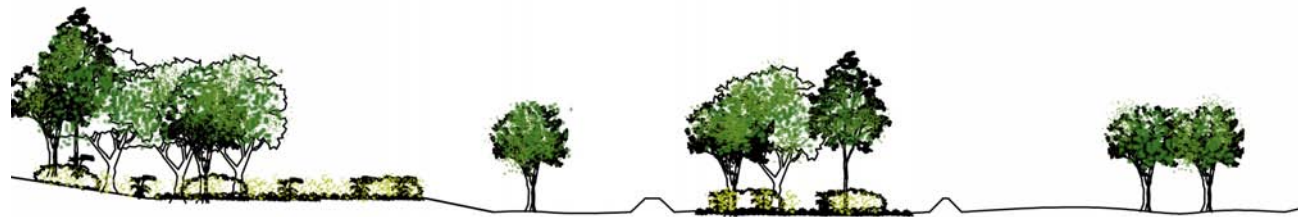
B.15 Model Workshop

James Backhouse, Scott Miller.

B.15: 45 Architectural Modelmaking Exhibition

To mark 45 years since its opening the James Backhouse and Scott Miller of University of Manchester's B.15 Workshop curated an exhibition on Modelmaking in Humanities Bridgeford Street (formerly known as the Kantorowich Building). Drawing on its long tradition of model making expertise, the exhibition documented the various types of models used by students of Manchester School of Architecture and explained the reasons behind their construction. Having access to such a clear outline of types and precedent in modelmaking provided invaluable inspiration to students, practitioners and academics alike, and it is hoped the exhibition will continue as a permanent resource for future students.
Modelmaking in the Digital Age Symposium

MANCHESTER 1824
The University of Manchester

B.15 :45

ARCHITECTURAL MODELMAKING EXHIBITION

**PREVIEW 12 SEPTEMBER 2014
5PM TO 8PM**

INTRODUCTION FROM PROFESSOR NICK DUNN

FIRST FLOOR, HUMANITIES BRIDGEFORD STREET BUILDING

EXHIBITION RUNNING THROUGHOUT 2015

A RETROSPECTIVE LOOK AT 45 YEARS OF MODELMAKING IN ARCHITECTURAL EDUCATION.
MODELMAKING HAS ALWAYS BEEN A CRUCIAL TOOL IN ARCHITECTURAL EDUCATION AT MANCHESTER. WHY IS THIS? WHAT DO MODELS GIVE TO THE STUDY OF ARCHITECTURE? AND WHY HAS THEIR USE CONTINUED DESPITE FAST PACED CHANGE IN THE INDUSTRY?
B.15: 45 LOOKS AT A WIDE RANGE OF WORK PRODUCED SINCE THE ESTABLISHMENT OF THE B15 WORKSHOP AT THE UNIVERSITY OF MANCHESTER IN 1970.

2015 MARKS 45 YEARS OF THE KANTOROWICH B.15 MODELMAKING WORKSHOP

TO ATTEND THE PREVIEW EVENT PLEASE REGISTER BY 5 SEPTEMBER 2014 VIA:

WWW.SEED.MANCHESTER.AC.UK AND FOLLOW THE B.15:45 LINK.

msa Manchester School of Architecture   MANCHESTER 1824

Modelmaking in the Digital Age Symposium

Also organised by James Backhouse and Scott Miller, the first symposium event organised by the B.15 Workshop looked at the role of modelmaking in practice and education, and its evolution to the present day. The event was chaired by Dr Ray Lucas who set out to identify common and unique uses in architectural practice presented by the speakers on the day.

Professor Nick Dunn from Lancaster University opened the presentations presenting a historical view of the subject from its earliest origins up to a view of a potential future. Professor Dunn's research on the subject provided a historical context that conveyed an enduring demand for the tool of modelmaking.

Ken Grix spoke of the commitment to modelmaking in design development at Fielden Clegg Bradley Studios. Of particular interest was the very placement of the workshop environment in close and visible proximity to design studio and office space was considered to be of fundamental importance to their everyday working patterns.

Professional Modelmaker and director of Amalgam Models, James Smith gave an account of the changes in technology that have occurred since he began his career and the pros and cons that have come with them. Insights into varying demands from architects as clients provided another perspective on the changes occurring between designers and makers.

Dr Milena Stavric outlined the way in which modelmaking is used in teaching architecture at Technical University Graz. Dr Stavric explained how making skills are understood as a core structure for teaching and learning in architecture. This insight raised many questions in the discussions that followed around the importance or key skills and how they are taught in academia.

The symposium came to a close with a talk by Ed Bartlett and Gregor Anderson of Foster & Partners Modelmaking and Rapid Prototyping departments. As was clear from the video and sample images presented, the role of modelmaking is a cornerstone of both commercial operations and design development at Foster & Partners and shows no signs of stopping in future with the annual completion rate for projects running from hundreds to thousands across a full range of media.

Dr Milena Stavric speaking at the symposium.

Workshop

Events 2015 {Trangression}

Victoria Jolley.

Each year the Manchester School of Architecture runs a successful collaborative Events programme. Events unites years 1, 2 and 5 through short student-led projects that are initiated, planned and directed by the MArch students. Entitled 'Transgression', this year's Events asked students to question, explore, redefine and communicate what architecture could be. Cross-atelier and external transdisciplinary partnerships have been encouraged and the resulting 22 projects have included installations, charrettes, research and community engagement activities. Events offers a rich and varied learning experience for all years. As well as running their own projects, Year 5 co-ordinate a team of Year 1 and 2 students, who narrate progress through a reflective blog, events.msa.ac.uk.

This year's contributors include:
Bergen School of Architecture, Bruntwood, Hobbs, Hulme Hippodrome and Youth Enterprise Team, Jim Chapman, Architect, Manchester Society of Architects, Littoral Trust, MMU Estates, MMU Special Collections, Manchester Museum, Manchester University Chaplaincy, UoM Student Union, NOVARS, Pangaea, Wax Expertise, Whitworth Art Gallery, Z-Arts.

01	2 Re_Appropriate
02	3D Graffiti
03	Architecture as Actor
04	Architecture Behind the Scenes
05	Constructed Sound
06	70 Oxford Street
07	Double Take
08	Foodietecture
09	P[R]UBLIC
10	Performing Architecture
11	Play
12	Project// Project
13	Saint Lukes Bombed Out Church
14	Merz 15
15	Manchester Sketch-Fest 2015
16	The Borrowers
17	Transgression in Peaces
18	Transgrestival
19	The Future of Transportation and Transmission
20	Adverse Space
21	WAXinFLUX
22	Wittgenstein's Extension

Top:
Event 18 / Transgrestival

The design and installation of a DJ booth to be used during this year's outdoor silent disco at Pangaea, Europe's largest student-run festival.

Bottom:
Event 22 / Wittgensteins Extension

Kite flying and a research project to explore possibilities for the reconstruction of Ludwig Wittgenstein's hut.
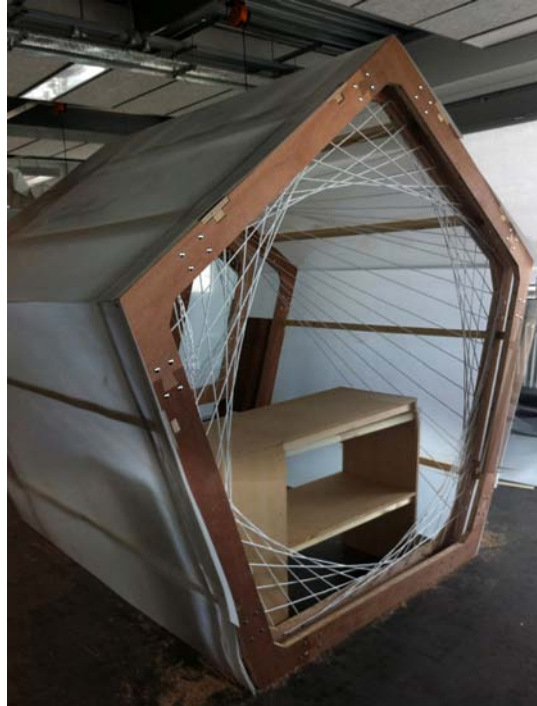
Event 14 /
Merz 15

Design for an exhibition space at Kurt Schwitters's Merz Barn, Windermere, as part of a live project for the Littoral Arts Trust.

Event 15 /
Sketch Festival

In conjunction with the Manchester Architects, two weeks of sketching activities around Manchester concluding as an exhibition.
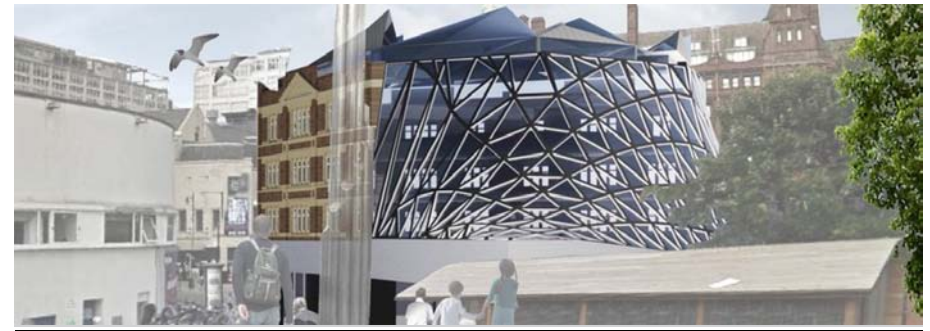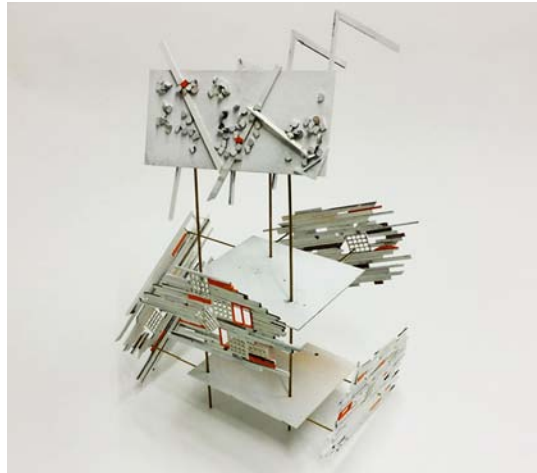
Above: Event 6   70 Oxford Street   Re-use / Rescue

Proposals for the reuse or development of 70 Oxford Street.

Events

MArch Introduction

Sally Stone (MArch Programme Leader).

The position of the architect has, in the last generation, radically changed. The role is far greater than the 'masterly, correct, and magnificent play of masses brought together in light'. The architect is now expected to act as a: 'Community Enabler, Contractual Innovator, Educator of Excess, Double Agent, Strategic Designer'. A new type of generalised design practitioner is developing, one who is involved with horizontal connections across disciplines; that is a Strategic Generalist who is concerned with Multidisciplinary Orchestration and Disruptive Change Agency. Architectural education can prepare future architects for their expanded position. Architects can think laterally, they are excellent problem solvers, they know how to work within a team, they can lead, and they are visual people who understand technology, sustainability, conservation and the consequences of the digital revolution.

The Master of Architecture programme actively engages with many aspects of contemporary thinking to provide an education that is distinct and focussed, wide ranging but also with depth. The studio atelier system supports this approach to diversity. Students can select to join a particular atelier for one or both years of their studies. This heterogeneous approach is reinforced by theoretical and technological workshops, the dissertation encourages academic research and the professional studies module concentrates upon matters of practice and engagement.

Architectural education is about to enter a period of great change, the RIBA and ARB are presently discussing various proposals for the future of all courses in the UK, alternative propositions include streamlining the time spent in university to bring it in line with Europe, encouraging more time in practice, and/or removing the Part 1 requirement. It is important that not only is Manchester School of Architecture is at the forefront of these discussions but also that we are prepared to meet these new challenges.

USE - Urban and Spatial Experimentation

Karsten Huneck.

At Atelier USE the students are encouraged to look for the hidden intrigue of each site. The projects should tell a story which is born out of an idea considering the inherent nature and the potentials of the specific site. These strong and deliberately free and individual concepts will then lead through all the design stages without loosing their full strength and beauty.

The topic for year 2014/15 was to develop a spatial strategy for a site located along the River Irwell at the corner of Water Street and Quay Street.

Currently there is a very intriguing historical warehouse built around 1840, which hovers a few meters above the river.

The typology of this building has been a recurring theme along the river and contains a huge potential in regards to future development.

The new strategies for this building/site could vary from minimal interventions to substantial buildings with the ultimate aim to create a long-term use of the site. Through a thorough analysis and survey of the site as well as research about the building and the surrounding area strong concepts had to be explored. These ideas have been developed in various steps throughout the year.

The site is owned by the Council and partly used as a car park by the Marriott Hotel. We have been liaised with those parties in order to gain access and receive all relevant information needed.

USE students 2014-15:
Kamal Benissad, Tim Casselden, Natalie Dossor, Samuel Hall, Joe Harris, Daniel Kempski, Lina Keturkaite, Peter Lee, Miranda Mc-Cabe, Zatul Hazirah Binti Mohamad Khoiril, Diana Muresan, Shah-rul Ridhwan Bin Shahruddin, Atiqah Nabilah Binti Aidi Rosli

The Spectacle of Privacy /
Lina Kertukaite

The project is aiming to question the phenomenon of privacy in everyday life of the city. Drawing on the history of the domestic living room politics, the space was designed to provide dual identity to its visitors 'be the entertainment and the entertained. Diagonal line through the building uses the domestic element of the staircase shape to connect two cities of Manchester and Salford creating public and private areas. The intersections between the public and private spaces shape into pods for intimate theatre performances, where the observers could be included in the performance without realising it.
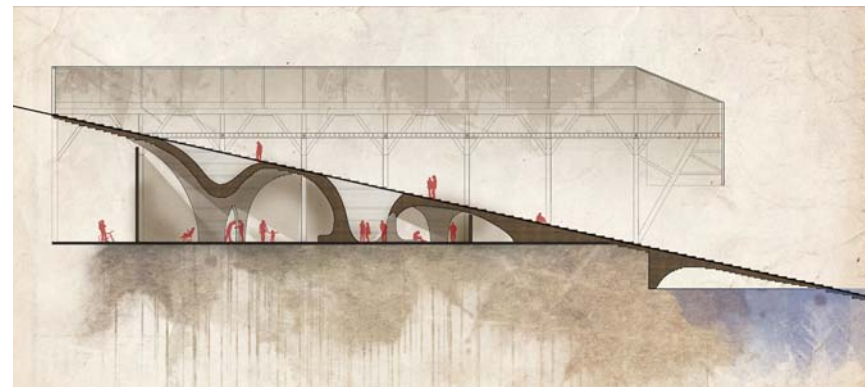
Peddle Hub and Agrocircuit /
Shahrul R. Shahruddin

Demand for sustainable food is on a rapid rise in United Kingdom, making it one of the countries with the highest purchase for organic food; . By cooperating with systematic agricultural circuit masterplan, the overall scheme of design make use the existing industrial structure of the warehouse in which, 'Logistical Urbanism: Space for Food' become the main concept. With sustainability in mind, redesigned containers are the main drivers for food transportation from different designated agricultural hub. The warehouse is trans-formed to a smart; self-sustain agriculture hub, source of organic foods for Manchester.
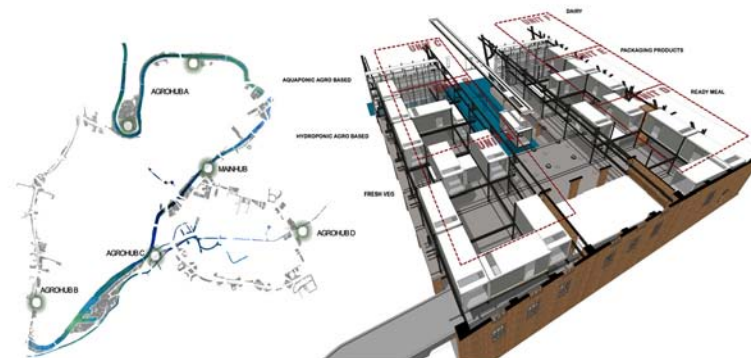

The Ignorance Archive /
Joe Harris

By removing an ignored building from the urban fabric, The Ignorance Archive seeks a way draw attention to other ignored spaces in the city. The black box provides the aparatus to make, and a home to images of these marginalised spaces, turning the ignorance on itself, thereby constructing an image of the city that is seldom seen by any one individual..
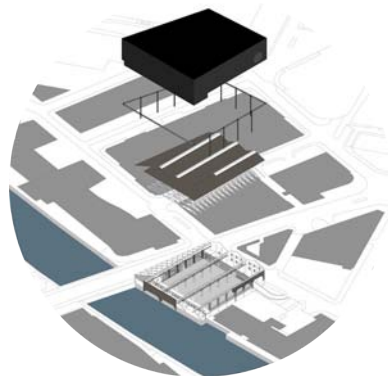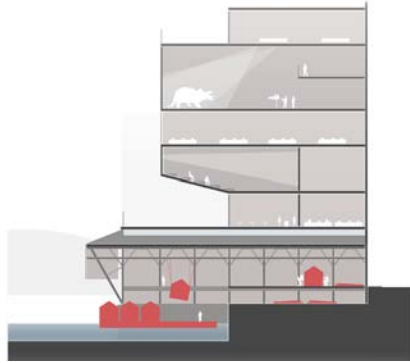
Heritage Tour Boat Terminal /
Natalie Dossor

The River Irwell was originally the life blood of the city of Manchester, carrying cotton, grain, and general goods from Liverpool to Manchester and vice versa, before the advent of rail and road freight. Focusing primarily upon the river Irwell, I intend to address its neglection, aiming to educate and inspire the people who visit Manchester to once again remember the importance of its history as a spearhead to the industrial revolution in England.
My scheme transforms the Albert shed into a ferry terminal, from which boats travel up the Irwell on a tour of all the important heritage sites along the river.
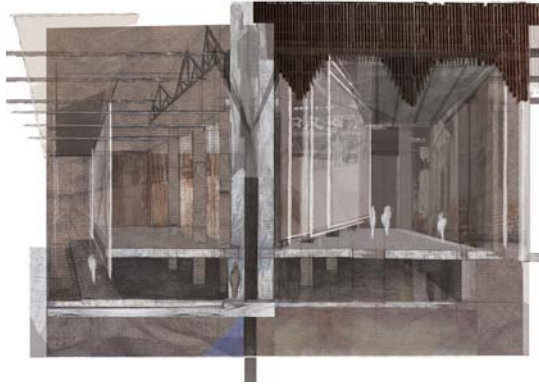
Makership /
Peter Lee

The Albert Shed will likely be demolished as part of Allied London's
St. John's masterplan, a combination of 'creative quarter' and high-end residential.
The Makership is an alternate trajectory for the warehouse, exploring reuse for modern relevancy and preservation of heritage. The site's functional loading bay is converted to a workshop whilst spaces for high-density self-build studios and residential are stacked above.
These conditions both coexist with and critique the proposed development; the site fulfills and complements the masterplan criteria, whilst providing affordable, democratised space .

## The Data Warehouse /
Sam Hall

From a materials distribution warehouse at the heart of Manchester's exporting past, to a warehouse for the distribution of data, my project aims to capture the 'genius loci' of the buildings past whilst injecting a future proof program into its existing skeleton.
The concept is to turn the existing site into a Data Centre, providing processing power for the mass migration of firms to Manchester. The heat the servers produce will be harvested and distributed to surrounding buildings, creating a hub for the potential duplication of the program resulting in district heating systems throughout Manchester.

ALTERNATE TRAJECTORY - COEXISTENCE

Atelier 1
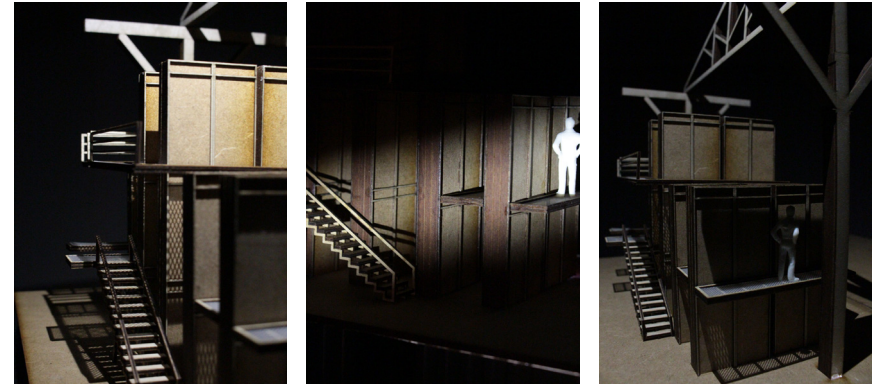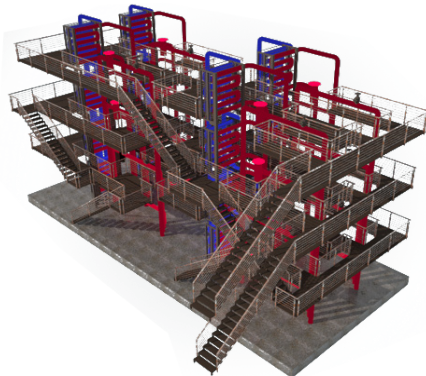
The Irwell Ballet Company / Tim Casselden

Walking across the Irwell Street Bridge into Manchester, the decaying shed hunched unobtrusively below represents another parcel of land waiting to be redeveloped. But the interior of the building retains a cavernous beauty, the still hum of the city buzzing around you and light flooding into vaulted naves: a stage demanding to be used. A catalogue of site photos has been mapped into the existing space, creating a model of intertwining walkways and dance floors springing from a new building on the Salford bank. The dance studio bridges the two cities, injecting movement into a formerly vacant landscape.
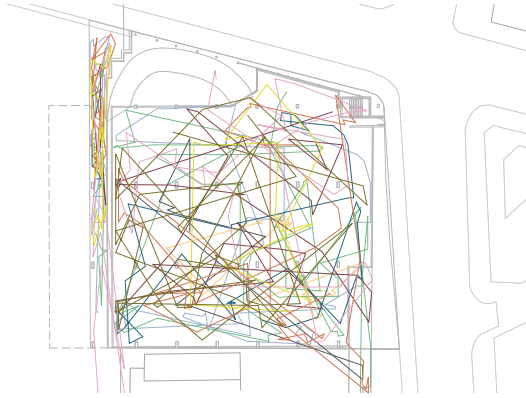
Urban Mining Manchester / Dan Kempski

Four buildings are planned to be demolished in the St John's Quarter proposal: Granada Studios Warehouse, 88 Quay Street, Quay House, and our site, Albert Warehouse. Instead of placing these wasted materials into landfill, they will instead be 'Urban Mined' - a process that carefully removes, retains and reprograms the materials into a new scheme on site: the 'Urban Auction House'.
A meticulous catalogue of materials available for reuse has been generated, in order to specify the exact relocation of components within the build - creating a pragmatic tribute to the surrounding environment they have been harvested from.

## Urban Dementia / Kamal Benissad

Developed through the medium of sketching to develop an intimate conversation with the Albert Shed, this project addresses the loss of generational memory within Manchester's industrial history. Currently suffering from urban dementia, this project seeks to understand Albert's past history, his present situation and his future capabilities to bring forgotten people together within a forgotten space.
Urban dementia is the result of a prolonged state of obsolescence that causes the building, to outlive the generation that saw it through its core cycle of use. The territorialisation of the Spinningfields area, has destabilised the identity of the Albert Shed.

The Vanity Warehouse /
Atiqah Nabilah Aidi Rosli

This project approaches a research on the beauty industry in our modern day. The word 'beauty' itself comes in various subjective forms; namely, in every work of art. The lust of beauty has manifested itself as a stagnation of a singular perspective towards perfection. Cosmetic surgery in architecture is viewed somewhat similar to how our own bodies 'live' and react towards the changes that have been made. In this case, these changes in space are perceived as 'mutations' of space. The Vanity Warehouse proposed a dichotomy of how we see cosmetics and nature and this project proposed the mortality of a building and our body ' both will eventually decay.
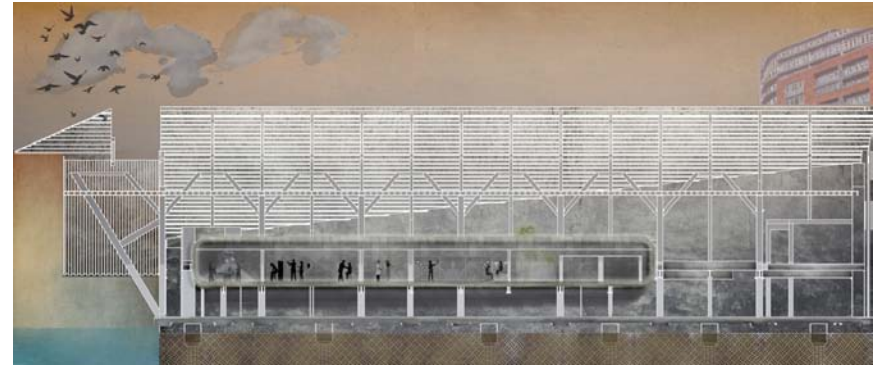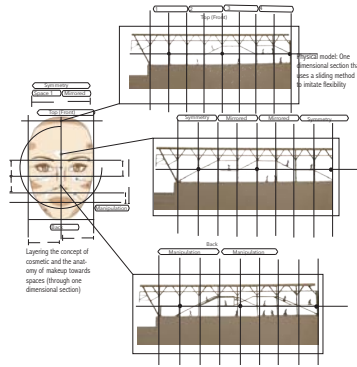

Procession of Dematerialisation /
Diana Muresan

The falling of the building towards its demolition or decay is interpreted as a procession from life to death under the typology of a crematorium. A symbol for a beginning or an end, the crematorium is intended to celebrate the dematerialisation of architecture together with the immateriality of the soul. The new minimal intervention will stand in contrast with the existing skeleton of the warehouse that will be allowed to decay and eventually transform into a ruin. A space of memory and ritual will immerse as a celebration of the river and the ephemerality of architecture.
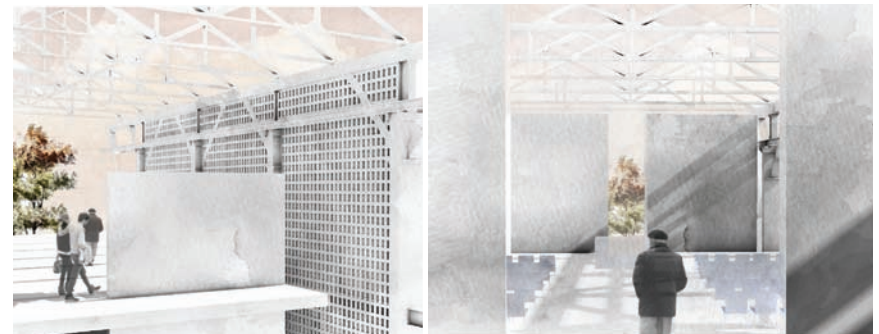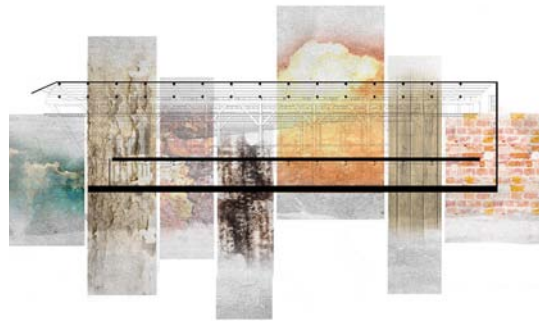
Music Powerhaus /
Zatul Hazirah bt Mohamad Khoiril

Pop music culture has been synonymous to the city of Manchester and the legacy of pop music is now carries by the young generation of Manchester. The empty warehouse has the potential of becoming a music production space due to the site quietness and also creative fields like music have enormous potential in a global digital market and can power future growth of music and regeneration of the site. The idea is to create transition of spaces of different acoustic ambience and atmospheric changes throughout the journey. This project seeks the relationship of space and sound in order to achieve desired spatial quality of spaces.
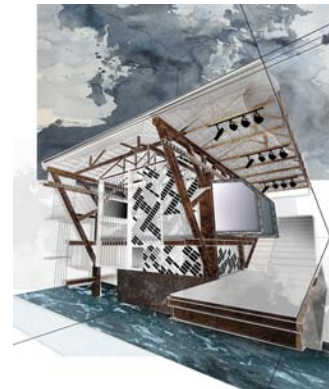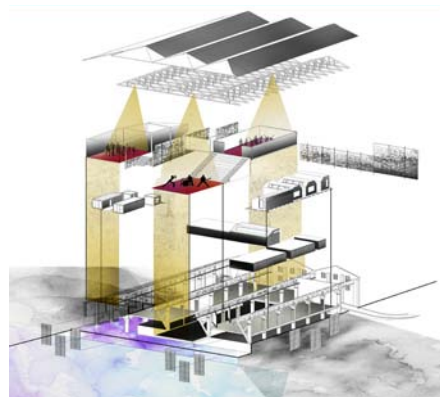
Complexity Planning & Urbanism

Ulysses Sengupta, Robert Hyde, Deljana Iossifova
Visiting lecturers: Eric Cheung, Thilo Aschmutat
Collaborators: East Manchester Regeneration Manchester City Council, Capita ESA, EON Reality,
Greater Manchester Chamber of Commerce

Complexity Planning & Urbanism (CPU) develops advanced computational methods to address accelerated planetary urbanisation. Transdisciplinary urban research builds on a complexity science theoretical framework to question existing design praxis. The research within the atelier is interdisciplinary and overlaps with Future Cities, Urban Metabolism, Smart Cities, Big Data and Open Government. It addresses diverse urban issues such as planning for cities as complex adaptive systems, participation and inclusion through direct governance, new digital platforms for resilient cities, urban morphology as socio-economic reflector and urban simulations for extrapolated future scenarios.

Complexity:
CPU uses theory from the complexity sciences to understand the relationships between different scales and components of the city. Possibilities for critical interventions emerge from an understanding of situated urban capacities and trajectories. Phenomena related to systems, self-organisation, emergence, collective intelligence and structural change form the basis for design. Top-down and bottom-up explorations of spatial patterns, urban ecologies and governance lead to proposals for alternative urban futures, consideration of loss and damage associated with climate change/ecosystem services, co-production of cities and change over time.

Urbanism:
Students are exposed to a comprehensive overview of the ways in which the city is approached in different academic disciplines. They become familiar with a broad range of fundamental and emerging theories around urban processes; they are be able to analyse and evaluate the urban condition using transdisciplinary methods and tools as well as apply relevant theories and approaches in architectural practice. Contextual investigation is encouraged through fieldwork on the ground and use of Big Data.

Computation:
The atelier acts as a digital urban laboratory developing new systemic approaches and computational methods for real world problems at both city (YR 5) and building scales (YR 6). Experimental digital design approaches are encouraged through multiple softwares, taught computer programming, interactive interfaces and digital to physical testing.

Workshops: GIS, City Engine, Advanced MAYA/ Dynamics/ Coding/ Grasshopper/

Study Trip: Student Work Presented at the Venice Architecture Biennale

Research:
http://complexurban.com/
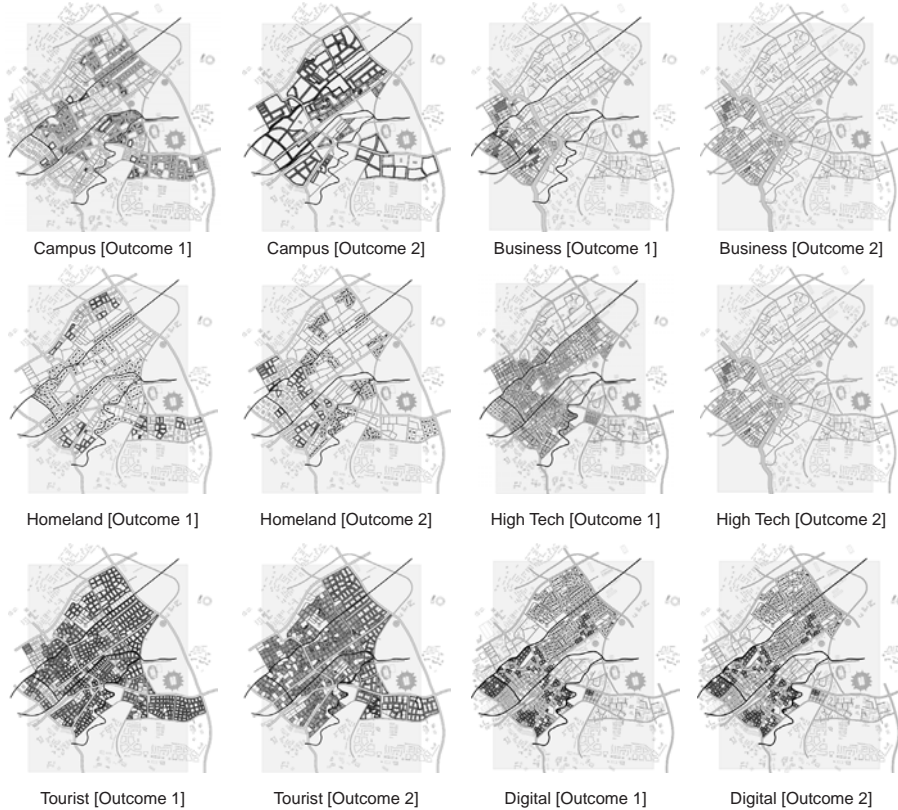
Student Work:
https://twitter.com/complexurbanism

Complexity Planning & Urbanism 2014-15:
Adeniyi Adekunle, Chai Chung, Sophie Cosgrove, Annette Davis, Paulina Kowalska, Jordon Lambert, Zhanyi Liang, Patrick Lyth,
Kyi Chaw May, Catherine McCann, Farah Mohd Jais, Chyna Sudbury, Ivana Tosheva, Matthew Walker, Larissa Weinmann, Plamena Yotova

FUTURE TRAJECTORIES OF EAST MANCHESTER

GENERATED OUTCOMES:

Campus [Outcome 1]

Campus [Outcome 2]

Business [Outcome 1]

Business [Outcome 2]

Homeland [Outcome 1]

Homeland [Outcome 2]

High Tech [Outcome 1]

High Tech [Outcome 2]

Tourist [Outcome 1]

Tourist [Outcome 2]

Digital [Outcome 1]

Digital [Outcome 2]

Generative Digital Planning - Future Urban Scenarios for East Manchester / Patrick Lyth
This project develops a new digital interactive tool to GENERATE and visualise multiple future scenarios (E.g. Campus City, High-Tech City, Tourist City, Digital City, Defensible Homeland City Etc.) for East Manchester - using Field Theory - based on identified future scenarios, desires and predictions by the Manchester City Council for 2027 and the Government Office for Science for 2040-2065. The interactive digital tool, allows the modelling of future scenarios with adaptable variables. The aim of the tool is to improve communications between national government bodies (Government Office for Science) and local government bodies (Manchester City Council, Manchester Planning Departments).

Make My Manchester: Create My Manchester / Jordan Lambert

Create My Manchester is a co-productive digital tool to allow for discussions that engage both developers and the community in the design process. It uses the design consultation to enable stakeholders to reconfigure a scheme with predefined building typologies to achieve a more appropriate outcome.

The user moves coloured disks on a physical map, each liked to a typology to re-plan the site. This then projects an augmented view of the newly designed scheme onto a screen. The tool utilises the statistical requirements of the developer: the number of dwellings and/or units per hectare allowing only for schemes that satisfy this figure to be created as an outcome. This process enables everyone involved in future planning to understand changes to a scheme in a responsive and vidual environment.

Make My Manchester was an earlier online game created as a live interface for all stakeholders in an area to constantly negotiate the future of their area, using one change per day. The aim was to create a contested field for negotiation.
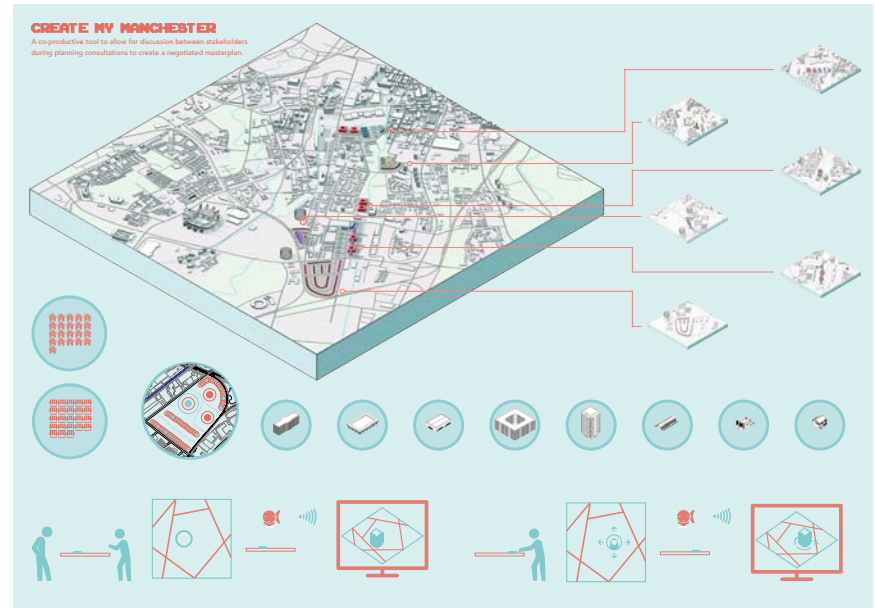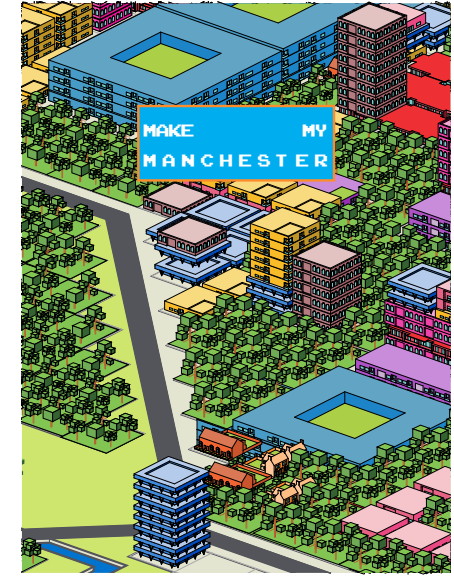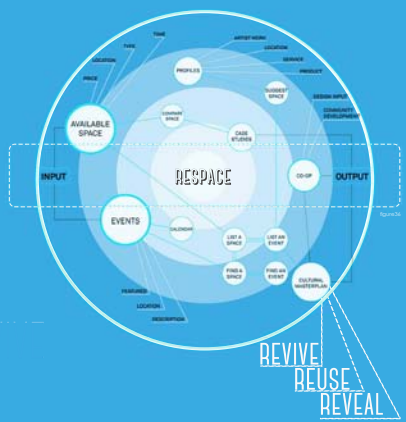
07
INPUT AND DESIRED OUTPUTS

the diagrams represents the systems of the app. with our attempt to progress the tool in keeping with the core ideas of deep democracy whilst incorporating aspects of our other readings. the idea is to have cyclical input and output.
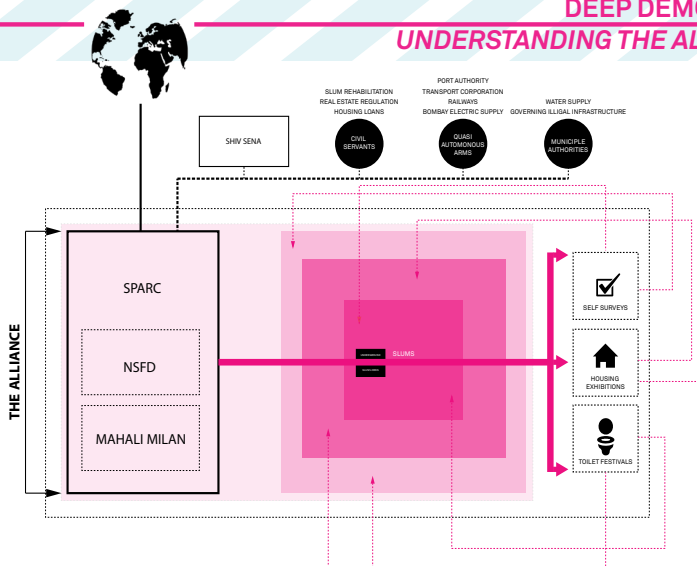
the overall outcome aim is **reuse** the vacant spaces, **revive** abandoned buildings invigorating the area with new culture and **reveal** hidden aspects that have been there all along but drawn out through the tool. one of the outputs are newly established artists who then input their information profiles and newly formed networks (coops and collaborations) onto the site.

our philosophy is not about the physical rebuilding of the city to make change, but instead it is about **recognising, seeding and amplifying** a native condition already latent in manchester. [art].
we want to merge minimal infrastructure alteration with spontaneity and an element of serendipity to renew an ageing part of the city, cultivating new activity and life in the area.

reciprocity: the notion that not only do we construct our built environments, but they also shape us and our relationships with one another.

**REVIVE
REUSE
REVEAL**

RESPACE

INPUT — OUTPUT

AVAILABLE SPACE / PROFILES / CASE STUDIES / CO-OP / EVENTS / CALENDAR / LIST A SPACE / LIST AN EVENT / FIND A SPACE / FIND AN EVENT / CULTURAL MASTERPLAN

DEEP DEMOCRACY
UNDERSTANDING THE ALLIANCE

THE ALLIANCE

SHIV SENA

SPARC
NSFD
MAHALI MILAN

SLUMS

SLUM REHABILITATION
REAL ESTATE REGULATION
HOUSING LOANS
CIVIL SERVANTS

PORT AUTHORITY
TRANSPORT CORPORATION
RAILWAYS
BOMBAY ELECTRIC SUPPLY
QUASI AUTONOMOUS ARMS

WATER SUPPLY
GOVERNING ILLEGAL INFRASTRUCTURE
MUNICIPLE AUTHORITIES

SELF SURVEYS
HOUSING EXHIBITIONS
TOILET FESTIVALS

Revive Reuse Reveal / Sophie Cosgrove, Chyna Sudbury, Annette Naomi Anneli Davis

A web based project that references 'Deep Democracy' to address conditions of long term reuse, redundancy and community establishment in East Manchester, with a focus on underused buildings and social networks.

EMAPP /
Paulina Kowalska, Plamena Yotova, Matthew Walker

This digital tool that aims to activate individual investments on a smaller scale and intensify the fields in-between the big developments in East Manchester. It serves to support both local community planning activities that are under-represented and the smaller investors by demonstrating planning and price trends over time.
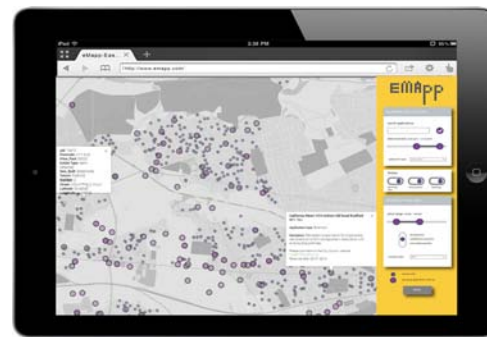
Work.Live.Play /
Catherine Mccann, Chai-Yun Chung, Kim May

The digital tool proposes a combined platform for; government funded sporting facilities including, their activities and/or classes available, and informal empty spaces around East Manchester that could be used for sporting activities. The tool allows users to book these facilities, join local teams or clubs, socially interact with one another, chat and buddy up on group or paired sports. Our three primary desired sustainable outcomes are; improved individual well-being of East Manchester residents, social inclusion, crossing geographical ward boundaries with a ranging variety of users, despite backgrounds, gender, age, fitness levels Etc and data driven future development proposals from the council; using the information generated from this digital tool influencing urban and spatial change, in the context of large-scale regeneration in East Manchester.
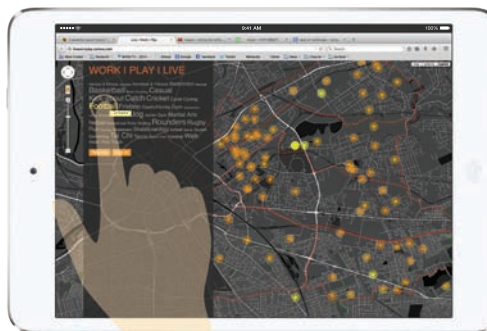
Drop EM There /
Larissa Weinmann, Ivana Tosheva, Adeniyi Adekunle

This digital tool takes the form of a new journey planner. The journeys can be planned based on speed, cost and environmental impact. Over each month, users can look at their patterns of use and make informed changes. Over a year, the whole city becomes a green (sustainable) and red (high CO2) network diagram clarifying the need for changes to public transport provision when a green livable city is the future aim.

DROP 'EM THERE

Atelier 2

Resilient Network Topologies - Piccadilly Train Station Manchester 2050 / Ivana Tosheva

This project examines the future adaptation of Manchester Piccadilly station in the context of forthcoming changes to the station and East Manchester. By 2032 the new High Speed 2 (HS2) railway service will bring about a significant increase in the number of trains arriving at Manchester Piccadilly. By 2050 this number could double due to knock-on developments in East Manchester. The project uses a deep understanding of network graph theory to develop computational networks for the analysis of the current and future iterations of the station as a connector between multiple transit systems. The project maps the network topologies of the current station, the HS2 adaptation and multiple future outcomes based on efficiency and resilience. The ultimate aim is to inform adaptations for the future iterations of the station.

Urbanism Indicators / Farah Mohd Jais, Zhanyi Liang, Shahrol Ahmad Shuhaini Sahlin

The project uses an urban metabolism approach to map and display multiple layers of urban data across East Manchester in a web-based tool. These indicators demonstrate various types of urban information for each gridded location, including energy use, land cover, public transport connectivity, Etc. Each tile is designed as an overlay so the data becomes comparable to the form of the built environment underneath.

The tool uses historical and current datasets, allowing users to scroll through a hundred years of information, which provides a high level of cognition regarding the historic morphology of the city in terms of urban form morphology and the chosen urban indicators at the same time. This also allows the identification of larger patterns of change and micro-trends per tile, in order to inform future decision making.

The prototype was demonstrated online and new datasets can be added to create a customised tool for planners and designers.
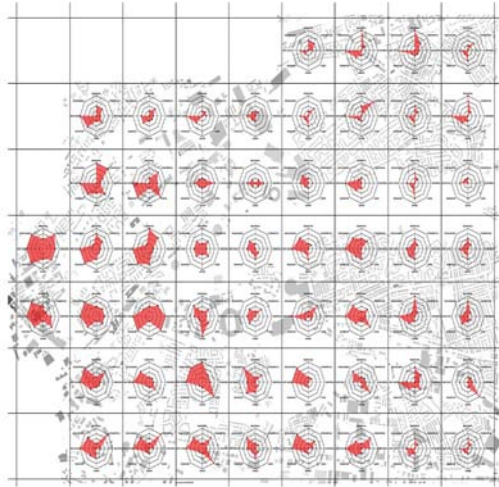

Map of indicators for each grid

Opposite page:
The Learning Stack / Matthew Walker

The Learning Stack is a generative building type pro-posal containing learning, teaching, I.T. and community hall spaces for deployment in multiple and different sites around East Manchester. Using the technique of branding, each Learning Stack is instantly recognisable and familiar. The purpose of the building is to tackle computer illiteracy and provide public community facili-ties in East Manchester.

Using a node based computational method, the Learning Stack tool is scripted with mathematics and logic, creating the rules for spatial configurations, spatial proportions, structural systems and skin system. This al-lows the building to be generated instantly, fully adapting to any site context, taking into account, plot shape and dimensions, surrounding building heights, solar orienta-tion and numbers of surrounding facilities.

As a result the tool can be used at any point in the future to create additional facilities in different locations, maintaining the design rules set out for the building.

HOLT TOWN
East Manchester

CLAYTON
East Manchester

NEW ISLINGTON
East Manchester
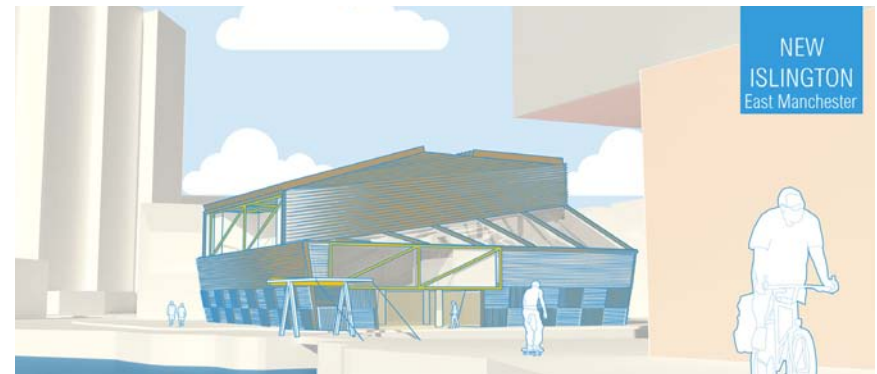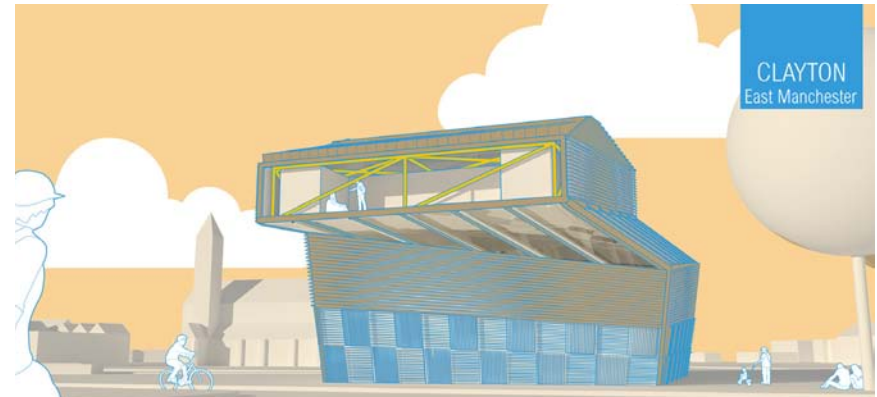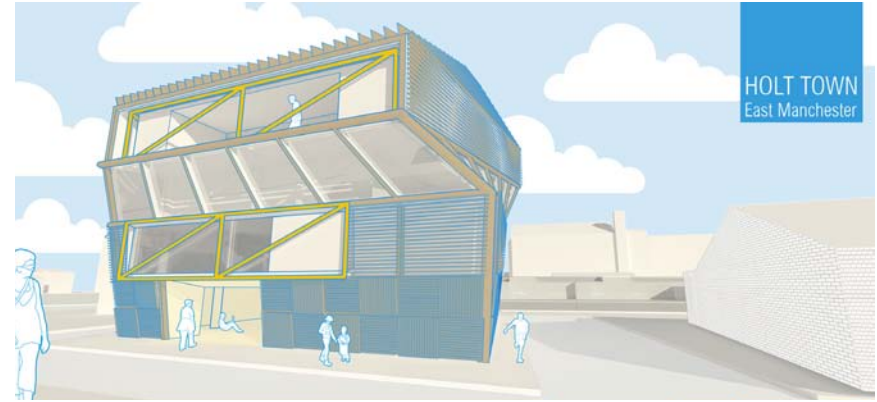
Continuity in Architecture

Sally Stone, John Lee, Steve McCusker, Gary Colleran, Dominic Roberts, David Cox.

The re-use of any architectural site, whether it be cleared and empty or still possessing the elements of previous occupation, creates a direct connection with the past. Adaptation of the existing situation is a strategy that establishes an explicit relationship with history and context, not just of the building and its immediate surroundings, but also with the society that constructed it. The reading of a building or site can uncover a layered and stratified narrative. The understanding of the inherent qualities and conditions of building or site can provide clues to the redesign of place. This knowledge can be used to activate, liberate and instigate a new future for the situation. Kenneth Frampton, talks about the need for architecture to have the 'capacity to condense the artistic potential of the region while reinterpreting cultural influences coming from the outside', for building to show a great understanding of both place and tectonics to 'evoke the oneiric essence of the site, together with the inescapable materiality of building'.

On Retaining Walls
Architecture is the mediator between the City and the Room. An act of translation occurs at the point where the outside meets the inside. The wall combined with the window, door or threshold transforms the nature of the exterior and moderates it to accommodate the interior. When viewed from the hostile environment of the outside, the interior can possess qualities that are perhaps ethereal, enchanting or reassuring. Imagine a crowd gathering in the town, the quality of the light in the streets, the coldness of the damp and windswept spaces, look through those twinkling windows of the enclosing buildings, what would be happening in these spaces?

A Sword Decorated with Myrtle Leaves
This year we pursued projects in two locations, one at home, the other away. The Sixth Year investigated the city of Granada in Southern Spain; a city situated below the imposing palaces of the Alhambra, on the confluence of four rivers at the foot of the permanently white-topped Sierra Nevada mountains.

The Fifth Year project was situated in the Victorian seaside town of Colwyn Bay, a conurbation compressed between the steeply sloping Pwllycrochan Woods and massive transport and infrastructural links, which effectively cut the town off from the beach and therefore the sea.

'I like to confer nobility on an interior, make sure that no window, door or sequence is taken for granted. Knowing how to construct space is fundamental. Sometimes positioning a wall at an angle is enough to capture and reflect more light. You can bring tension into an environment simply by adding something 'out of scale' like a door that's bigger than all the others in the same room. You might draw attention to a door or window frame, or enhance the relationship with the exterior by inserting a carefully designed window. This is what nobility means to me: non-obviousness, care over detail, intelligent economy.'

Umberto Riva

Continuity in Architecture Students 2014-15:

Year 6: Laura Baker, Sarah Capper, Adrian Coelho, Helen Cross, Michael Crozier, Tom Dewey, Joe Fowler, Holly Hadfield, Laura Hayes, Adam Jones, David Rhys Jones, Bryony Lee, Paschalia Paschali, Viet Pham Tuan, Samuel Rutter, Zain Toma

Year 5: Sam Beddingfield, Hannah Bellerby, Suzanne Coong, Kristian James, Jana Kefurtova, Doug Meadway, Raluca Pop, Bryony Preston, Ketil Rage, Dragos Silaghi, Alexandru Trofin, Katherine Valentine
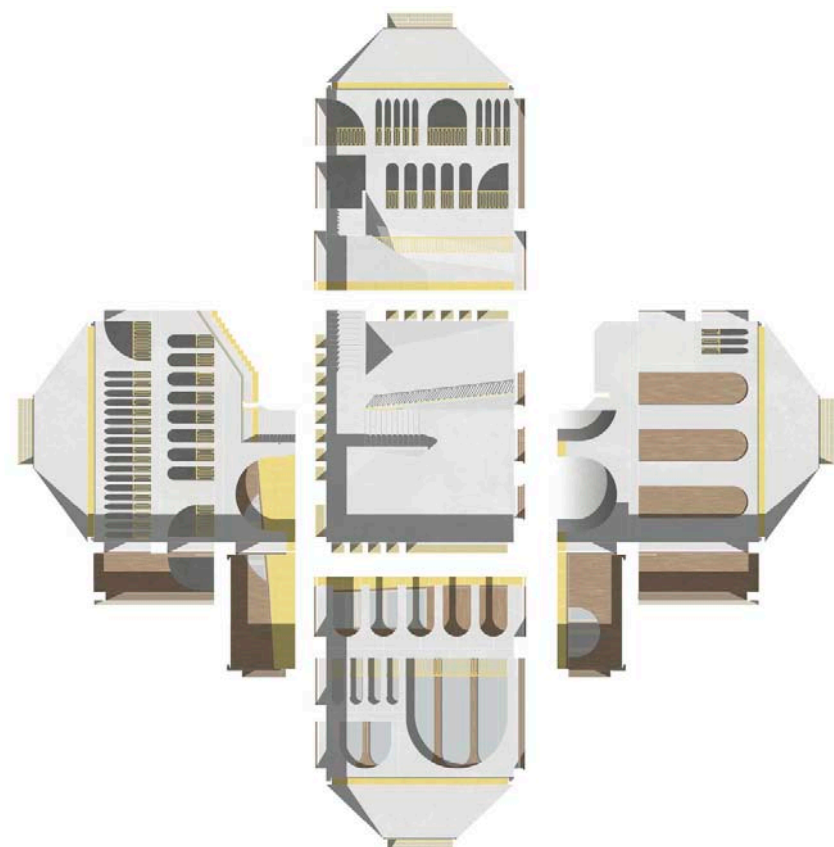
Right: Colwyn Bay Community Station /
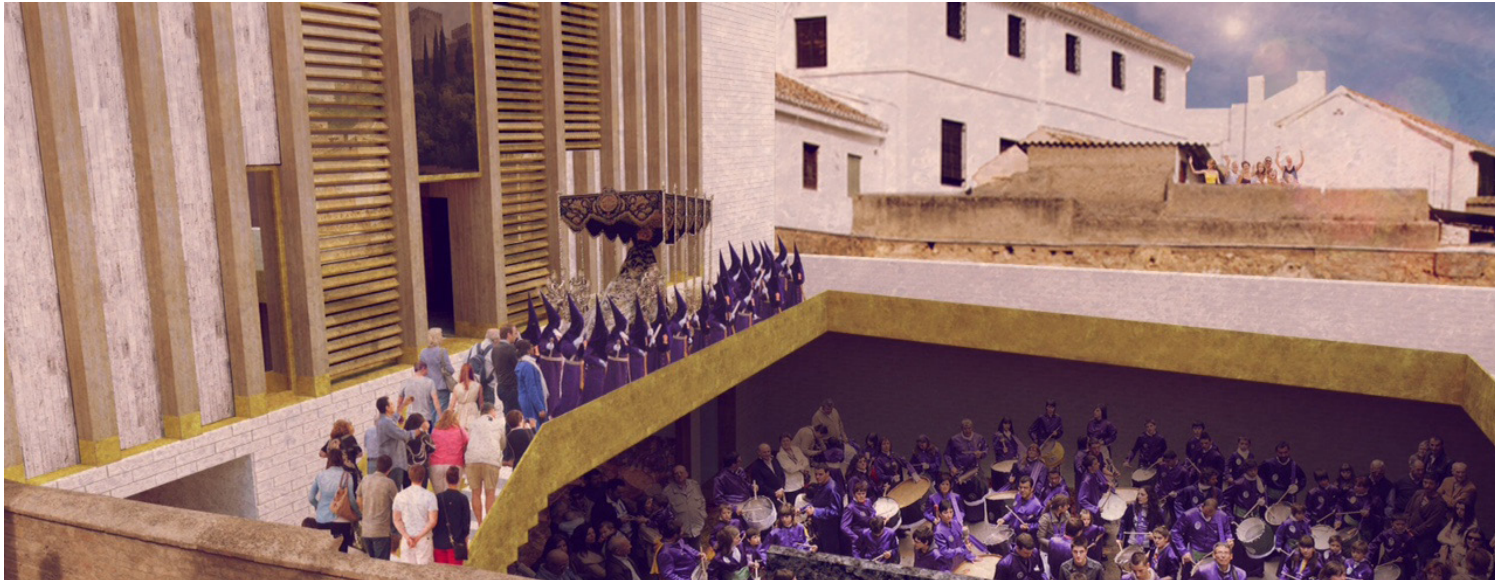Douglas Meadway
Left: The Meadowns / Ketil Rage

Atelier 3

Top: Centre for Craft and Design /
Sarah Capper
Bottom: The Archaeological Museum
of Granada / Sam Rutter

Opposite page:
Top: Work and Play, An Ageing Com-
munity Centre / David Jones
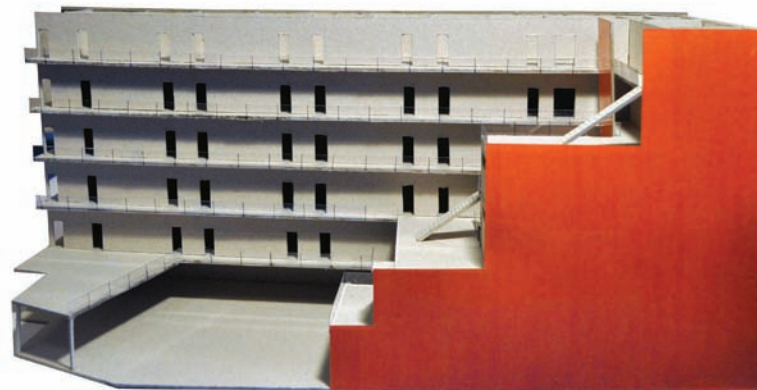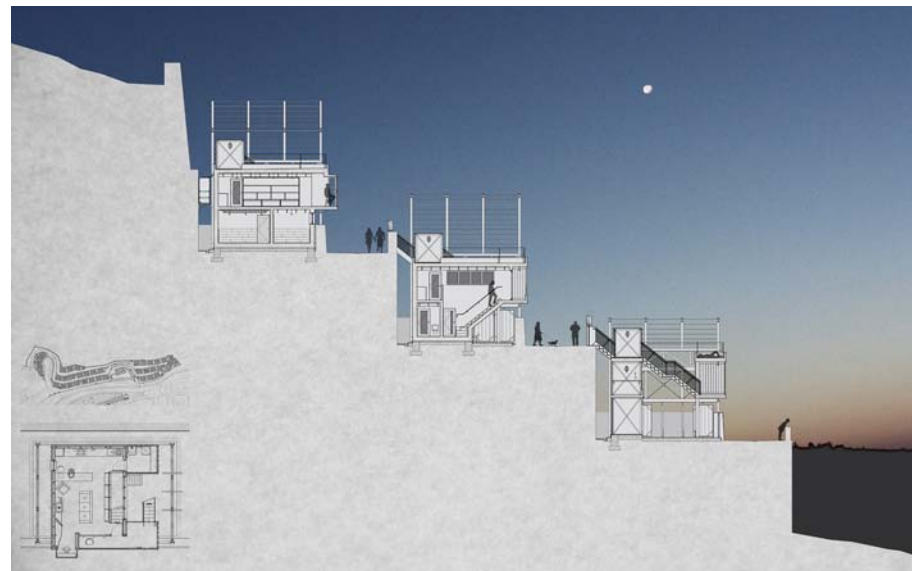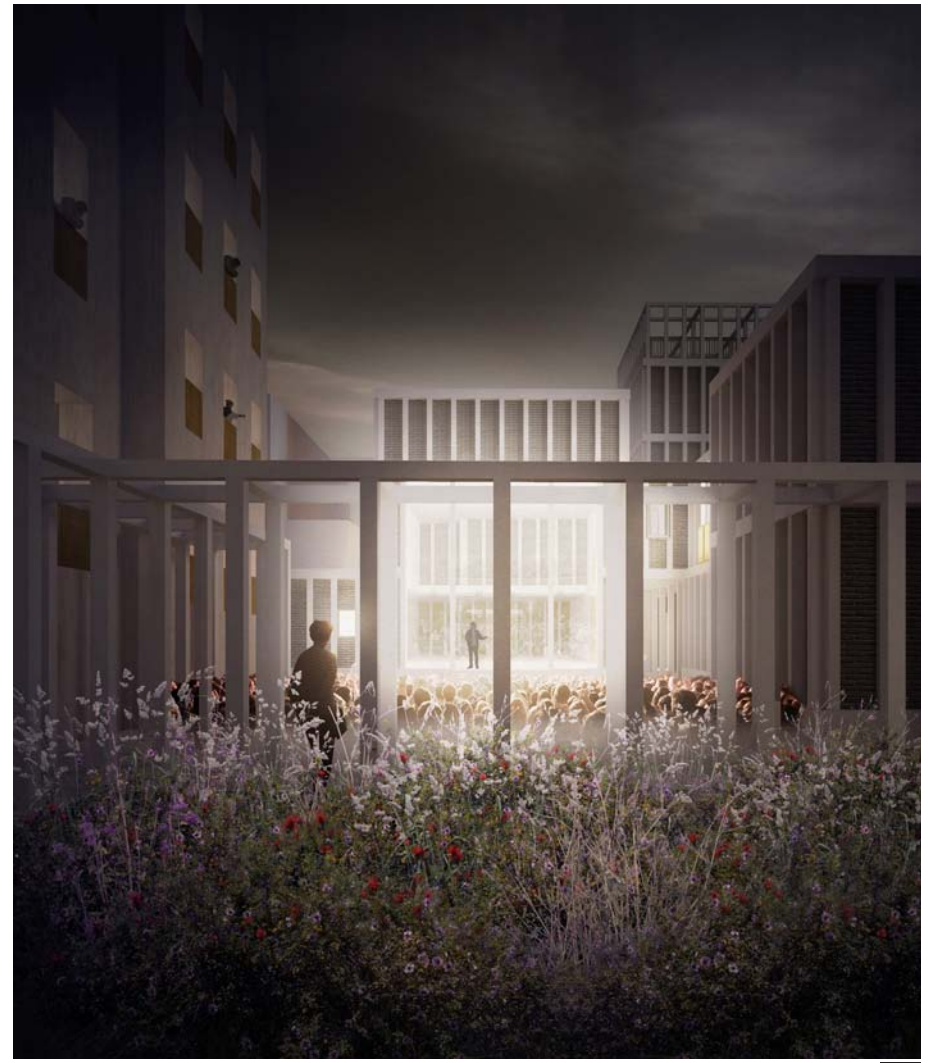Bottom: El Defensor Theatre / Adrian
Coelho

Atelier 3

Atelier 3

David Jones

The Living Archive / Laura Baker
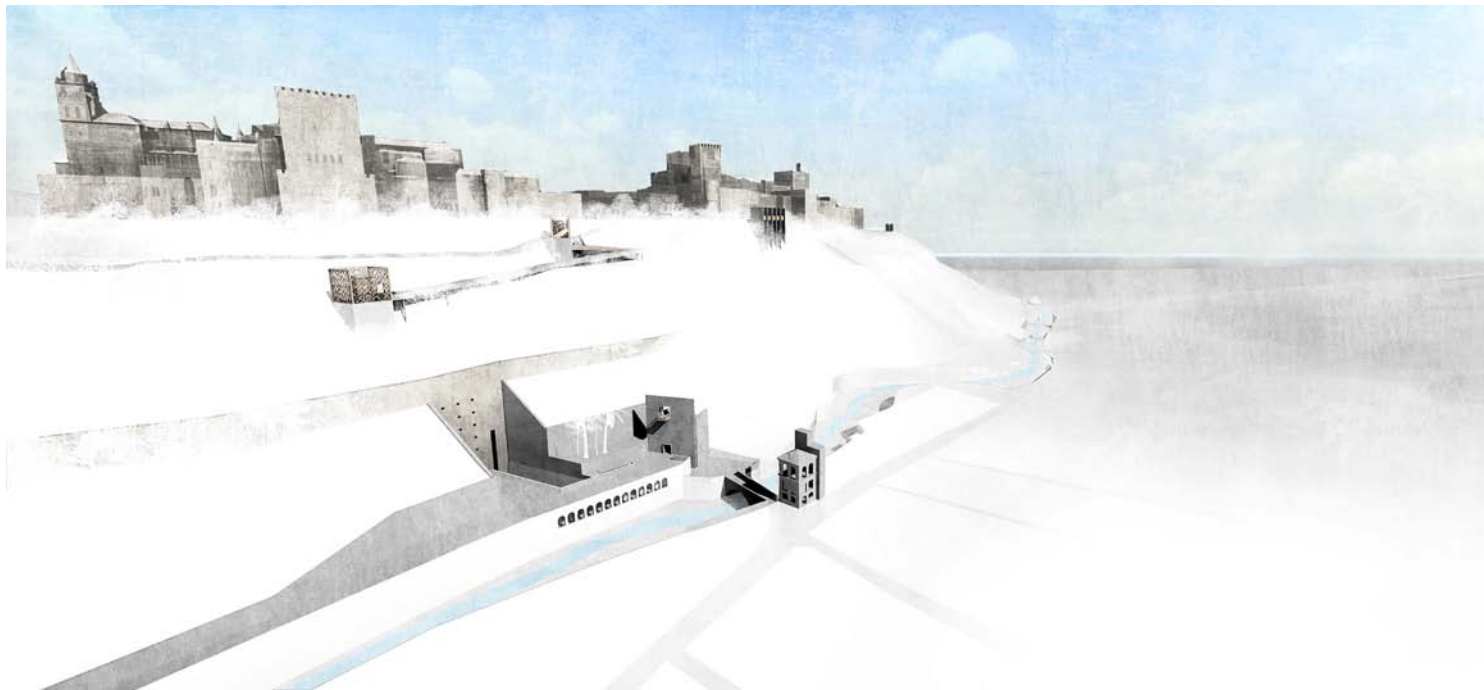Theology Academy / Zain Toma

Top: Casas D'Alhambra / Joe Fowler
Bottom: Motorcycle Haven / Laura Hayes
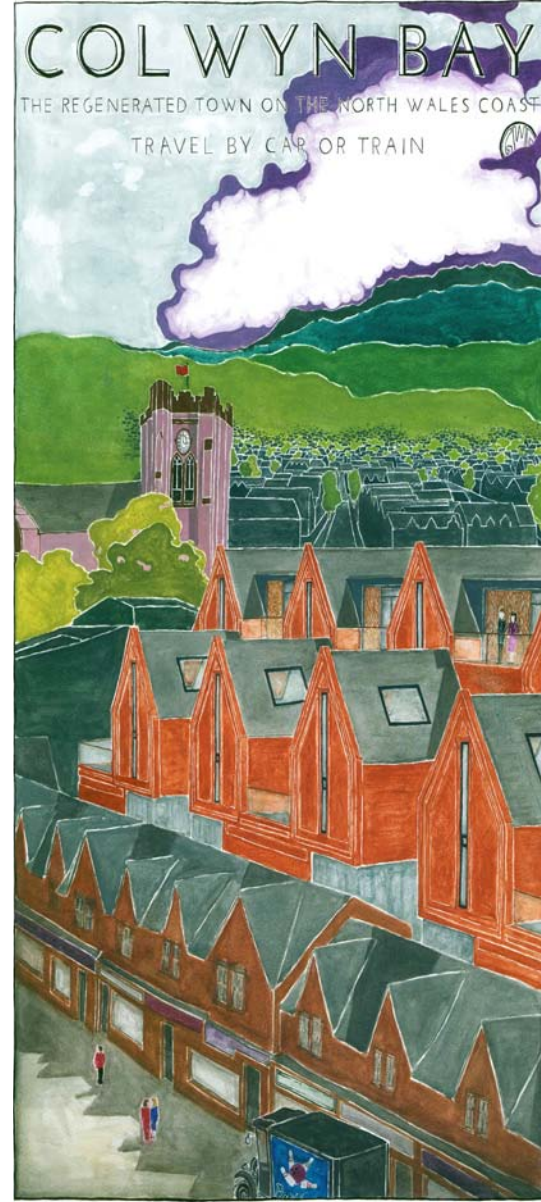
Atelier 3

Centro para las Artes de Flamenco / Bryony Lee

Institute For Rhetoric / Adam Jones

Atelier 3

COLWYN BAY
THE REGENERATED TOWN ON THE NORTH WALES COAST
TRAVEL BY CAR OR TRAIN

Atelier 3

Colwyn Bay Conservatorium / Kristian James
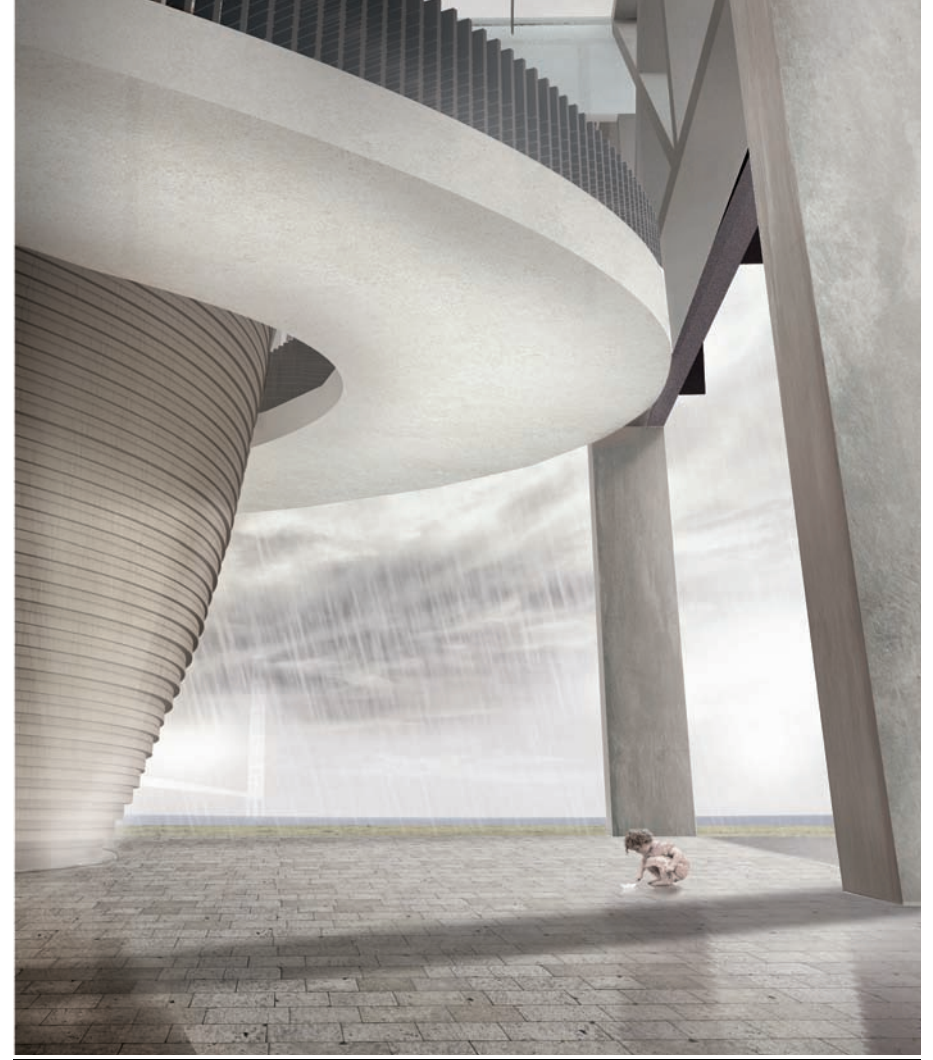
A Place for British Summer Time / Sam Beddingfield

Atelier 3

Acoustic Panels for Colwyn Bay
Academy of Dramatic Arts /
Hannah Bellerby

Colwyn Bay Boutique Hotel /
Raluca Pop

The Agricultural Laboratory /
Suzanne Coong

The Puppeteers Workshop /
Bryony Preston

Atelier 3

Intimate Cities

Rick Dargavel, Amy Hanley, Stephen Connah.

We have explored formal and informal modes of exchange in the public space of the city, its streets, squares and alleyways, and their potential for programmatic co-relationships. Modes of exchange are subject to social, economic and political circumstances. We have explored how these differing conditions might overlap and refigure the shared space and networks of the city. The post-industrial city or city of late capitalism requires us to reimagine a zeitgeist for the contemporary city. Notions of pleasure, freedom and body-space-time relations are now important issues with regard to the right to and desire for the urban. We have explored these issues at the micro scale of everyday human practices and at the urban scale through hybrid architectural programmes.

Hybrid architectural programmes exist by design, by evolution and by accident. Typologies such as markets act as both anchors and magnets for social and economic exchange. Former industrial sites such as La Friche Belle de Mai in Marseille mixes public, educational, ecological and commercial interests around a creative theme. Chungking Mansions in Hong Kong evolved as a vertical stack of legal and transgressive services. It might also be possible for the instrumental or infrastructural such as water or waste to unite or generate disparate programmes within a sustainable theme.

Our studio practice placed an emphasis on intimate on-site observation, recording and representation as a foundation for architectural imaginaries to be developed. We encouraged physical modelling at all scales from the conceptual maquette to the phenomenal experience of space.

Intimate Cities student 2014-15:

Jawaher Alabdullah, Foteini Alympaki, Isobel Blacklock, Alastair Clarke, Anwar Bin Fader, Muhammad Afiq Abd Halim, Melissa Haniff, Amaobi Ike, Gennai Kamata, Joseph Kelly, Aidi Affendi Kusim, Varvara Lazaridou, Michele Chui Yee Lim, Alexander Martin, Maria Mavronikola, Christopher Meng Yee Murray, Iraklida Nikolaou, Carmelia Paramasivan, Alexandros Pavlides, Nurfatinah Binti Mohd Rashidee, Ahmadkhairul Sabirin Ahmad Rosli, Saidatul Syahirah Binti Shazri, Chu Huan Tan, Chris Trundle, Kate Williams, Shuheng Xu, Tengku Inda Syazwi Binti Tengku Zubir

This project introduces the idea of 'THIRD PLACE' - a social surrounding separate from the home (first place) and work space (second place) adjacent to the economic hub of Manchester, Spinningfields. Third places host the regular, voluntary, informal, and happily anticipated gatherings of individuals beyond the realms of home and work. This project introduces this idea of 'Third Place' as a mediator between home and work.

The aim of the thesis is to help make an urban future more livable, workable and sustainable. It makes better use of resources and connectivity and makes cities more interesting. Urban Pleasure Prototypes is the building where all analysis will take place in order to find areas where the density of people is low and provide solutions and test them inside the building before being moved to the specific site.

REaCT Node /
Joseph Kelly

REaCT Node is a live-in and self-sustaining research centre for students of the Renewable Energy and Clean Technology (REaCT) MSc course at University of Manchester that will investigate and develop the emerging air-hydroelectric technology, also known as 'cloud power'.
Maintaining the current route through the site, the building creates a new and adaptable public square that parades the power of the water cycle of a human and usable scale.

Atelier 4

One to One Workshop offers moments of engagement and opportunity throughout the city. These aim to identify expose and explain the processes that shape the urban environment through the construction of temporary, in-situ representations of planning proposals. The project breaks the passive, public perception of the city as a fixed entity into a temporary, fluctuating assemblage of human scale elements that afford appropriation and adaption.

Atelier 4

The Light Therapy for Circadian Rhythm Alignment / Alastair Clarke

The Light Therapy for Circadian Rhythm Alignment project consists of 4 artificially lit towers with transitioning light intensity and colour that mimics the changing light of the day, spaced out at 3 hour intervals, allowing visitors to more easily set their circadian rhythms to one that suits a more 24-hour lifestyle.


The Light Therapy for Circadian Rhythm Alignment / Alastair Clarke

Atelier 4
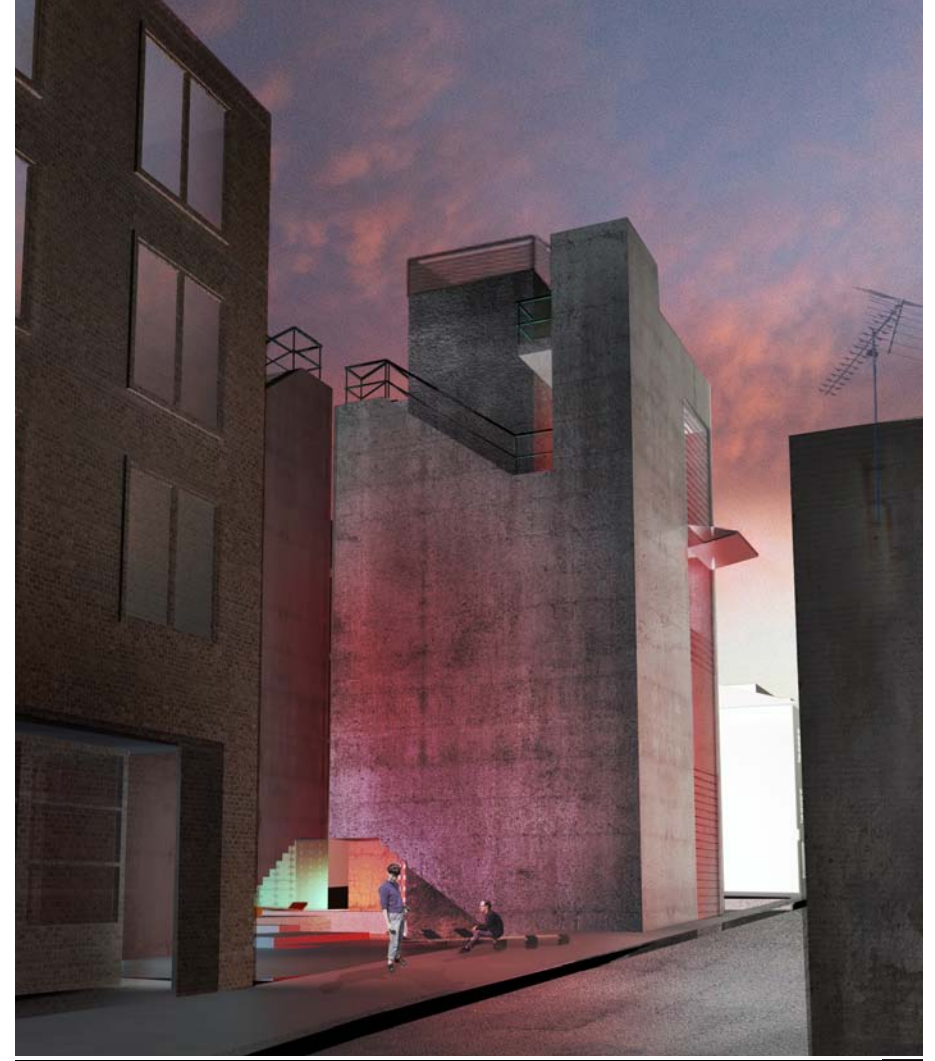
Under the Sky, into the Earth / Jawaher Alabdulla

The site verticality, the spiritual connection to the sky by channeling light from top to bottom, framed sky views, complexity and visual richness... these are basic concepts that inspired the design form in order to reach an excitement that can hold people s interest, to reach the shocking disruptive pleasure (jouissance).
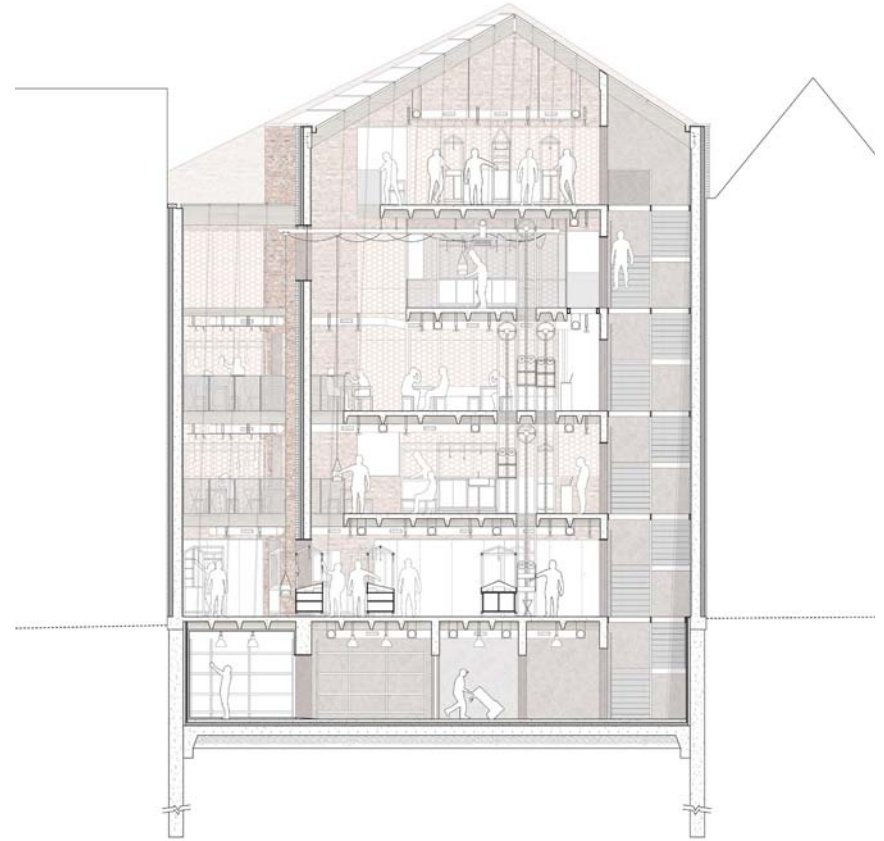

The Open Kitchen / Chris Meng Yee Murray

The project explored the residual streets of the Manchester City centre focusing on the theme of food and its lack of social stimulus in the generic streets of today. The scheme proposed a food market and a variety of kitchens organised around a porous covered street, which was designed to allow the sensory stimuli of eating, buying and cooking food to enliven the social experience of the street.

Cathedral of Commodity / Alex Martin

A project reinterpreting the Victorian Arcade to provide a new pleasurable porous urban link in an historic block, snaring those who enter into a miniature world of seduction and desire. The architecture acts as a masque in the glorification of the commodity and the provision of a realm of excess.
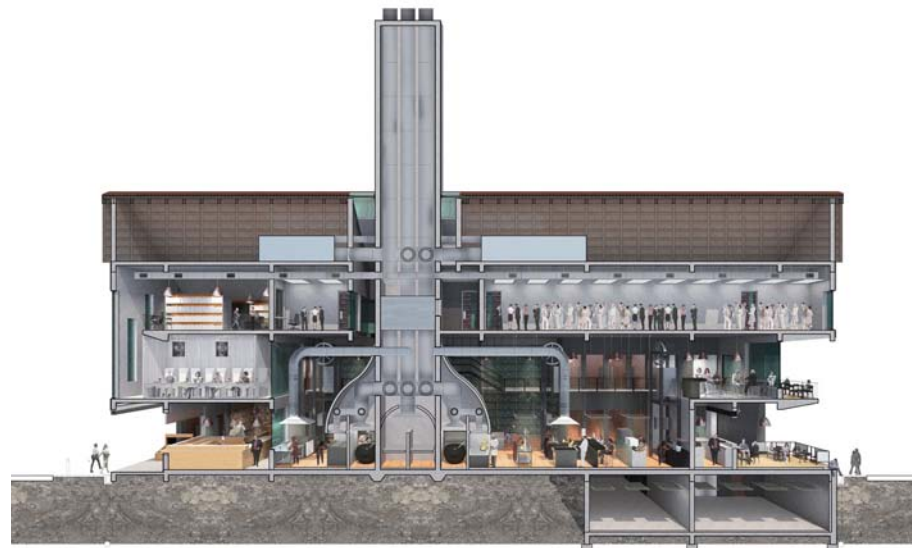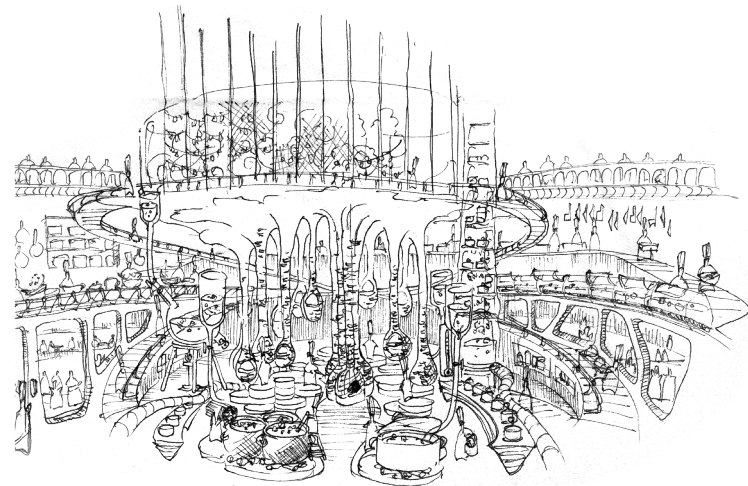
Empire Gastronomy / Tengku Inda Syazwi Binti Tengku Zubir

The space of food is all around us. The presence of food often generates a feeling of intimacy, sometimes for just a short time, and even before we eat: a lunch truck at the side of the road, a picnic spread out on a blanket. While the space of food is a significant part of the private domestic realm, Empire Gastronomy focuses on the public spaces of food that makes up so much of the contemporary streetscape. It explores the emergence and modification of a variety of such spaces.

[Re-Map] 1090

Richard Brook, Tom Jefferies, Vik Kaushal, Luca Csepely-Knorr, Dragana Opacic-WIlkinson.

[Re_Map] is short for 'representation' and 'mapping'. The atelier has been working in the areas of landscape urbanism and mapping for the last 7 years and each year we use data and map based techniques to understand and develop critical positions to a given place. In 2014-15 we investigated Runcorn. We looked at the idea of the planned town in England, from early factory towns to the last wave of the post-war New Town programme. Recently the Wolfson Economics Prize brought the issue of 'Garden Cities' to the attention of the public and policy makers. The challenge for students within the atelier was to find and test the parameters of New Town for now and the future. We used an existing New Town as our study area to understand the thinking of the recent past, the heroic failures and surprising successes of the programme.

To form a comparison we travelled to Budapest and worked with the Landscape Architects at the Corvinus University to make studies and design interventions for post-war mass housing schemes on the edge of the city.

Working in groups YR5 and YR6 students explored Runcorn's political, social, economic, cultural, geographic and morphological conditions using innovative mapping techniques developed through the [Re_Map] atelier. The mapping and representation of data fields was used to explore the latent conditions of the Runcorn and the global-polis to develop thesis questions around the idea of infrastructural architectures and urban experimentation.

YR5 students examined policy and rule based design for housing masterplans in the UK and logically extrapolated these to their illogical extremes using an existing modular system developed by Laing O'Rourke. We worked with Laing O'Rourke and Arup Associates to develop exciting responses to existing techno-political situations. Following initial research, analysis and synthesis, YR6 thesis projects have looked at the urban-rural divide, the UK housing shortage, innovative assembly and new construction methods, coexistence and community, the [re]production of heritage, energy recovery, mobility and consumption and post-industrial voidscapes. The projects capitalised upon the idea of Runcorn as an experimental test-bed, what happens when the New Town is old?

[Re-map] Students year 2014-2015:

Year 6:
Dayang Maamon, Hajir Alttahir, Ameya Bhusari, Patrick Cronin, Henry Faulkner, Matthew Grindey, Orestis Kyriakides, Yimeng Lin, Jonathan Ng, Constantinos Papaioannou, Ben Robinson, Kentaroh Tsusi, Gary Whitechurch, Xuyi Wu

Year 5:
Christina Cox, Abigail Dixon, Jack Hughes, Alexia Koumna, Heather Mason, Irina Nikova, Vanja Obajdin, Michael Orengo, Jeanne Pang, Aglika Petrova, Kleanthis Rousos, Matt T.A. Smith
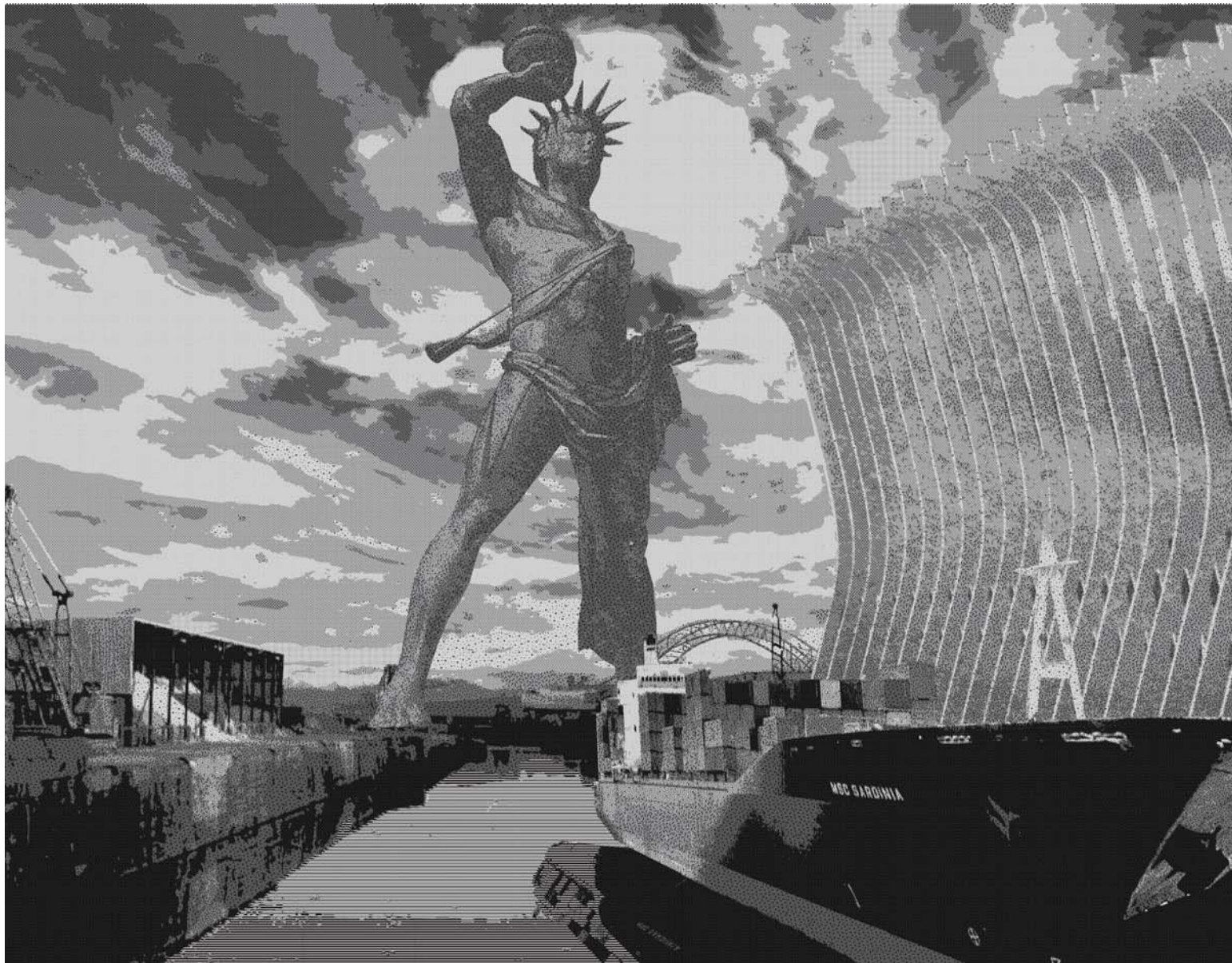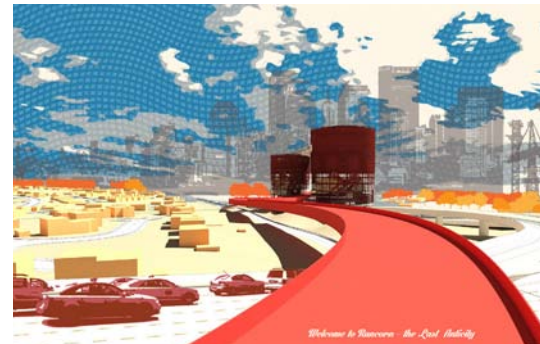
**Subversive Infrastructure /
Matthew Grindey**

A new-new town centre combined with a new type of motorway service station and international airport check in lounge.

**R for Reversed - ReRuncorn /
Yimeng Lin**

A microcosmic reimagination of Runcorn as a multi-platform leisure destination and new city.

After Utopia / Kentaroh Tsuji

The controlled decay and re-use of Runcorn's symbol of modern consumption - Shoppingcity - as a site for unsanctioned play.

Atelier 5

An infrastructure for constructional liveliehoods /
Patrick Cronin

Project based in Ecuador to facilitate the bottom up construction of
essential facilities in an informal settlement.

Runcorn: Not too old, not too new /
Constantinos Papaioannou

A factory for the renewal of new towns to constantly recycle old
homes and ensure that no building in Runcorn is ever older than 29
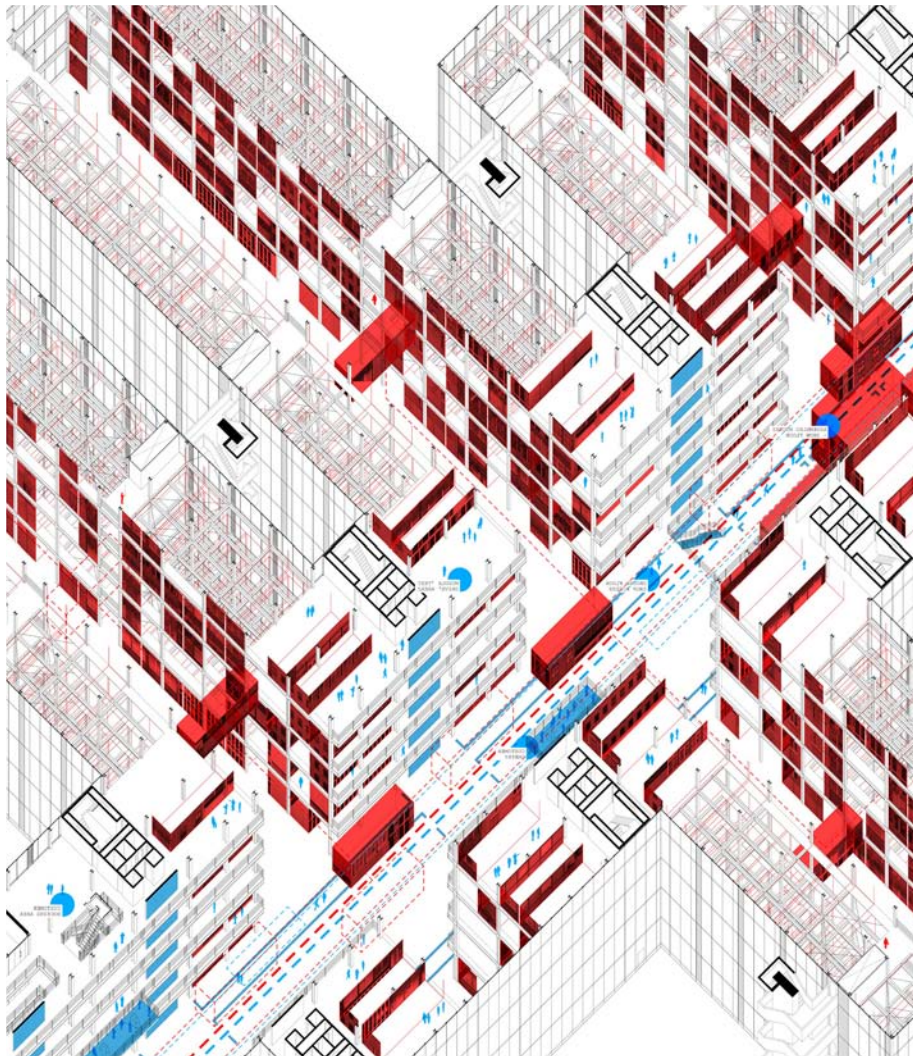years and 364 days.

Atelier 5
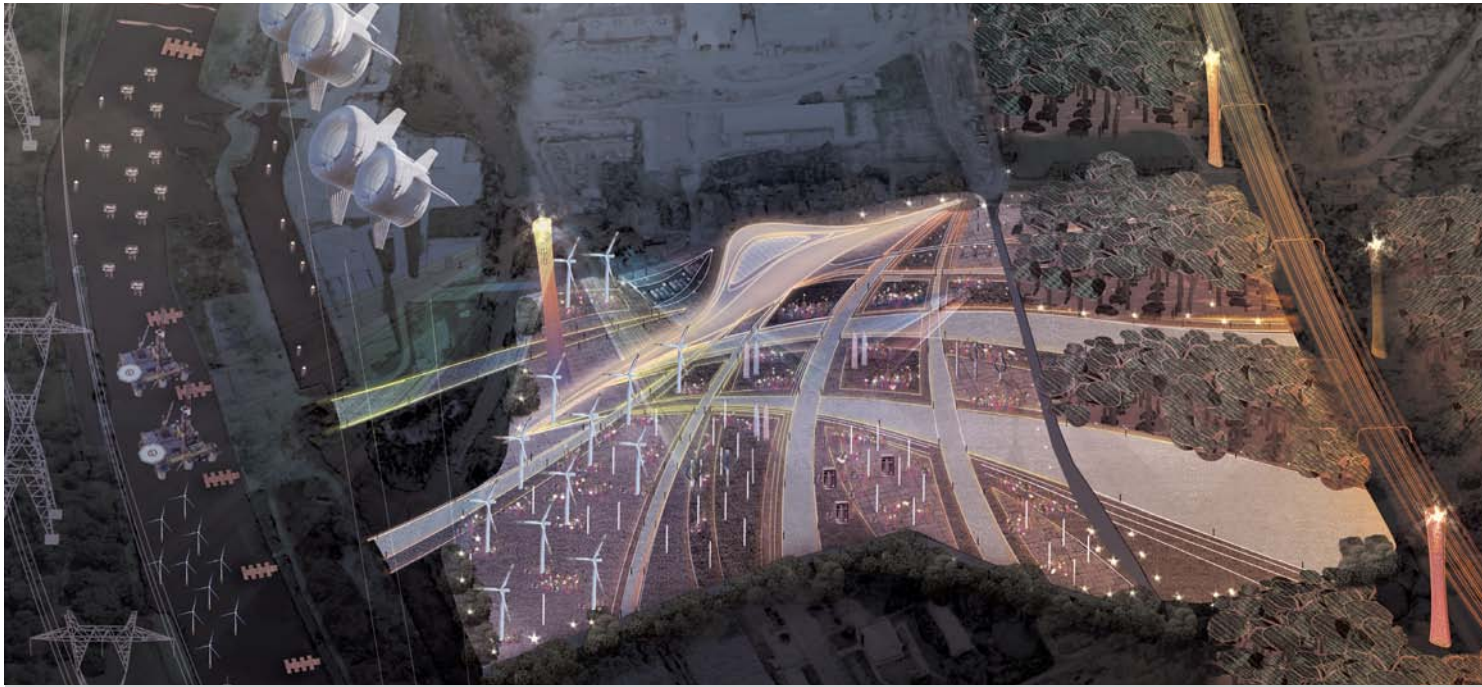
Runcorn Reborn / Xuyi Wu

An energy collection and production system for the town of Runcorn
with a central facility for monitoring and visitors.

The in-between / Dayang Maamon

The specific indeterminacy - a framework for leisure and production
in post-industrial landscapes.

Atelier 5

IC 1101 / Henry Faulkner

The Amazon warehouse meets IKEA of new housing provision. Recycle your old home and swap it for something new
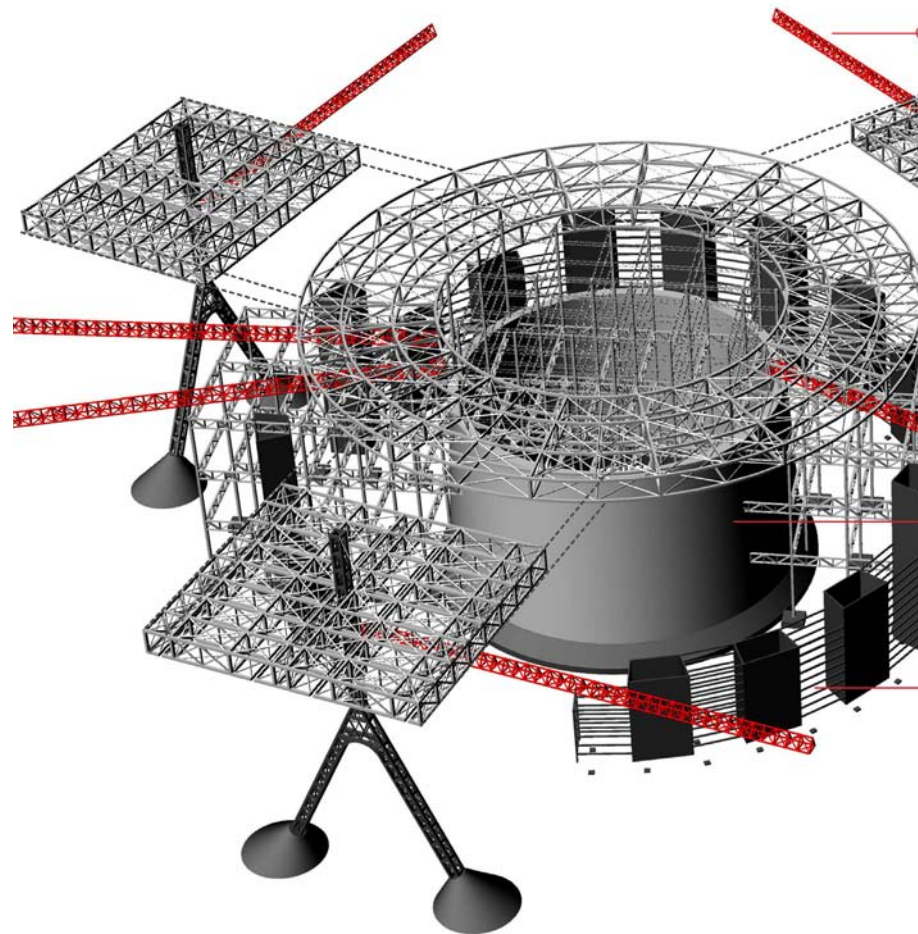
Institute for Dynamic Urbanism / Orestis Kyriakides

Choose your own home after the system has nominated you for renewal. An urban game for constant renewal.

Atelier 5

United Districts of Runcorn /
Ameya Bhusari

The reconstitution of governance in Runcorn and
a new central town hall designed for collective
success and potential failure.

Atelier 5

Looking for inspiration?

Then take a look at this elevation of a completed street...

The 203
'The Normal House'
The Smith Family

The 169
'The Solar House'
Dr Yvonne Grunder

The 169
'The Artists House'
Tom Gilmour

Top: Stadmaker / Ben Robinson

A new city made from 3D print technologies and infinitely customisable.

Bottom: Rurban / Gary Whitechurch

Scheme to combine the rural landscape of Cheshire with high speed rail infrastructure and urban levels of density.

MSA Projects

Helen Aston, Emily Crompton, Stefan White.

The architect is a prominent figure in the understanding and shaping our cities and our society. We develop and explore the capacity of architectural expertise in creative processes beyond disciplinary boundaries. The atelier is based on two key principles; that communities are a material component of place and that architects are already citizens. We enter into critical discourse, learn techniques for community-engaged architectural practice, use this to develop clients and briefs, and practice multi-mode research methods investigating site context to develop place responsive architectural design proposals. This employs and extends our own 'world class' inclusive urban design-research methodologies as part of the Centre for Spatial Inclusion Design-Research (cSIDr).

Fifth years undertook an interdisciplinary research programme creating and positioning a Manchester housing and communities strategy within the wider UK context. Working in collaboration with Manchester City Council and local housing providers in neighbourhoods around the city, we consulted with organisations involved in the planning and supply of housing and services, and collaborated with residents and experts in the design and procurement of community spaces and facilities including specialist housing. The resulting 'Manchester Compendium of Spatial Inclusion' was presented and shared with regeneration teams and housing providers. Projects individually explored and illustrated the group research.

Sixth year projects include the commission and construction of a play environment, developed through engagement with a traveller community in Blackpool ;a creative, user-led construction system for a live urban planning and housing project for semi-formal settlements in Ecuador ; a community housing scheme developed through a reflexive and iterative montaging and improvisation process in Hulme.

All our projects are place specific, and address particular issues: Manchester's domestic violence; Hulme's neighbourhood transformation; Manchester City's cycle transport strategy; social inclusion of traveller and gypsy communities in Blackpool; tackling austerity through distributed schools and other urban synergies in South Manchester; an inclusive media city; a housing first approach to city centre homelessness; an integrated youth strategy for Salford; a dementia and family friendly upgrade for the Moston Pub estate, Harpurhey; a local community revenue claw-back at the Etihad stadium; a sustainable Co-housing scheme for Sheffield; an urban agriculture regeneration for Anfield.

cSIDr is a community-engaged research and design partnership between MSA and Manchester City Council. Focussing on multiply-excluded populations with emphasis on experiences across ages, we have developed world leading approaches to delivering age-friendly city policy in local contexts. http://www.msa.ac.uk/csidr/index.html

MSA Projects students 2014 -15:

Year 6:
Nawal Nabila Binti Anuar, Marium El-Sayed, Dammy Fasoranti, Andrew Kight, Steve Lovejoy, Madeleine Mooney, Mal Ramiza Ramlan, Nur Lyana, Wanis Binti Salehuddin, Matt Shanley, Ellie Shouer, Tim Spiller, Bharat Tripathi, Wan Syafiqah Binti Wan Mohamad Anuuar, Alex Watts, Fatin Thurayyah Binti Zolkeplay

Year 5:
Emad Alyedreessy, Maria-Magdalena Atanasova, Mohammad Farhad Bakht, Charle Butterwick, Luke Carver, Tania Croghan, Rafat Jahandideh, Daniel Kelso, Vilte Kulikauskaite, Daniel Rui Zhi Lee, Angeliki Manta, Selasi Setufe, Jenny Sewart, Ahmad Safri Bin Shamsuddin

Project for a Playground
Matthew Shanley/Madeleine Mooney

'Because a playground doesn't have to cost a million bucks and come in a box. In fact, it's better if it doesn't'
Paige Johnson

Located at Chapel road Traveller site in Blackpool, the collaborative project has been developed with a traveller community, the arts organisation Leftcoast and led by MSA Projects team with Matthew and Madeleine acting as project architects.

Blackpool Playground / Matthew Shanely, Maddie Mooney
Final images of the playground built in Blackpool, demonstrating the CNC plywood construction method and integrated design elements.
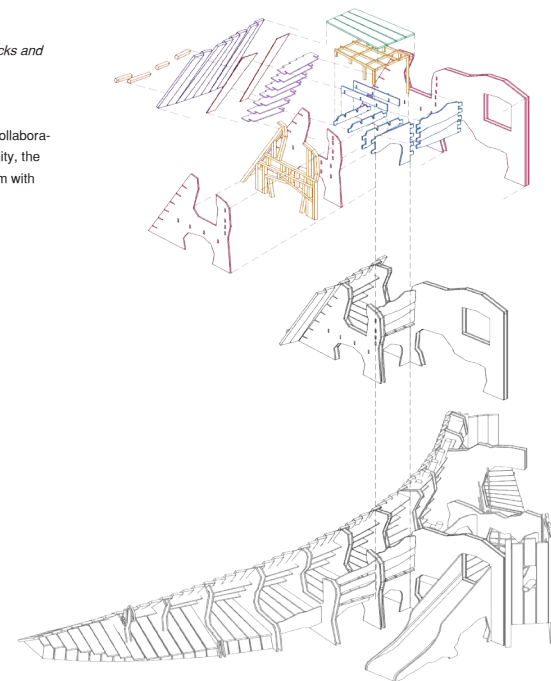

The project began with a number of engagement events building up relationships with the community, the proposals have developed into a coherent set of interventions to change the perception of all the existing community facilities on the site, which are little used. The equipment has to be designed to stimulate the imaginations and movements of a full range of ages and the design team has attempted to fold in as many playful allusions as possible into the form and detail of the construction: caves, forts, shipwrecks, merry-go-rounds, water-falls and a 'wall of death'.

Atelier 6

Hulme is where the hearth is / Stephen Lovejoy

An affordable housing scheme designed to increase the opportunity for social interaction between residents. Shared common spaces and facilities of different sizes and enclosure allow individuals to move freely between more public and more private places. Edges are designed to be permeable and occupiable, with courtyards, balconies and small gardens for residents - blurring boundaries and increasingly visibility.
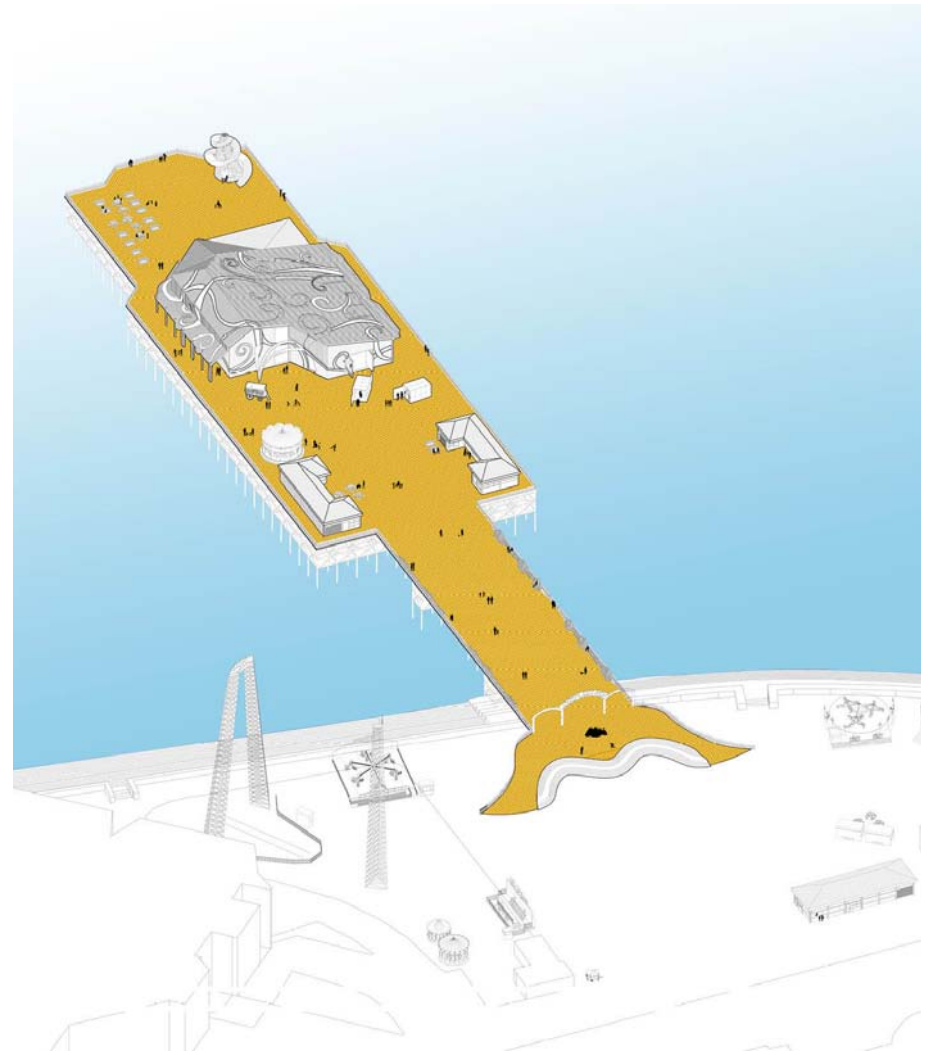
Building Visibility - Making Space for the Romani Way / Madeleine Mooney

To counter this invisibility of the Gypsy community, the proposal is to redevelop Blackpool's South Pier (the site of the town's original Gypsy encampment) into a new attraction with a permanent building that houses an exhibition on Gypsy history, a market hall with mobile units including a clairvoyance stall and flower carving workshop and a Gypsy family history archive.

Atelier 6

Moss Side Neighbourhood Campus and Scale Free School / Matthew Shanley

The proposal is for a neighbourhood campus and scale free school in Moss Side and Hulme, rooted in a 'playful' strategy that re-imagines local services and assets in an integrated and connected way.

The Community of Football Clubs / Bharat Tripathi

The 'Beswick City' proposal uses the sport of football as a vehicle to benefit the local community, and drive local trade. Encompassing a hotel, microbrewery, retail units, an away-supporters clubs and other community facilities, the scheme creates chances for local people and businesses to thrive on the popularity of Manchester City Football Club.
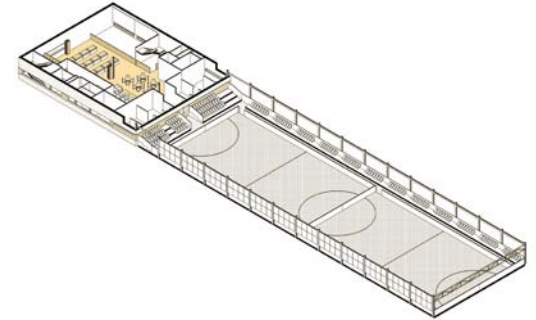

The Hideout - Manchester Domestic Violence Project / Wan Syafiqah Wan Anuuar

The domestic violence shelter with a stealth program designed for a better living, health and security of the victims. Located at the edge of nature and the edge of community it will be ideal for the victims who are on the edge of their life.

Atelier O

SUPERfarm / Nur Lyana Wanis

Proposing a system based model for re-activation of the area and urban growth which considers food production as integral part of the process. A strategic approach for the establishment of a community with the urban farming operation, cultivating agriculture and productive landscape value to serve as a community resource and economic developmetn opportunities.
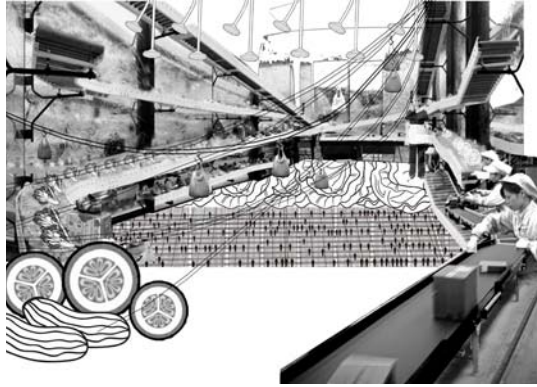

The Bicycle Project
Maliha Ramiza Ramlan

The project is to develop a new model of transit for the Oxford Road Corridor by creating a more improved and livelier Bicycle City. Proposing a resilient special places for cyclist within the busy and hectic environment of the Oxford Road. Integrating bicycle activities which are controlled and spontaneous spaces with accordance to the need of the users.
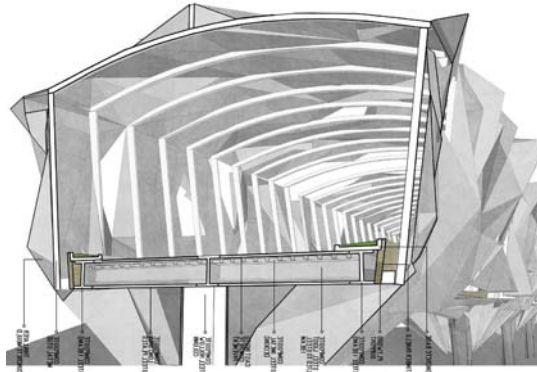
Student City
Nawal Nabila Anuar

The accommodation scheme experiments on changing the current student housing model to encourage social interaction among students and the existing community thus enhancing the experience of non-local students, not only as a transition throughout the different aspects of their trajectory from academy to career development but also to become active and supportive members in the community.
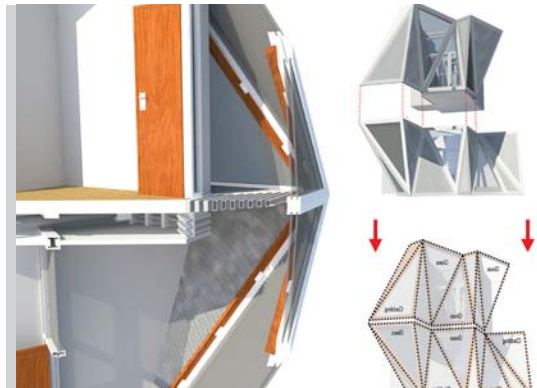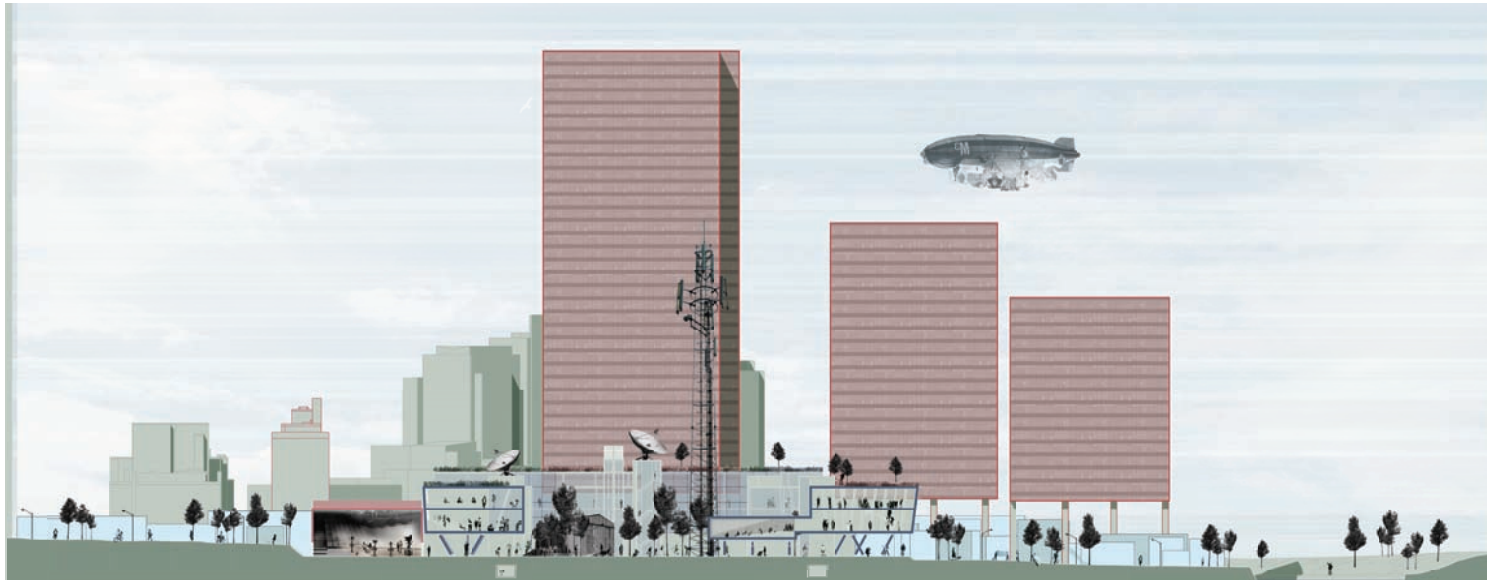
## Metropolitan Media / Tim Spiller

'When there is information, there is enlightenment. When there is debate, there are solution.'
Atifete Jahjaga

Information is pivotal in addressing global issues such as extremism, poverty and climate change. The flow of information has become constrained by exclusive media enclaves; within Manchester this takes the form of MediaCity. Metropolitan Media is a subversive and open-source MediaCity integrated within the Granada Studios site, which broadcasts the discourse of citizens to the level of the corporate media organisations which dominate the airwaves. It sits within a mixed-use masterplan opposing the Ian Simpson proposal which would only decrease diversity through the continued gentrification of Manchester.
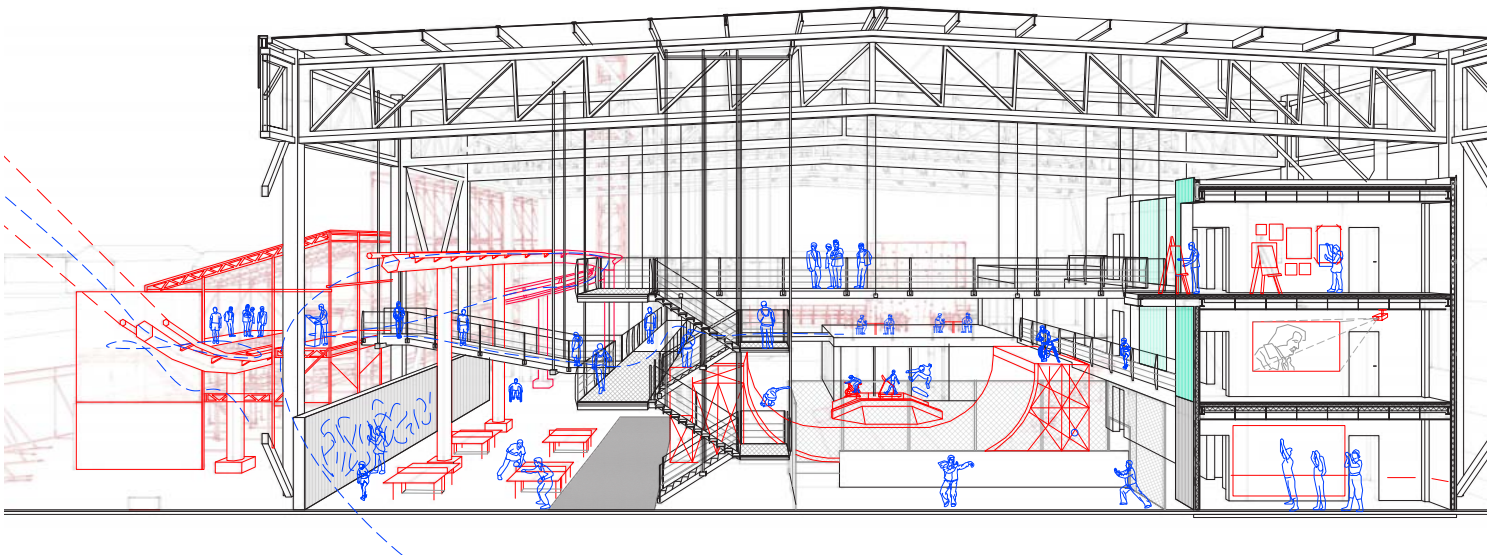
Salford Lads Hub / Alexander Watts

The Salford Lads Hub project revolved around tackling youth issues in the Ordsall area of Salford, culminating in the design of a specific youth centre building within a wider urban masterplan for New Barracks estate in Ordsall. As a way of encouraging young people to engage with the youth services featured in the masterplan elements of theme park design and technology were incorporated into one building. The resultant design consisted of a larger canopy for informal activities, with smaller self-contained structures for other activities. The design was heavily focussed on developing the way in which people negotiate the structure, and the order of spaces was informed by early masterplan diagrams.

SUPPORTS in Monte Sinai / Ellie Shouer

The live project 'SUPPORTS in Monte Sinai', primarily focuses on the accommodation of a collection of programmes through the application of a new construction system; a system which embraces local and natural materials (such as bamboo and adobe blocks), supports established construction knowledge, and ultimately aims to enhance Monte's everyday life.

Sustainable Cohousing in Sheffield / Marium El-Sayed

This scheme offers a communal way of living for the two fragile parts of society affected by loneliness, the elderly and the young. The environment is designed to bring out the best in people, using architecture to aid productivity in all ages counteract loneliness.

XDemolition / Fatin Thurayyah

Neglected public space at Moston Pub Estate is a sign of spatial failure. There is a serious concern over the quality of the physical environment as it could be a vital element for natural surveillance.

An issue that leads to the failure of the physical environment should be addressed as an architectural responsibility. Demolishing and setting up a new scheme is consider taking a new risk and potentially repeating the same issue.

qed

Colin Pugh, Siobhan Barry, Dominic Sagar.

qed is an initialism of the Latin phrase *quod erat demonstrandum*, meaning 'which had to be proven'. Traditionally placed at the end of a mathematical proof or philosophical argument, the abbreviation signals the completion of the proof. We think, we design, we test, we prove.

Civilisation is intrinsically rooted in the built environment, the development of science and technology and related societal organisation. The contemporary epoch is characterised by the development of a more profound understanding of how the human species affects the global ecosystem of which it is an integral part. This emergent knowledge field is fuelled by the increasing capacity and sophistication of computational processing that enables complex models to be developed that simulate our existence and cultural operation. We are poised on a threshold where systematic and holistic ecological models will promote a paradigm shift in the concept of development as it is applied to operations that take place in the realms of air, land and water.

qed continues to employ international competitions as an embedded part of our learning culture developing the acuity of student understanding in a global discourse on sustainability. This also reinforces excellence in the communication of research led design consistent with the professional aspirations we promote in our students.

The outward facing nature of our pedagogy is enhanced through the further development of active collaborations with professional practices in architecture and related academic disciplines. Zlatina Spasova has fostered this collaborative approach in her role as National Coordinator of The Architecture Students Network.

Students undertook study tours and research workshops in Havana, Cuba, Nicosia, Cyprus and Florence, Italy. We hosted the Horizon2020 International Airport Symposium with the University of Florence, including lectures from distinguished visitors and hands on workshops in the future of aviation and airport design.

qed wishes to thank our collaborators and contributors for their continued support:

Anhui Normal University - Professor Weidong Cao
BDP - Ronan Connelly
Bruntwood - Bilal Alam / Lee Treanor
Bridge Architects - Russell Bridge
Foster and Partners - Colin Ward
Grimshaw Architects
Ken Oliver - Steel Consultant
Michael Hyde and Associates - Jodi Carr
MMU - Dr. James Cheng / Callum Thomas
RSA North West
Severfield - Jarrod Hulme
University of Exeter - Environment and Sustainability Institute
University of Florence - Maria Antoinetta Esposito / Paolina Ferruli
University of Nicosia - Markella Menikou / Adonis Kleanthus
WCEC Group - Richard Bowman
Wilson Mason LLP - Alan Williams

qed students 2014-15:

Year 6 :
Aidin Ahadzadegan, Seyedeh Ladan Alavi, Steven Anton, Ching Yee Chan, Charlotte Garrett, Padraic Gorman, Yinghua Luo, Alan Pun, Reece Singleton, Zlatina Spasova, Boyana Stoeva, Aiste Strazdaite, Mohd Fakhruradzi Bin Tajuddin, Seong Cheng Teh, Tiffany Wong, Xinyue Yang

Year 5:
Mohammed Ezzad Abu Bakar, Irina Adam, Hakym Ahmad, Daniel Bramah, Gavin Chan, Cheryl Chin, Mark Eden, Akmal Waluddin Mohd Kamaludin, James Lawrence, Siew Yong Lim, Siti Sazali, Pin Khiam Wong

qed / international competition

International competitions are an embedded part of our learning culture in the qed atelier, developing the acuity of student understanding in a global discourse on sustainability. This methodology also reinforces excellence in the communication of research led design consistent with the professional aspirations we promote in our students. Notable successes include; Boyana Stoeva who won the Archi-World Academy Student Competition Award for her entry Spiritus Urbana, winning an internship with AIA Gold Medal winner Peter Stutchbury, Australia. Mark Eden, Irina Adam and Mohammed Ezzad Abu Bakar for their entry The Borrowers winning the RSA Keep Calm competition in association with Bruntwood. Daniel Bramah, Hakym Ahmad, Mohammed Ezzad Abu Bakar and Cheryl Chin were also shortlisted in the RSA Student Design Awards for their entry Locomo Think.

This page:
Top: Cornerblock Competition, qed Year 5 with Colin Pugh and students from the University of Nicosia, Cyprus

Middle: Gavin Chan, Year 5, joint winner at the 6th Caribbean Winter School 2015, Havana, Cuba with Munster School of Architecture, Escola Tecnica Superior dArquitectura de Barcelona, Technical University CUJAE la Habana

Bottom: qed Year 6 with Siobhan Barry and Dominic Sagar, specialist hi-tech biosafety and containment lab design masterclass, AV Hill Building, University of Manchester

Opposite page:
Top: Spiritus Urbana, Boyana Stoeva

Middle: The Borrowers, Irina Adam, Mohammed Ezzad Abu Bakar, Mark Eden

Bottom: Locomo Think, Mohammed Ezzad Abu Bakar, Hakym Ahmad, Daniel Bramah, Cheryl Chin
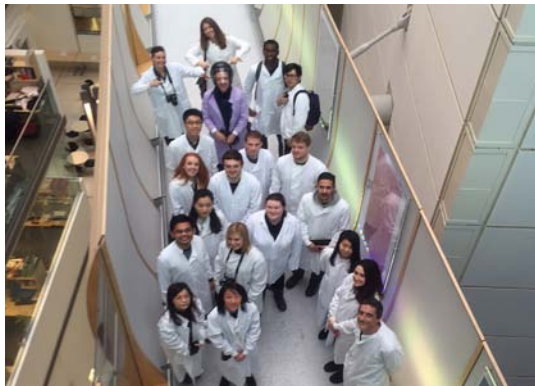
qed Global Thesis / AIR

We live in an era of unprecedented speed and mobility. The aviation industry connects more people, further afield, but it must also meet higher demands in security and sustainability and plan for changeable market conditions. Bearing this in mind, qed AIR tackled international sustainable aviation projects in the UN Green Zone, Cyprus, Townsville, Queensland, Australia and Melaka, Malaysia. Students travelled to the University of Florence to take part in an research workshop, qed then hosted the Horizon2020 International Airport Symposium at MSA to discuss the future of sustainable aviation design with our international partners.

Air Malaysia, Melaka, Malaysia / Mohd Fakhrurazdi Bin Tajuddin

Air Malaysia is based on a distributive concept model fully integrating public transportation systems. Through this model, carbon emission can be reduced and travel experience can be improved. The airport is located at Melaka where it intends to leverage on the high speed rail network connecting two major ASEAC cities namely Kuala Lumpur and Singapore. The 15 mil capacity airport will become the point-to-point regional airport.

Nicosia Aerovillage, United Nations Buffer Zone, Cyprus / Seong Cheng Teh

The Aerovillage concept is developed as a foundation for further sustainable development in the surrounding area. Redeveloping the existing airport as part of the proposal, flexibility integral to the design offers possibilities for expansion as demand grows. Developing the Buffer Zone as a unique controlled zone creates an oppertunity to reinforce the ecological, socio-economic and political benefits for both Greek and Turkish Cyprus.

Nicosia International Airport, United Nations Buffer Zone, Cyprus / Aidin Ahadzadegan

The Nicosia International Airport provides a new terminal that both Greek and Turkish Cypriots can access from their respective check point enteries to the United Nations Buffer Zone which remains neutral territory. The existing airport stands as a reminder, a contemporary museo-artefact sensitively incorporated into the new structure; a working, purposeful reflective space.

The Protocell Terminal, United Nations Buffer Zone, Cyprus / Boyana Stoeva

The Protocell Airport is a model typology for a sustainable rationalised design, reducing the use of land and increasing the capacity handling abilities of the terminal. The scheme employs alternative methodologies for both passenger and aircraft circulation incorporating a novel taxiing system based on the conveyor belt and electromagnetic propulsion systems.

qed global thesis / LAND

Shenzhen, the site for qed LAND, stands as a symbol for the power of rapid urban change, shaped over mere decades by the flow of people, goods and ideas. Early masterplanning formed part of group enteries to the international Schlindler Award. Through a comparative and collaborative approach students contributed their ideas for their Shenzhen of the future, addressing some of the most urgent environmental, social and economic issues that societies face today and tomorrow.

Considering the interface between mobility and the city, student thesis projects address the challenges presented by globalisation and urbanisation, through the vehicles of higher education, migrant housing and health, logistics and biological research institutions. Analytical design proposals use mobility as both a catalyst and coduit for urban change related to Shenzhen and its local and regional relationships in the Pearl River Delta. The interface of mobility networks within the built environment of the city and region must be considered in a global context.

Left: Shenzhen SEED City Masterplan / Steven Anton, Alan Pun, Zlatina Spasova

Bottom Left: EntomoHub / Shenzhen Zlatina Spasova

Bottom Right: Sungang Qingshuihe CASCADE / Charlotte Garrett, Padraic Gorman, Reece Singleton

Atelier 7
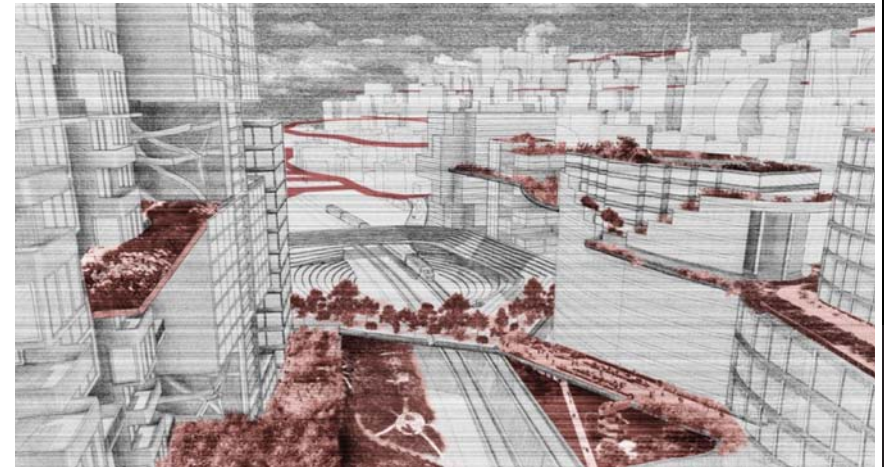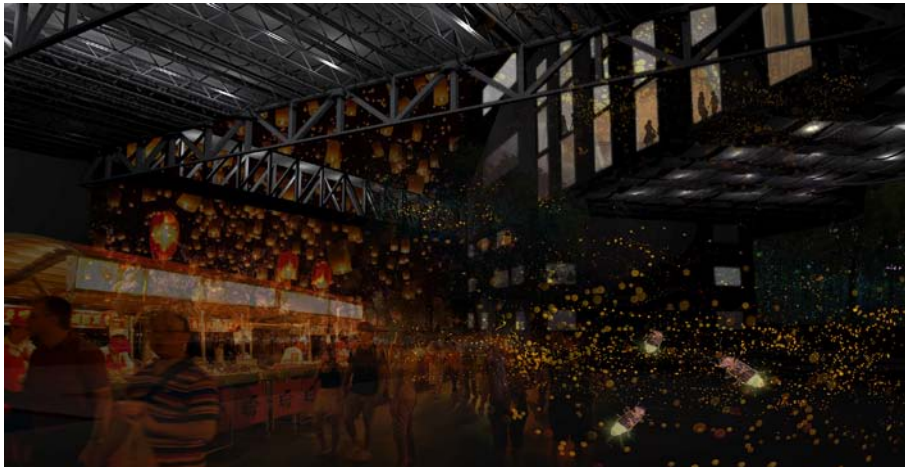
House of Many, Shenzhen / Charlotte Garrett

A modular housing prototype made from off-the-shelf components to provide flexible, adaptable and affordable compact housing for the under-represented and growing population of transient migrant workers from rural China. It serves to mitigate growing tensions between the rich and the poor, the rural and the urban as a mixed-use amalgamation of residential, retail and health driven programs. House of Many, seeks to reclaim individual and community expression within the urban realm through the integration of all people.


SQ T-HUB, Shenzhen / Yinghua Luo

The SQ T-HUB is an incubation centre for innovative and creative local business based on a combination of creative and business education programs and a working environment for SME. The building is designed to be part of the city ecology ribbon functioning as resource re-generator and ecology landscape in the urban area.

Atelier 7

Resources Translocation:
Logistics Research Centre, Shenzhen / Xingue Yang

Development of city logistics presents us with three targets; mobility, sustainability and livability. Under this goal the purpose of this design is to develop an operational model for logistics higher education management, aiming to provide a research centre to drive the local economy by dealing with outstanding resources translocation, terminal form of food retailing and self engine cooperative education.
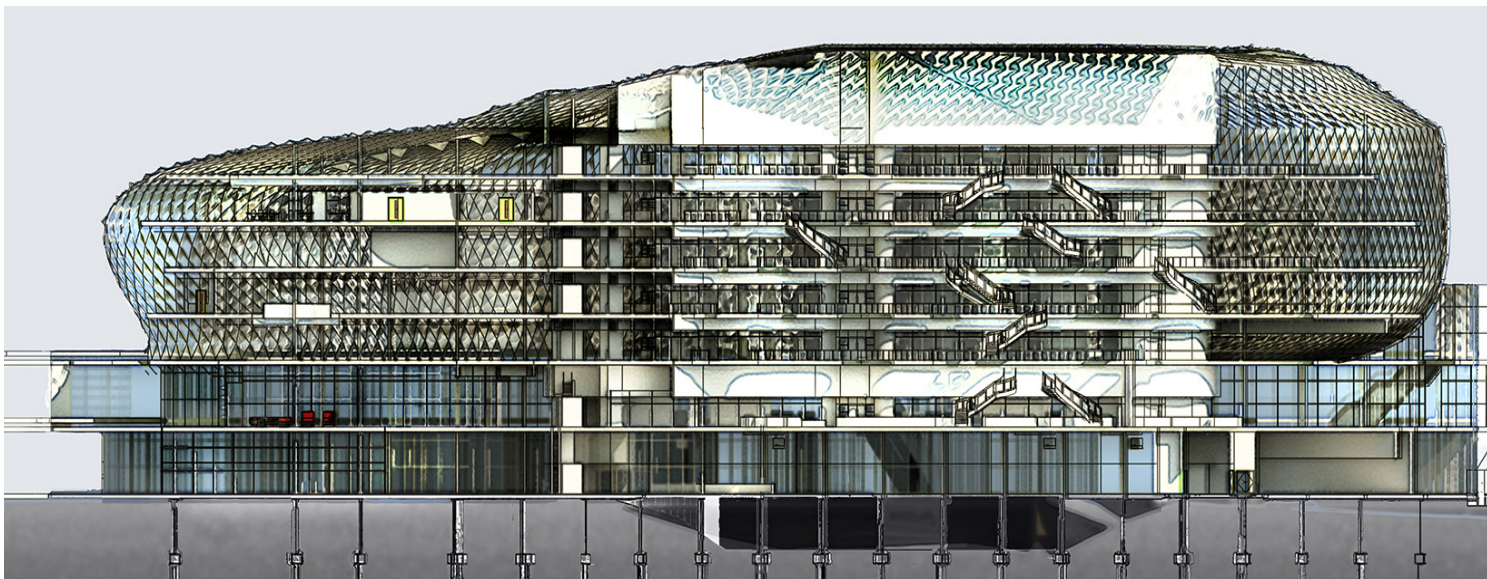
Su Song Technology and Innovation Hub,
Shenzhen / Steven Anton

The Su Song Technology and Innovation Hub is a state-of-the-art science education and re-search building with flexible reasearch, teach-ing and learning spaces. The multi-purpose building has a mix of learning, workplace and social areas. The building houses five key materials, science and engineering research centres and occupies a site on the end of the Quingshuihe district of Shenzhen next to key transport nodes.
The institution positions itself as part of a cam-pus as a centre for experimentation in the field of clean technologies on a scale to meet the challenges related to a dense urban environ-ment, promoting new types of learning styles and operating as an educational incubator.

**Atelier 7**

qed Global Thesis / WATER

qed WATER engaged with environmental forces on their most basic level. Climate change will increase our exposure to urban flooding. Adapting to and mitigating against both the causes and effects of climate change are enormous challenges for the way in which we design, plan and build. Do we protect or relinquish our current coastline and what of our coastal settlements?

Defending our communities from rising sea levels and urban flooding from rivers and run-off requires brave fresh thinking and new approaches to architecture and engineering. The long term nature of climate change and the inevitably long term approach necessary to adapt drives innovation. This will have implications for spatial and infrastructure planning. If we harness the cross professional nature of the response new possibilities emerge, as well as a chance to reassess the very essence of our relationship with water.

Left: Quay of the Strand, Newlyn, Cornwall / Chan Ching Yee

Bottom: Buji Hydroelectric Bioremediation Dam, Shenzhen / Padraic Gorman

Atelier 7
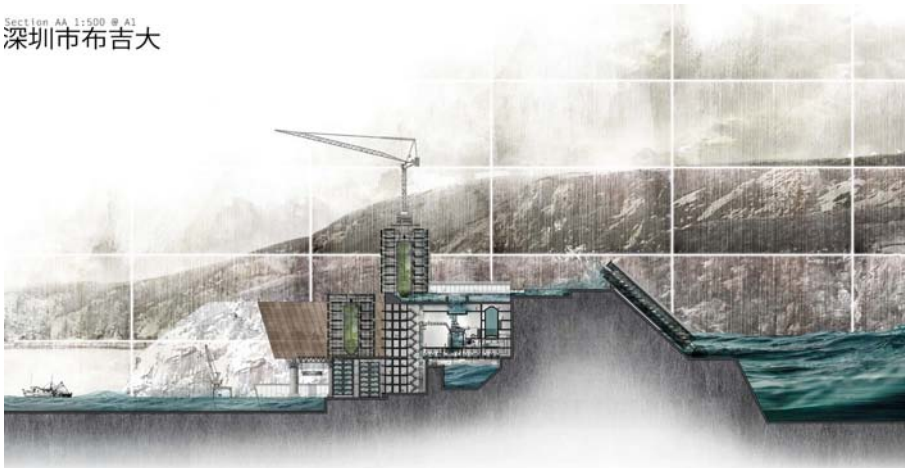
MARC Workshops

This year, a new element was introduced to the 5th Year studio, a series of research-led workshops focusing on architectural theory and ways of mobilising the humanities side of architectural history and theory within a design context.

The workshops ran in two streams, with each student selecting one in the first term (weekly workshop sessions) and one at the beginning of the second term (an intensive week long workshop). The workshops were led by MARC, the Manchester Architecture Research Centre at the University of Manchester, and designed to further connect ongoing research and teaching at Manchester School of Architecture.

Knowledge Production in Architecture
Dr Ray Lucas

This workshop considers the ways in which architecture can be understood to produce knowledge in a unique manner. The workshop draws substantially on the arguments and methods of the ERC funded research project 'Knowing from the Inside: Anthropology, Art, Architecture and Design' at the University of Aberdeen led by anthropologist Tim Ingold (http://www.abdn.ac.uk/research/kfi/). By reconsidering the tools of architecture, from drawing to model making, site investigations and the interventionist nature of the discipline, this workshop seeks to understand the ways in which our different forms of practice inform what we are able to produce. By the end of the workshop, we will produce a robust toolkit for understanding context in a particular manner. We must always consider the editing inherent to any form of graphic representation. Workshop sessions included themes such as Play, Notation, Soundscape, Collection, and Exchange. In accounting for a site, we are reminded of Jorge Luis Borges' parable On Exactitude in Science where a sovereign commissions a perfectly accurate map of his territory. So perfect in fact that it covers that territory precisely.

Transdisciplinary Urbanism
Dr Deljana Iossifova

The cooperation of practitioners and researchers with different disciplinary backgrounds is urgently necessary in the face of global urban challenges. However, the lack of a shared terminology and clear definition of 'urban' can make it difficult to progress a common agenda. This workshop creates a platform for the development of new, collaborative and transdisciplinary approaches to urban challenges. The workshop developed an overview of different definitions of 'urban' and discussed theoretical frameworks and practical methods in diverse academic disciplines & professional fields. The workshop included discussions of key texts around typical theoretical frameworks and practical approaches to studying, planning and managing the city in different disciplines. A key operation is to learn to borrow knowledge and methods from anthropology, geography, ecology, sociology and others. The workshop developed innovative ways for integrating and applying these concepts in the studio.

User Representations in Architecture
Dr Alan Lewis

In our modern, capitalist society, architects rarely have the opportunity engage with those who will occupy their buildings. Architects clients are often building contractors, speculative developers or public bodies, rather than individuals who will inhabit the completed buildings. This can make it difficult for architects to understand the needs of building users. This workshop took a critical look at the term 'user' as employed within architecture. Drawing on Akrich and Latour's concept of user representations and scripts, the workshop explored strategies for understanding the needs of building users. The difficulties of designing buildings for unknown users, who might differ from the architect in terms of age, gender, class and ethnicity, was discussed alongside the risks of reducing potential users to stereotypes.

Arguing Architecture: Big Data Research
Dr Lukasz Stanek

Traditionally, architectural research has been focused on qualitative assessment of individual objects: singular and singled out as exemplary from larger series. Only rarely were architectural thinkers concerned with these series themselves, and typological research could serve as a rare exception. The aim of the workshop is to speculate about the development of architecture in the last 60 years on the basis of large data sets. Learning from image recognition methods, visual data analysis, and network analysis, participants in the workshop selected data sets concerning architectural production in West Africa and the Middle East. These data sets included photographs of buildings, maps, architectural drawings and statistics about architectural production. The workshop was devoted to the manipulation of these data sets, production of metadata, visualisation, correlation, speculation and the production of hypotheses and arguments. Rather than using visualisation methods as illustration of previously made arguments, this workshop used diagrams, maps, and other visuals as research tools in order to discover patterns and correlations, to formulate alternative hypotheses, to test them, and to construct arguments. The output from this workshop will be presented at an exhibition in Haus der Kulturen der Welt in Berlin and the Museum of Modern Art in Warsaw.

Designing with the Past
Prof Soumyen Bandyopadhyay

This workshop is underpinned by two key concerns - a continued interest in the nature and construction of cultural topography and its relationship with the emergent architectural 'object', and the emphasis on the role of the foreigner in an increasingly globalised world of architectural practice. The workshop is connected to the on going research activities in the Sultanate of Oman by the ArCHIAM Centre (Centre for the Study of Architecture and Cultural Heritage of India, Arabia and the Maghreb, www.archiam- centre.com). ArCHIAM is currently working with the Government of Oman in developing heritage management and development master plans for Omani vernacular settlements, which includes World Heritage Sites.

The workshop focused on 2 sites in the eastern region of Oman -Sinaw and Mudayrib- for which ArCHIAM has recently prepared master plans. Today, many spatial practices are engaged in projects taking shape in another part of the globe, which poses both problems but also unprecedented opportunities. In such contexts architects and urban designers are expected to deal with significant cultural change as well as entrenched continuities, which are often unfamiliar. Understanding such cultural processes are key to making meaningful and lasting contributions.

Filmic Architecture
Dr Ray Lucas

This workshop addressed the oft-discussed relationship between film and architecture. The workshop introduces key film theories as lenses or filters through which we can understand architecture: Narration, Spectatorship, Montage ,Mise-en-scene, Genre, Auteur Theory.

The workshop consisted of brief lectures outlining these key theories followed by close viewing of carefully selected films; fiction and documentary, Hollywood and alternative cinemas. The overall aim is to infuse architecture with a truly cinematic sensibility, one which opens up many of the variables and options. Participants were asked to select a film director, and - based on their reading of these works, design a house for them. This involved a close reading of the films of that director, the narrative structures and cinematography they use; selecting key motifs and arrangements which describe their approach to place, space, experience and narrative. The house is presented as a selection of drawings and a model, which is filmed and edited appropriately.
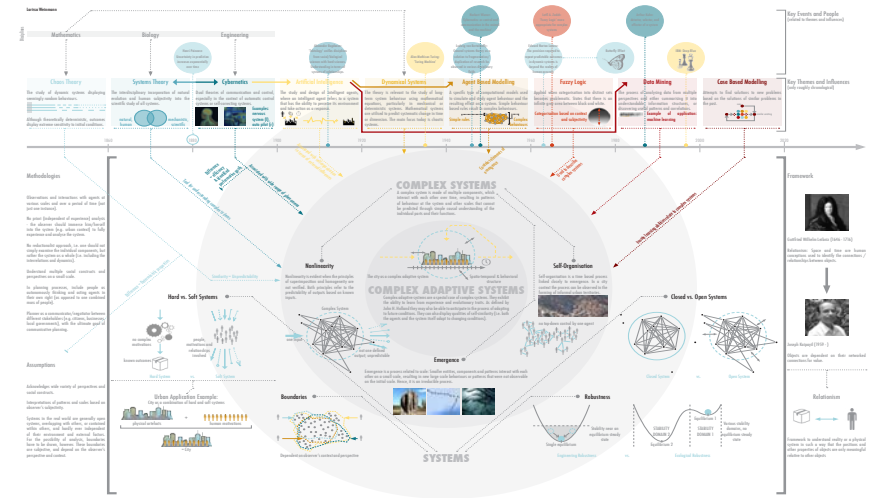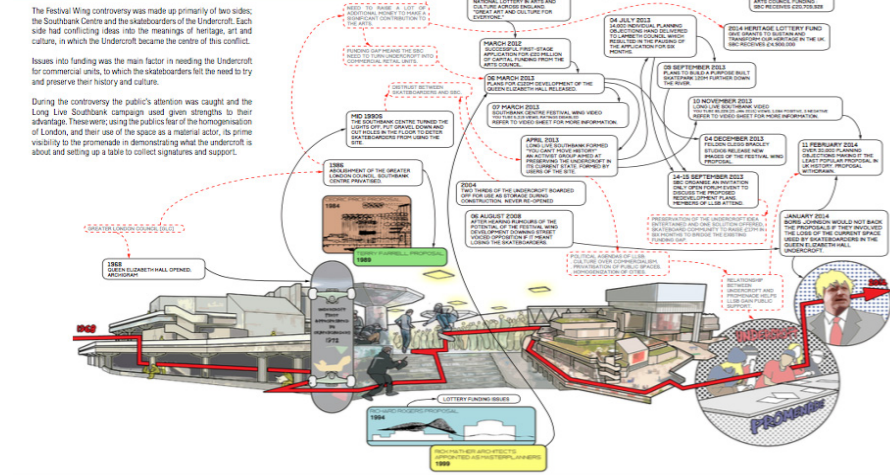
Mapping Controversies
Prof Albena Yaneva

We are increasingly confronted with uncertain architectural knowledge concerning the latest innovations in design and construction as well as the changing demands of clients and communities. This forces us to become embroiled in various controversies in the process of design, planning and construction. Controversy points to the series of uncertainties that a design project undergoes; it is a synonym of architecture in the making.

Mapping Controversies means analysing controversies and covers the research that enables us to describe the successive stages in the production of architecture. It offers a new methodology for following debates surrounding contested urban knowledge.

Workshop participants were invited to map a controversy of interest to them and of relevance to current design work carried out in studio: to follow, analyse and visualise a controversy of design, urban or architectural nature. This means, tracing the timeline of the debate, the various actors' profiles and trajectories, and mapping their changing positions in time and space. The analysis of each case is based on available on-line sources and media reports, as well as existing documentation. A selection of mapping projects will be presented at the Digital World Festival Futur-en-Seine in Paris in June 2015 http://www.futur-en-seine.org and at the Cultural Festival Novela in Toulouse in October 2015.
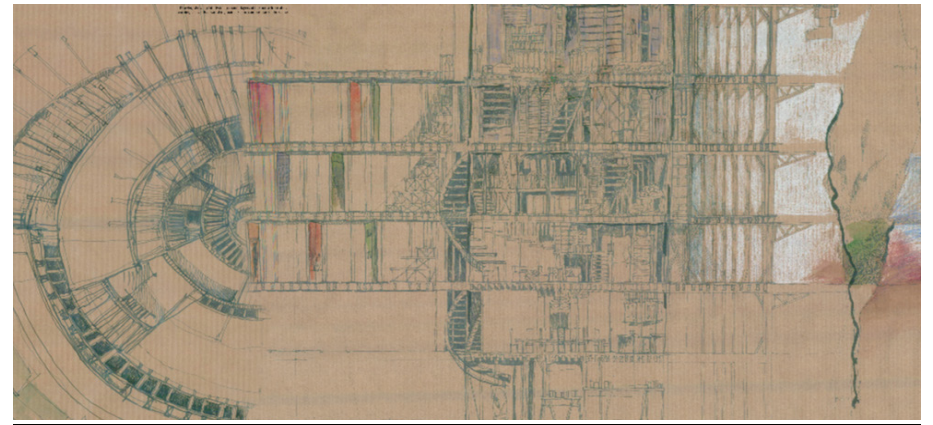

Top: Transdisciplinary Urbanism / Larissa Weinmann
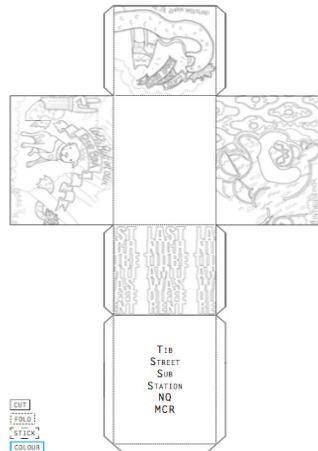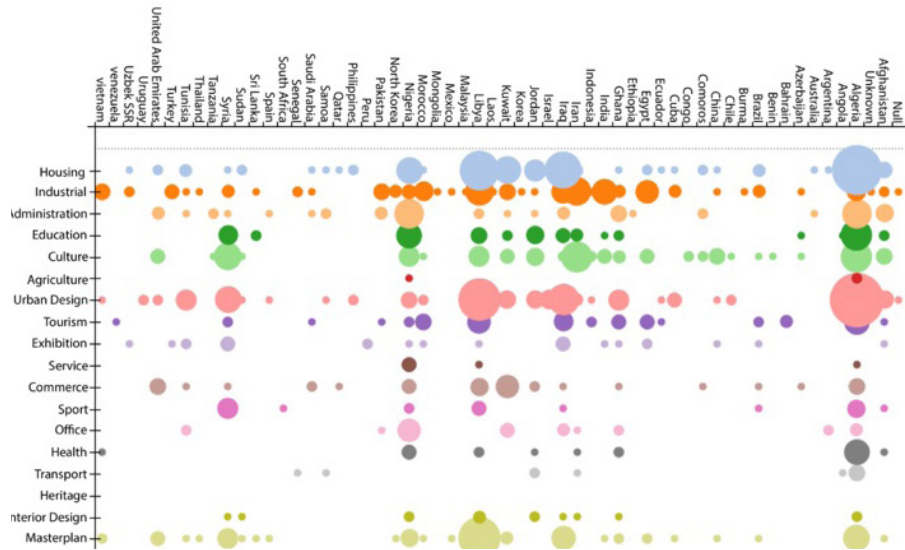Bottom: Mapping Controversies / Matthew Walker

Designing with the Past, View of interior courtyard / Paulina Kowalska, Raluca Pop
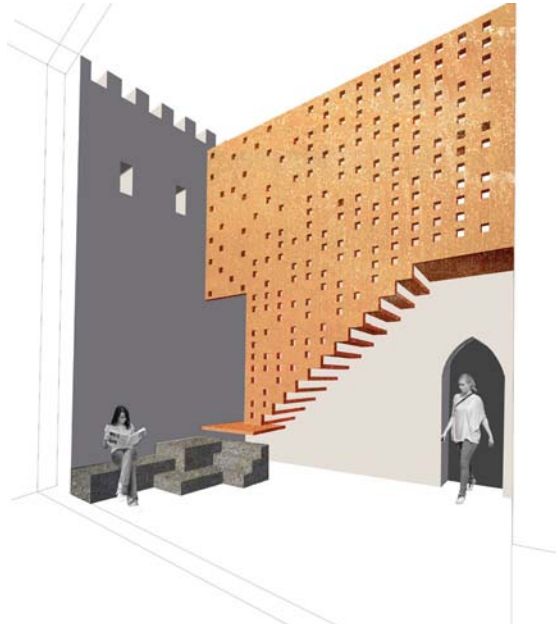
Designing with the Past, Mudayrib-Oman, Masterplan / Ketil Rage, Kristin James

Top: Filmic Architecture / Peter Lee
Bottom: Filmic Architecture / Natalie Dossor

MArch

YOUNG OFFENDERS INSTITUTIONS

USER SCRIPTS
cell elements
SECURITY

PIPES
closed off to prevent
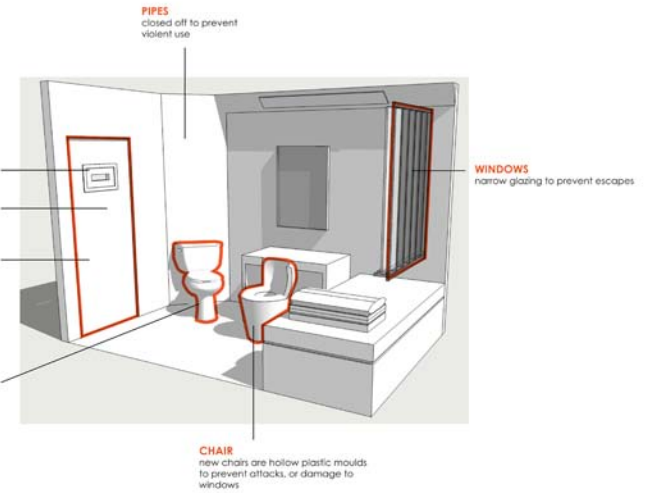violent use

HATCH
allows communication without opening doors in
case of violence, not present in current designs
to be closed at all times - in case of violence
a glazed panel to observe - in case of incidents

WINDOWS
narrow glazing to prevent escapes

FIRE RISK
abduction hole to remove smoke from the cell
before accessing it

DOOR
locked by the guard
opened to slid in food - if the inmate misbehaves
and cannot go to the canteen
direct opening to the central space
pivot hinges can be unlocked in case of
barricade attempts

TOILET AND SINK
prevents from slopping out bucket on a guard
when the inmate is angry

CHAIR
new chairs are hollow plastic moulds
to prevent attacks, or damage to
windows

With the Northern Quarter being an
art hub in Manchester city centre,
I wanted to explore the idea of the
sub station being replicated as a
cliched 'craft kit' which are found
in several of the nearby art shops
such as Fred Aldous. Stripping it
back to a simplistic cut and stick
exercise allows the graphics of
the graffiti to be more closely
looked at.

TIB
STREET
SUB
STATION
NQ
MCR

CUT
FOLD
STICK
COLOUR

7 CUT FOLD STICK

Top: Arguing Architecture
Bottom: Knowledge Production in Architecture / Kathryn Valentine

Top: User Representations in Architecture / Paulina Kowalska, Luke Carver,
Tania Croghan
Bottom: Designing with the Past / Tim Casselden
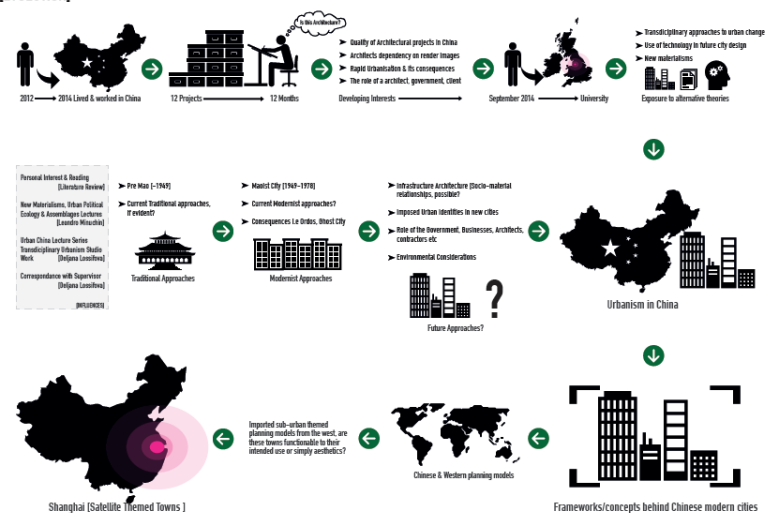
MArch

Dissertation

The Dissertation is an essential element of architectural education, common to all Masters level courses in architecture in the UK as prescribed by the ARB and RIBA. At MSA, the critical engagement with architectural theory is fostered through the MARC Lecture Series convened by Professor Albena Yaneva and the Materials, Methods and the City course led by Dr Leandro Minuchin. The dissertation itself is coordinated by Dr Lukasz Stanek, with students chosing a supervisor from across the our wide range of specialism and expertise.

The MARC Lecture Series attracts high profile academics and architects from an international field, with the following speaking in 2014-15:

Andres Jacque (Office for Political Innovation)
Architecture as Rendered Society
Antoice Picon (Harvard University)
Smart Cities
Gillian Rose (Open University)
Learning from Digital Visualisations of Urban Redevelopment Projects
Jane Jacobs & Stephen Cairns (National University of Singapore)
Buildings Must Die
Beatriz Colomina (Princeton University)
Manifesto Architecture: The Ghost of Mies
Lucia Allais (Princeton University)
Designs of Destruction

The dissertation involves original research ranging from interviews with practitioners, archival research, and field work. A wide ranging research methods course including contributions from MSA staff frames this inquiry with advice on fundamentals including literature reviews, and the initial design of a research project; themes including materiality, typology and utopia; and a range of methodologies.

[EVOLUTION]

Dissertation Diagram / Catherine McCann
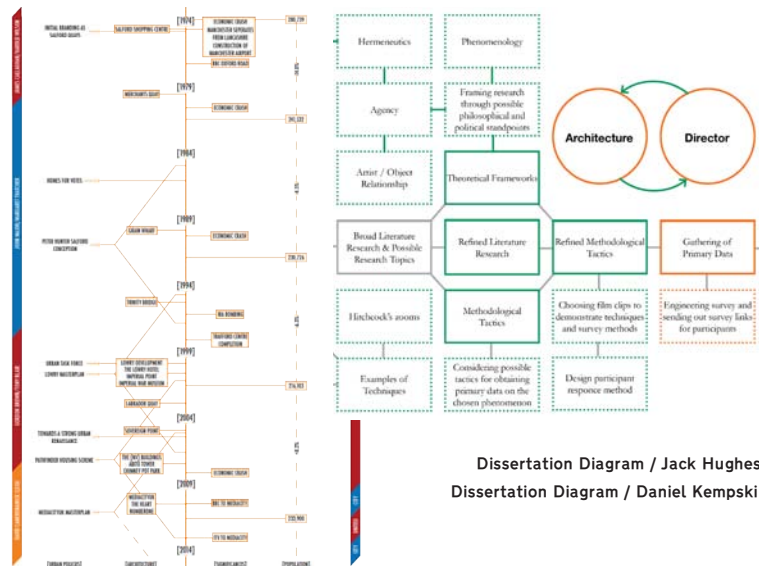
Dissertation Diagram / Jack Hughes
Dissertation Diagram / Daniel Kempski

Technologies

Co-ordinator: Ulysses Sengupta.
MArch Atelier Staff.

Integrated Technologies at the MArch level within the Manchester School of Architecture is designed to enhance atelier led studio projects through year 5 and year 6. This integration takes the form of a set of events run in parallel to studio projects, rather than being a separate module, allowing each atelier to define its own technological agenda within a wider aspirational guidance. Historically architectural technologies have often focused solely on technical solutions, despite the fact that it is clear that sustainability within the construction industry cannot be addressed simply by applying the newest technology to building design. Integrated technologies has a wider scope to encourage connected thinking between social, economic and environmental considerations, allowing for a first principles approach based on relational thinking.

Year 5 was introduced to ecological thinking, referring to socioeconomic networks and material flows connected to environmental impact and climate change adaptation. An approach called Systemic Diagramming was suggested as a dynamic method for integrated thinking based on mapping of real contextual conditions including environmental and cultural issues. Students were asked to progressively analyse and respond to urban scale ecological networks, before distilling this understanding through case studies of real projects and engagement with practitioners and manufacturers to spatial outcomes. The final aim in year 5 was to bring this wider understanding to either material and component scale, or novel manufacturing processes towards architectural outcomes, through a critical understanding of sustainability.

Year 6 was introduced to the basics of complexity science theory and systems thinking in order to encourage consideration of drivers from both trans-scalar perspectives and temporal understanding of urban morphology. A strategic proposal with a critical understanding of the impact of this within a wider socioeconomic and material context was required in the early stages of design to enable incorporation of adaptable elements and best practice. The final aim in year 6 was to bring together the lessons and knowledge acquired over the past two years within a suitably resolved structural and environmentally detailed design outcome demonstrating an awareness of regulations and current practice. A specific 3D detailed study was required to synthesise the integration of theoretical, spatial and material aspects of the design in the context of ongoing societal and environmental change.

Technologies need to be considered not only in terms of design outcome, but also as part of design process. Digitisation and computation are often confused in the context of architectural design, with the unsatisfactory outcome of software or optimisation/efficiency becoming the aim. In parallel with Integrated Technologies, we have also introduced Advance Digital Design. This series of events introduced computational theory and workshops aimed at exploring 'computational' design, digital to physical manufacturing and digital environmental testing.

Final Design
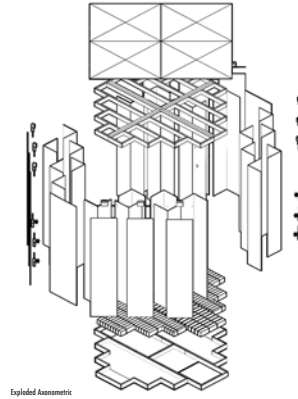
Exploded Axonometric

FINDING FORM

we began computer modelling using grasshopper and sketchup
to test possible shape configurations using lightweight ply slats.

In our proposed design the strips would curve around each other
and slot into a series of precast holes in the base. we thought of
having 3 varying configurations of form. each hole in the base
would be coloured in correspondence with which form outcome
was being undertaken and numbered according to which strip
would be slotted in. a 'build by numbers' approach for easy build
and dismount.
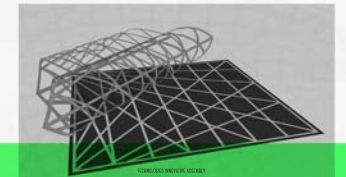
BASE CONNECTION

however, after exploring this concept we felt it was pushing
innovative boundaries. as such, we refined the idea where the
crossing timber lats fold completely over themselves to connect
at a singular point. the base becomes a grooved surface,
accommodating the grid of lats connected into it to create a
flush walking surface.

the original ambition was for this design to also have multiple
configurations. whereby the entire grid could be laid flat along
the base , then each of the 4 corners could be pulled across to
it's diagonal forming 4 different arrangements. however, after
investigating grid patterns and the scale necessary to get a
human scale curve in the pavilion we understood the size of the
base to permit this would be too large (approx 6m by 6m). as
such we decided upon a single arrangement.

MArch Year 5 Innovative Assembly

A 1:1 build project using digital design tools and flatpack design strategies. The event enabled a dialogue between manufacturers,
practices and students, providing students with experience of a real build that is project managed and testing innovative assembly of
materials. The project was kindly sponsored by IBSTOCK and SIKA.

Technologies
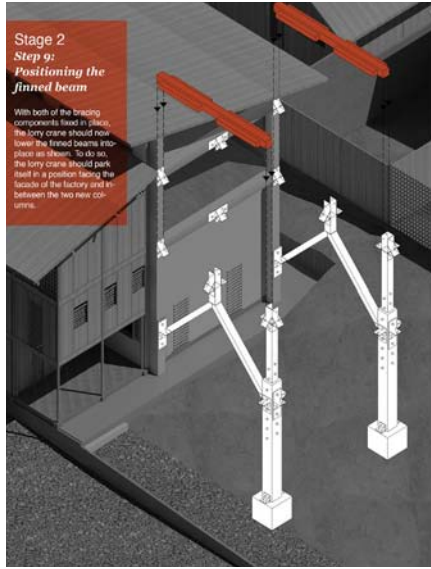
Stage 2
Step 9:
Positioning the finned beam

With both of the bracing components fixed in place, the lorry crane should now lower the finned beams into place as shown. To do so, the lorry crane should park itself in a position facing the facade of the factory and in-between the two new columns.

N/A

2 x Finned Beam

Lorry Crane

No more than 10 minutes to lower each finned beam into place

Trained Lorry Crane Driver

2 Labourers on the ground to assist the lorry crane driver to lower the legs of the bracing pieces into the brackets
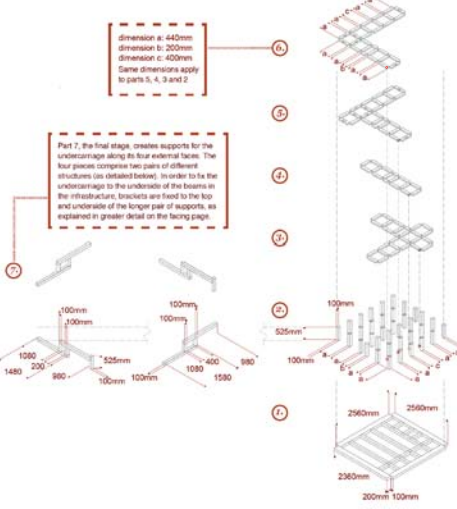
Component 8
Services Undercarriage
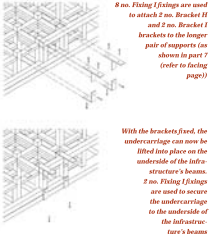
Fabrication of the Services Undercarriage

As with all the infrastructural components, the material choice for the services undercarriage is not fixed; it would be perfectly acceptable to substitute glubam, as suggested in this manual, for an alternative material that is as able to be be fashioned into component pieces of the correct dimensions, minimum bearing capacity and minimum fire resistance. As the services undercarriage carries very small imposed and dead load, it is likely that the factory would fabricate the elements from standard dimensional timbers rather than glubam for costs reasons.

Regardless of the material choice, all elements in parts 2, 3, 4, 5, 6 and 7 of the services undercarriage have a sectional profile of 100mm x 100mm. The lengths of each piece vary (refer to the annotations on the exploded isometric for details). The four external edges of the base frame (part 1) are the only elements within this component to have a 100mm x 200mm sectional profile.

Exploded Isometric View of Elements at 1:100 shown within their stages of assembly

dimension a: 440mm
dimension b: 200mm
dimension c: 400mm
Same dimensions apply to parts 5, 4, 3 and 2

Part 7, the final stage, creates supports for the undercarriage along its four external faces. The four pieces comprise two pairs of different structures (as detailed below). In order to fix the undercarriage to the underside of the beams in the infrastructure, brackets are fixed to the top and underside of the longer pair of supports, as explained in greater detail on the facing page.

Detail at 1:50 of bracket placement

8 no. Fixing I fixings are used to attach 2 no. Bracket H and 2 no. Bracket I brackets to the longer pair of supports (as shown in part 7 (refer to facing page))

With the brackets fixed, the undercarriage can now be lifted into place on the underside of the infrastructure's beams. 2 no. Fixing I fixings are used to secure the undercarriage to the underside of the infrastructure's beams.
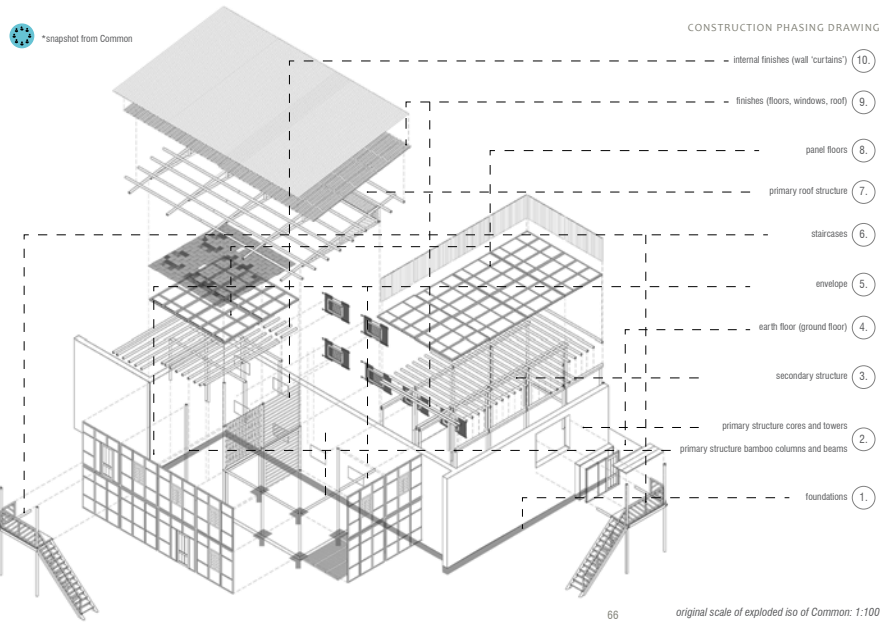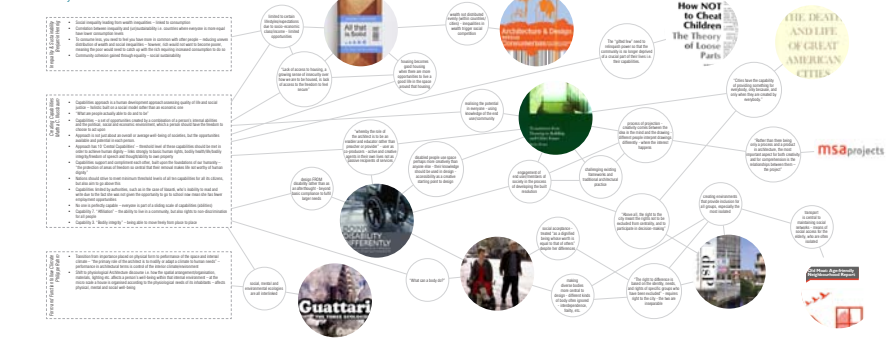
With support provided from the the frame of the infrastructure along two edges of the in-situ undercarriage, the two fixings on each side of the undercarriage are sufficient to keep the undercarriage safely supported in place.

Fixing of Elements

All other elements can be fixed in place without the use of brackets as none of these members is carrying a significant load. Simple wood screws (Fixing I) can be used to fix the elements together.

CONSTRUCTION PHASING DRAWING

*snapshot from Common

10. internal finishes (wall 'curtains')
9. finishes (floors, windows, roof)
8. panel floors
7. primary roof structure
6. staircases
5. envelope
4. earth floor (ground floor)
3. secondary structure
2. primary structure cores and towers / primary structure bamboo columns and beams
1. foundations

66   *original scale of exploded iso of Common: 1:100*

Top: Year 6 Realisation, Bamboo frame system housing /
Ellie Shoue
Bottom: Year 5 Ecologies, Understanding Social Sustainability /
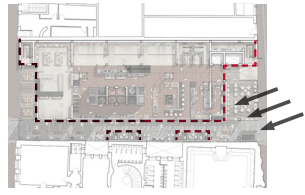Madeliene Mooney

Technologies

(ENVIRONMENTAL STRATEGY)

Overall heating and ventilation strategy

A naturally ventilated system is hard to achieve with a slender, narrow site with exposed north and south façade. Thus, this forces the building to opt for a mechanical system that utilise the heat from the Community Kitchen and two-way extractors which helps regulate the internal temperature. The south westerly prevailing winds also influence the design of the alleyway, with many different planes and thresholds to minimise the effect of a wind tunnel.

The following pages described in detail how the building have been resolved with regards ventilation and heating.

KEY LEGENDS
1. Heated & Controlled Environment
2. Naturally Heated & Controlled Environment
3. Unheated & Controlled Environment
4. Unheated & Semi-Controlled Environment
4. Outdoor Space
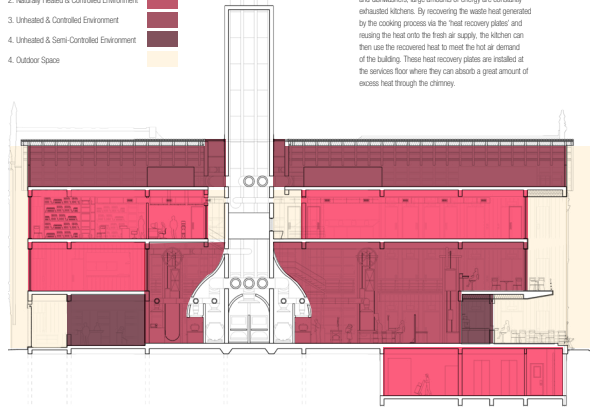
Kitchens are well known for being major energy consumers. Between ovens, stoves, walk-in refrigerators and dishwashers, large amounts of energy are constantly exhausted kitchens. By recovering the waste heat generated by the cooking process via the 'heat recovery plates' and reusing the heat onto the fresh air supply, the kitchen can then use the recovered heat to meet the hot air demand of the building. These heat recovery plates are installed at the services floor where they can absorb a great amount of excess heat through the chimney.

KEY LEGENDS
1. Direct hit by Cold Winds
2. Mild Affect by Cold Winds
3. Little Affect by Cold Winds

The site exposure to the south westerly prevailing winds

(HEATING SYSTEM)

Reusing excess heat From Kitchen during Winter

The filter is redesigned in a different chamber due to the grease-laden characteristic of exhaust from cooking. This is to capture better the grease and utilising ultraviolet light and ozone to destroy grease accumulations and food odours in the hood.

Additional heating is supplied during winter through underfloor heating pipes cast with a top layer of screed for the spaces that requires additional heating (second floor and petite cuisine restaurant). As for the other spaces, a two-way extractor is used which extracts the air and blows out fresh air from above.

1. Excess hot air is extracted from the exhaust, with grease and soot included in the air.

2. Extracted air is filtered. The filter in the chamber is changed every 2-3 hours.

3. Pump machine to suck the air out of the vents. Heat is radiated into the heat recovery plates and transferred to the primary AHU on service level.

4. Heat is transferred to the fresh air in the AHU.

5. New hot air is distributed into the spaces.

6. Underfloor heating is used to supply additional heating to the second floor and Petite Cuisine restaurant.
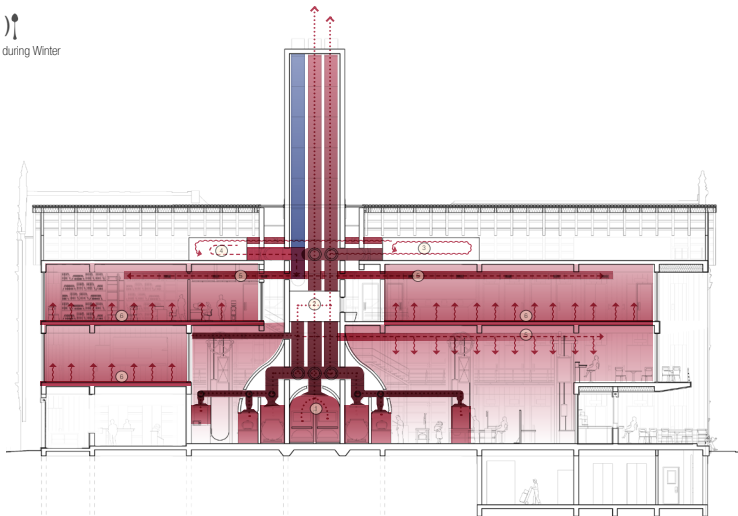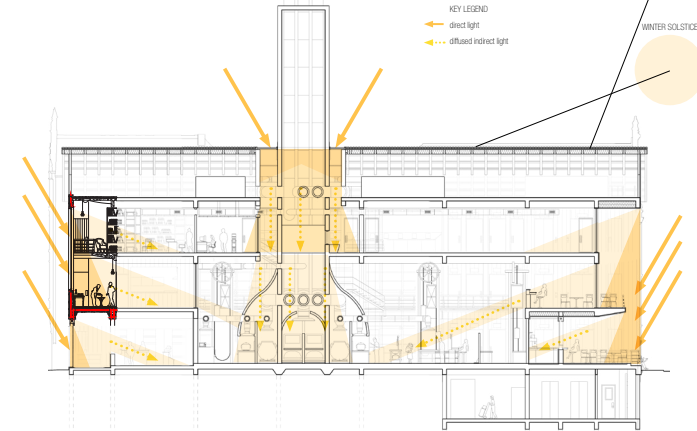
(NATURAL DAYLIGHTING)

Reusing excess Heat From Kitchen

The Community Kitchen is lit from above whereby small amounts of additional natural lights enter the space throughout the glazed roof and void around the stove and chimney during the summer solstice.

The double volume space of the Petite Cuisine is lit from above to enhance the atmosphere of the space. The light is broken up by the small slits of the windows and reflected from the copper sill creating a warm glow inside.

looking into the sky from the voids around the stove

KEY LEGEND
→ direct light
⇢ diffused indirect light
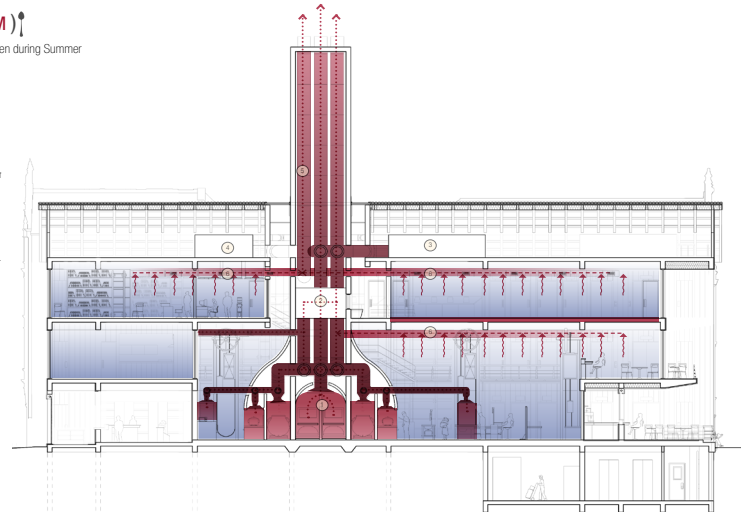
SUMMER SOLSTICE

WINTER SOLSTICE

(HEATING SYSTEM)

Extracting excess heat from Kitchen during Summer

On the other hand, during summer where heat is abundant, excess heat is expelled from the spaces through the two-way vents via a different chimney that is left unused during winter. The AHU on the service level is replaced by the AHU in the basement level to cool the building. Heat from cooking is still extracted and filtered the same way through the vents, but the pump machine closes off to any heat radiation into the plates.
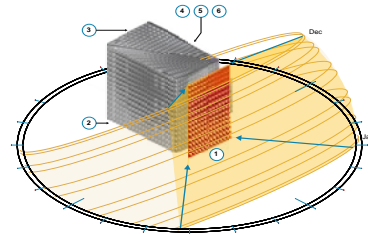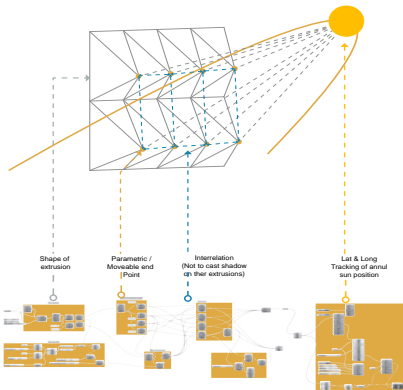
1. Excess hot air is extracted from the exhaust, with grease and soot included in the air.

2. Extracted air is filtered in the filtration chamber.

3. Pump machine sucks the air out of the vents. No heat is radiated, and all extracted is expelled outwards from the chimney.

4. AHU on service level breaks. AHU in the basement takes over.

5. Excess heat from spaces is extracted through the two-way duct.

6. An additional chimney is used to expel the excess heat extracted from the spaces

Structural System // Micro
Optimised Columns 1:20

Pre Optimised

Run 1 of Optimisation

Run 2 of Optimisation

Section
Showing poured concrete internally

Final Run
With facade panel fixings

4//
Our adaptive solar facade panels are then placed into our environmental modeling software with the exact Lat and Long co-ordinates and in then orientates the individual facade elements to ensure each element is perfectly orientated to gain maximum solar energy.
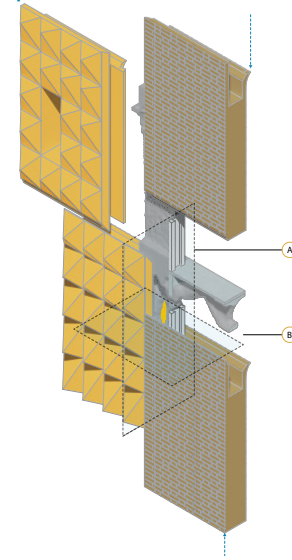

Shape of extrusion

Parametric / Moveable end Point

Interrelation (Not to cast shadow on their extrusions)

Lat & Long Tracking of annul sun position

3//
The software ensures each element catches the most solar rays without blocking solar rays from its neighborhoods.

This means that every single house designed using this software is unique. As the individual lat and long co-ordinates ensure this individuality.
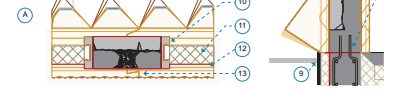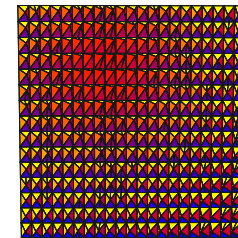
See appendix for full results

Aim

Yellow

In Between shade

Above extrusion does not block light to lower levels

Blue
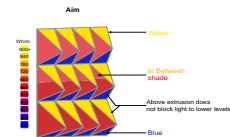
Structural System // Meso 1:10

1// 3D printed wall system minimum size 450mm x 3100mm.

2// 3D printed infil to wall system. The wave from is due to the need to only   have material where it is structurally needed.

3// Structurally optimised 3D printed column with poured concrete infill.

4// Connecting Steel Reinforcement

5// Case of structurally optimised 3D printed column with poured concrete infill.

6// floor system-
Printed ceiling panels.
Printed structural beam D-175mm W- 225mm L4600mm 3D (developed by Contour Crafting (California)
10mm Ridigur fire protection, 15mm floor deck, 45mm floating sub floor, 15mm floor finish.

7// 280 x 360mm Reinforced strip concrete foundation.

8// Passive Slab- 3x EPS 100 rigid insulation, DPM, EPS 300 L element. Concrete & recycled plastic aggregate screed flooring.

9// External floor tiles (material defined by occupant) to Protect the bottom of the printed walls from ground conditions.
Aluminum capping strip.

10// fixing junction for 3D printed wall elements to structural columns

11// 160mm deep recycled insulation containing shredded plastic from failed prints.

12// DPM

13// Junction between two printed wall elements.
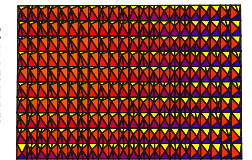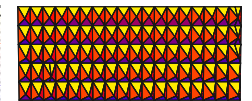
Environmental Modeling

2//

4//

5//

3//

Year 6 Realisation / Ben Robinson

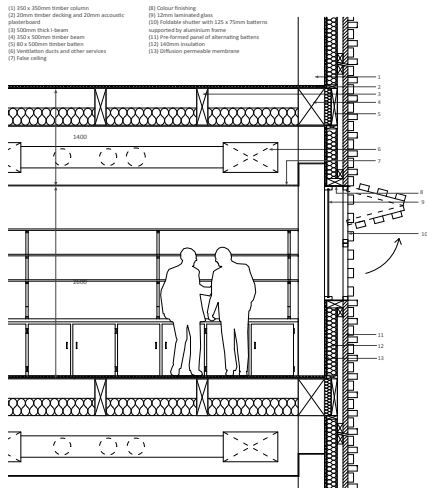An in depth study into 3D printing as a housing cosntruction solution.
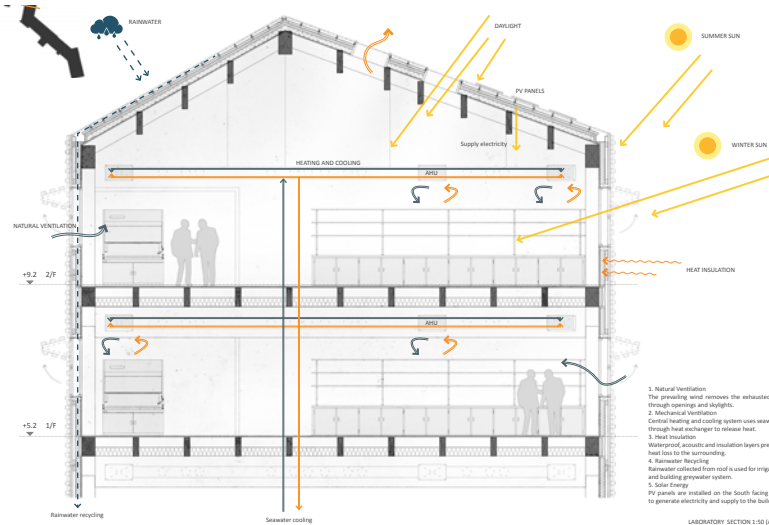
275

Technologies

FACADE | FOLDABLE LOUVER

The foldable louver controls the sun exposure and composes a permanent animation of light and shade over the course of sun. The facade of the building is shut down when there is heavy storm and rain.

(1) 350 x 350mm timber column
(2) 20mm timber decking and 20mm acoustic plasterboard
(3) 500mm thick I-beam
(4) 350 x 500mm timber beam
(5) 80 x 500mm timber batten
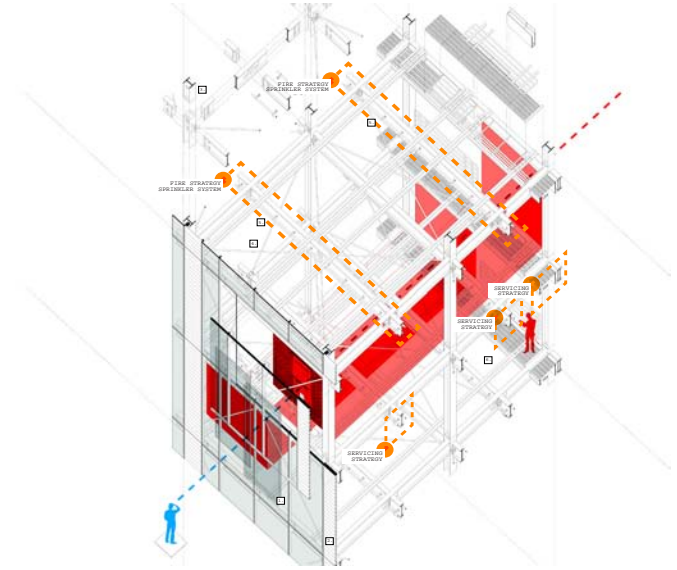(6) Ventilation ducts and other services
(7) False ceiling
(8) Colour finishing
(9) 12mm laminated glass
(10) Foldable shutter with 125 x 75mm battens supported by aluminium frame
(11) Pre-formed panel of alternating battens
(12) 140mm insulation
(13) Diffusion permeable membrane

1400

2000

RAINWATER
DAYLIGHT
PV PANELS
SUMMER SUN
Supply electricity
WINTER SUN
HEATING AND COOLING
AHU
NATURAL VENTILATION
HEAT INSULATION
+9.2 2/F
AHU
+5.2 1/F
Rainwater recycling
Seawater cooling

1. Natural Ventilation
The prevailing wind removes the exhaustes through openings and skylights.
2. Mechanical Ventilation
Central heating and cooling system uses seaw through heat exchanger to release heat.
3. Heat Insulation
Waterproof, acoustic and insulation layers pre heat loss to the surrounding.
4. Rainwater Recycling
Rainwater collected from roof is used for irrig and building greywater system.
5. Solar Energy
PV panels are installed on the South facing to generate electricity and supply to the buil

LABORATORY SECTION 1:50 (

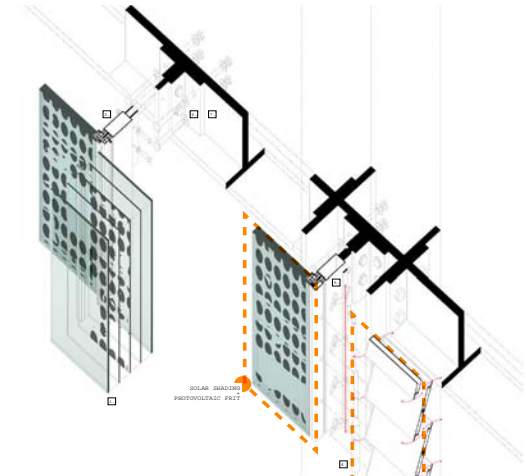**Year 6 Realisation / Chan Ching**

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Storage Hall Detailed Axonometric
1:50 at A2

FIRE STRATEGY SPRINKLER SYSTEM
FIRE STRATEGY SPRINKLER SYSTEM
SERVICING STRATEGY
SERVICING STRATEGY
SERVICING STRATEGY

1. Double glazing curtain wall unit
2. Mechanical louvre curtain wall unit
3. Steel primary structure. Coated in intumescent paint where exposed
4. Steel bracing tension cables within braced areas
5. Sprinkler system
6. Module storage rails for access from gantry cranes

32 | 33

Glazing and Louvre Units Detailed Axonometric
1:5 at A2

SOLAR SHADING
PHOTOVOLTAIC FRIT

1. Double glazing unit with integrated ceramic photovoltaic frit
6mm float glass;
Polyvinyl butyral adhesive;
Printed ceramic photovoltaic cells;
Polyvinyl butyral adhesive;
6mm float glass.
2. Powder coated aluminium frame with various thermal breaks
3. Powder coated aluminium louvres with various thermal breaks
4. Mechanical louvre unit motor and hydraulic arm
5. Aluminium hinges connect each louvre to the motor / hydraulic arm to operate each unit
6. Steel bolted connection plates

Year 6 Realisation / Henry Faulkner

Technologies

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Professional Studies

Rob Hyde, John Hickey.

The unit is jointly delivered between the School and the RIBA for parity with the Part 3 course that is delivered from the RIBANW. This close connection allows the course at Manchester to react quickly, allowing it to both track [and feedback into] the RIBA Part 3 course.

It is a vehicle to connect internally - students sharing previous experience/ career aspirations and bringing together the many Atelier studio cultures into one forum.It also is a vehicle to connect externally - for dialogue between the students, school, alumni, profession, practicing professionals and experts from Architecture and related fields, allowing for flexibility/ adaptability in real-time to respond to emerging issues/ trends and therefore maintain its relevance.

Objectives include:

Providing a basic toolkit to enable the production of Architecture [in its widest sense and by whatever route] - helping the student to articulate their studio position into a real world context.
Fulfilling and going beyond the ARB/ RIBA Criteria for Part 2 and giving introduction to Part 3 while still being relevant for those opting for alternate routes.

Creating a genuinely reflective knowledge exchange forum to enable the student to provoke, question and debate with diverse visiting experts, tutors and each other.

Enabling a dialogue on adaptability between the orthodoxy of conventional architectural production and alternatives within the context of a rapidly evolving and expanded contemporary professional field and the wider society.

-Promoting awareness of future contexts [challenges and opportunities] of emerging issues [Housing crisis, devolution etc] and future forms of practice/ praxis [Collaborative/ multi/inter-disciplinary, systems design, digital fabrication, research based practice etc.]
-Encouraging students to be neither optimistic nor pessimistic- rather to be opportunistic.
-Supporting symbiosis with studio [without one driving the other]

CONTENT

The content (along with Atelier Studio Units) prepare students for future employment (and Part 3) in respect of the knowledge and understanding of the profession and related procedures, industries and organisations in the contemporary setting of Architecture and the need to be flexible/ adaptable to future disruption or even to be disruptors themselves.

The course is both focused/expansive and procedural/ reflective looking at the role of the Architect (and the Architecturally trained) in the short, medium and long term in respect of the context of operation (challenges and opportunities) and through both orthodox and unorthodox alternatives at the core, periphery, edge of property and construction (and beyond).

Teaching consists of an extensive series of lectures, master-classes and workshops delivered by regional, national and international experts and authoritative figures who are engaged in contemporary design, development and practice and those across all relevant sectors of business and industry.

This comprises of Project Management/ Industry Context, Management/ Business Context, Diverse Engagement/ Operation components as well as MSA+ led talks on employability/careers and one off events/ talks connecting practice and academia. This is supplemented by weekly contextualising seminars/ discussions/ Q+A Sessions [before/after specialist input], one to one surgeries, group tutorials, weekly focussed reading and associated online material.

In addition there are knowledge exchange platforms to encourage collective intelligence [through sharing, discourse and reflection] allowing students to engage with each other [and practitioners] on current/ future issues and to share their own experience to date and thoughts on their own future career trajectories. Integration with the students own studio work, is encouraged in terms of understanding Professional Studies through the position of their Atelier Culture and their personal thesis project [and vice versa] through students engaging with studio practitioner collaborators as well as Planning, Building Control, Community Consultations etc. within their project sites.

OUTPUT

The output of the unit is a personal positioning document. This is an opportunity to critically appraise current processes/ suggest alternatives and to map the personal potential career trajectory[s] through the lens of their atelier/ studio work and experience to date, exploring where and how they wish to operate/ engage in society.

This consists of:
1/ Correspondence [client file of letters, proposals, reports, commentary, advice] related to stages of lecture delivery. To conclude, there is a summary critical appraisal on the complexity and effectiveness of the current processes and speculation on how differing approaches might improve them [i.e. non-traditional ways to calculate fees/ value, integrated decision making systems for planning/ building control etc]
2/ An essay reflecting on the historic, current and future [short, medium and long term] of 'Architect/ure[s] role, definition and production within diverse future contexts. Students are encouraged to think temporally [speculate how they will adapt to emerging issues and disruptors as opportunities and problems] and also in terms of geography [regional variances].
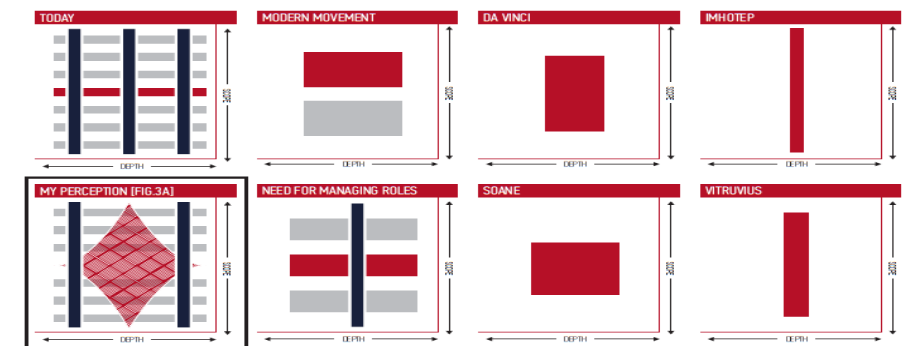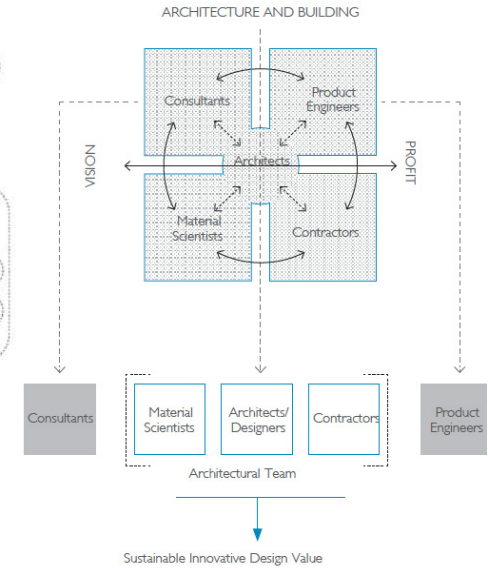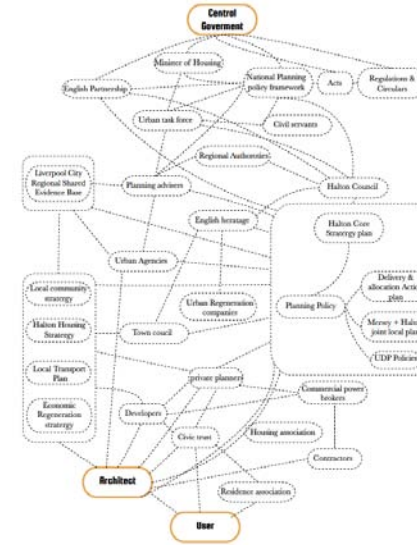
Top Left: Power Brokers / Ben Robinson
Top Right: Adapted from Timberlakes, AQAL Model / Charlotte Garrett
Bottom: Role of the Architect / Ameya Bhusari

Project Management/ Industry Context Workshops

ARB/ RIBA
Professionalism and conduct, RIBA, ARB, Part 3 .
Alison Mackinder Part 3 Course Director, RIBA UK/ International /Elaine Stowell ARB ARB

FEES/ SURVIVAL
Context for practice and profession/ appointments fees and services.
Adrian Dobson Director of Practice for the RIBA/ JHickey

LAW, AND PROFESSIONAL RESPONSIBILITIES
The basis of law, ADR , and contracts/ easements, rights of light and property law, party walls
Helen Sutton Solicitor, Freeths Solicitors/ Delwyn Jones Head of Building Consultancy, Matthews and Goodman

BACKGROUND TO PLANNING
Planning Law, policy and implementation
Denise Emery Emery Partnership/ Tony Whitehead Whitcoplan

DESIGN INFORMATION MANAGEMENT - DOCUMENTATION, BRIEFING, SPECIFICATION
Design information management, briefing, specification.
Richard Teale Chief Editor, NBS Specification/ RIBA Enterprises

CONSTRUCTION LEGISLATION
Building Act/Equality Act/ Health and safety
Wayne Timperley Manchester City Council Building Control, Jane Simpson Jane Simpson Access, Paul Bussey Health & Safety Scott Brownrigg

VALUE, PRICE, COST IN DESIGN
Viability/ Project financial appraisal, value/ price/ cost Management

Ken Bishop Senior Director, DTZ, John Gardiner/ Bill Ibram Owner, Tozer Gallagher LLP

URBAN DESIGN, REGENERATION AND CONSERVATION
Urban design, regeneration/ Heritage, conservation
Steve Curwell Ex-Professor, Salford and Leeds School of Architecture Head of School, Ken Moth Chairman, AABC and Victorian Society and ex BDP Director

INTEGRATED WORKING, INTEGRATED PROJECT DELIVERY ,IPD AND COLLABORATION ,BIM - DESIGN MANAGEMENT PROCESS /DOCUMENTATION
Integrated project delivery / Collaboration/ Documentation
Jonathan Baldwin Associate Director, AECOM Specifications/ JHickey/ Arto Kiviniemi Professor of Architecture/ BIM, Liverpool University

INTEGRATED PROCUREMENT
Procurement / QM Systems
Stewart Grant Partner, Pozzoni LLP/ Nigel Ostime Principal, Whiteroom Architecture Limited and Director, Rational House

INTEGRATED TEAM: COLLABORATIVE WORKING + RESPONSIBILITIES/ DESIGN MANAGMENT AND BRIEFING
Integrated working / Managing the process
Ajay Parag Design Manager, Laing O' Rourke/ Dr Ricardo Codinhoto Architect, Engineer and Project Manager - Senior Lecturer in Architectural Design and Building Information Modelling Salford University

CAREERS SESSIONS ,Across Semester 1
Applications/ Networking/ Interviews/ CVs/ Portfolios
Jan Moore Careers, MMU

Business/ Management Context Workshops

CONTEXT/ INDUSTRY/ PROFFESION	JHickey
LAW BUSINESS STRUCTURE EMPLOYMENT LAW	Alan Lewis Partner, Freeths Lawyers
MARKETING PRINCIPLES	Gordon Jones Director, Gordon Jones
Marketing	
MARKETING STRATEGY	Ray Clarke Director,
Shaping Business	
BUSINESS PLANNING	Chris Booth Partner,
McLellands Accountants	
MANAGEMENT/ MANAGING BUSINESS	Prof Len Collinson VP Entrepreneur-
ship, UCLAN	
BUSINESS FINANCE/FUNDING	Prof Peter Folkman
VP Business Strategy, MBS	
TURNOVER/PROFIT/LOSS/CASH-FLOW/TAX	JHickey
RISK INSURANCE	Alan Eyres MD, Tow-
ergate PII	
QA/QM/PM SYSTEMS	Stuart Bell MD, Union
Square	
LIFELONG LEARNING CPD IN PRACTICE	Joni Tyler CPD Director, RIBA

Diverse Engagement /Operation in Architecture Practice/ Practitioner Case Studies, Type/ Scale/ Service etc

CIVICS SYMPOSIUM

A unique collaborative event themed around the idea of Civics and Architecture for the public good with those engaged with these themes from different perspectives.

An opportunity to zoom out and consider what architecture is really for ?, and perhaps more importantly who it is really for ? - To think about alternate pathways/ trajectories for careers, beyond simply traditional private practice/ consultancy.

DIVERSE PRACTICE FUTURE OF ARCHITECT/URE	Rory Hyde Curator of Contemporary Architecture Urbanism, VA
ARCHITECT HUMANITARIANISM/ RESEARCH	Julia King Runs design and research practice in Delhi in collaboration with Indian NGO CURE, Centre for Urban and Regional Excellence
ARCHITECT ACTIVISM/RESEARCH	Malkit Shoshan Architect, researcher, writer founder of the Amsterdam based architectural think-tank FAST - Foundation for Achieving Seamless Territory
ARCHITECT STAKEHOLDER ENGAGEMENT	Daisy Froud Co-founder of the AOC - Experienced in stakeholder engagement and collaborative planning
ARCHITECT PLANNING	Finn Williams Founder of Common Office Architects and currently Regeneration Area Manager at Greater London Authority and ex -Croydon Council
LARGE REGIONAL	Stewart Grant Director, Pozzoni
SMALL SPECIALIST OF-SITE/ PASSIVHAUS	Roger Burton Director, Nvirohaus
SMALL DESIGN-LED	David McCall Director, OMI
MULTI-NATIONAL/DISCIPLINARY	Gavin Elliott Director, BDP
PART 3 PREPERATION	Alison Mackinder RIBA
MICRO SPECIALIST SUSTAINABILITY	Derrie OSullivan Sole Trader
CONTRACTOR/ DESIGN BUILD ARCHITECT	Peter Trebilcock Director, Balfour Beatty
DIRECTOR SPORT ENGLAND/ OLYMPIC ARCHITECT	Geraint John Senior Advisor, Populous
ARCHITECT AS DEVELOPER/ CONTRACTOR	Ross Gates Ex Director, Laing ORourke and Apple
ARCHITECT AS CLIENT	Peter Moore Head design/development, Dubai airport
SPECIALIST MANUFACTURING	Jamie Johnson Bryden Wood Associates

This was a cross school event focused on future careers featuring a keynote talk from Harbinder Birdi [Partner, Hawkins Brown] and a Panel Session with a number of major local and national employers [Traditional Practices, Contractors, Manufacturers, Digital Agencies etc]

Keynote Evening Lectures - X3 Talks on Disruption

DIVERSE ENGAGEMENT/ DISRUPTING THE ROLE Paul Simons (Architect/Project Manager/ Bath Tourism Director/ Carpenter/ Contractor/Conservation Specialist/ Spa Town development consultant)

ARCHITECTS: DISRUPTORS OF THE FUTURE? Richard Saxon CBE (Former Chair BDP)

BUILDING A PLATFORM FOR SUSTAINABLE DISRUPTION Cliff Moser (Director, Facilities, Planning Design, National Facilities Service, Kaiser Permante and Author or Architecture 3.0)

Future Cities

There were many one-off events such as Future Cities+ which was a CPU Atelier, MSA+ and Professional Studies organised series of talks which attracted leading academics, business leaders and policymakers from around the UK. Talks included: Future City+ Urban Innovation/Integration (Dan Hill, Chief Design Officer at Future Cities Catapult) Future City+ Future Practice (Rory Hyde, curator of contemporary Architecture + Urbanism at the V+A and author of Future Practice) Future City + Digital and Beyond (Tom Cheesewright, Applied Futurist at Book of the Future) The day concluded with a panel session on Designing with Data including speakers from the day along with Steve Turner (Head of Future Cities, Manchester City Council), Dave Carter (Ex Head of Manchester City Council's Digital Development Agency), Emilia Plotka (Policy Officer at RIBA), Ulysses Sengupta and Rob Hyde (Complexity Planning and Urbanism Atelier at Manchester School of Architecture)

MA Architecture + Urbanism

Eamonn Canniffe
Guest critics: Jaimie Ferguson, Julie Fitzpatrick, James Dyson.

HAPPINESS IN THE CITY: URBAN LESSONS FROM COPENHAGEN

Aissa Sabbagh Gomez

The MA Architecture + Urbanism continues its research into the changing nature of cities around the world. Affected by conflict, decline, over development, rapid growth, tourism, inequality cities respond in different ways through different diagnoses and different treatment strategies. And so do we as architects and urbanists. To be frank sometimes its less like A+U and more like A+E.

What better way to commence the year's research into urban malady than by visiting Birmingham? MA A+U took part in an international design competition proposing a new configuration for Centenary Square in the city. A taught postgraduate course isn't all fun and games, though ,as we also conducted field visits to other unfamiliar locations such as Stockport and Sheffield, collecting more urban samples.

A period of intense training known for unspecified reasons as 'dissertation boot camp' then invigorated the group for its observation of a northern incursion by the University of Bath, attempting to remedy Collyhurst through the means of an urban design workshop held in a surprisingly warm and sunny April.

While one member of the group (you know who you are!) appeared to impede Louis van Gaal's first season at Old Trafford, everyone took delight in the wise and perceptive contributions of the 'Official MA A+U Baby' Aldo, and his views on this September' forthcoming thesis projects listed below.

A NEW TYPE OF RESIDENCE IN HANGZHOU

Chang Chen

RE-IMAGINING THE GARDEN CITY FOR CHESHIRE

Leah McKnight

STOPFORDION CAPPROCI GRAFTING A HALF-TIMBERED STOCKPORT

David Chandler

SPACE AND MEMORY IN POST-WAR ALEPPO

Meisoon Jumah

PROTECTION OF HUBEI OLD VILLAGE SHENZHEN

Peiwu Fang

RENOVATION OF TEAHOUSE BLOCKS IN CHANGSHA

Honghao Zeng

ENHANCING THE WORLD HERITAGE SITE MAHABALIRURAM

Preethi Madhana Kumar

SLOW LARNACA A SUSTAINABLE FUTURE DEVELOPMENT

Thrisvi Christou

Lectures and Talks

At the School, we not only have a rich portfolio of programmed events that are central to the courses, we also have a broad range of lectures, seminars and talks organised by our student society and with external partners. These are opened up to the wider profession and to the public and are part of our outward facing activities that strengthen our relationship with the city, the region and further afield.

This year we were pleased to host the Liveable Cities Conference organised in collaboration with the Danish Embassy and the RIBA NW. Across one week in November 800 people were registered for the 12 seminars, screenings and receptions. 35 speakers and chairs, representing key Danish and British architectural practices, engineering firms, developers, manufacturers and academic institutions, contributed with insightful, thought provoking and inspiring presentations.

The Manchester Student Society of Architects organised a series of lectures until the title 'Before You're 30', wherein they invite influential speakers to talk about what they view as important to young designers and early career professionals in architecture and the allied arts and professions.

Under the banner of Continuity in Architecture (CiA), Laura Sanderson arranged the Sinister Dialogues symposium where invited speakers talked about their architectural interventions at sites with uncomfortable, terrible or destructive histories.

The following pages contain all of the details of each event.

|Chris Edmunds|

3 influential speakers · 30 minutes each
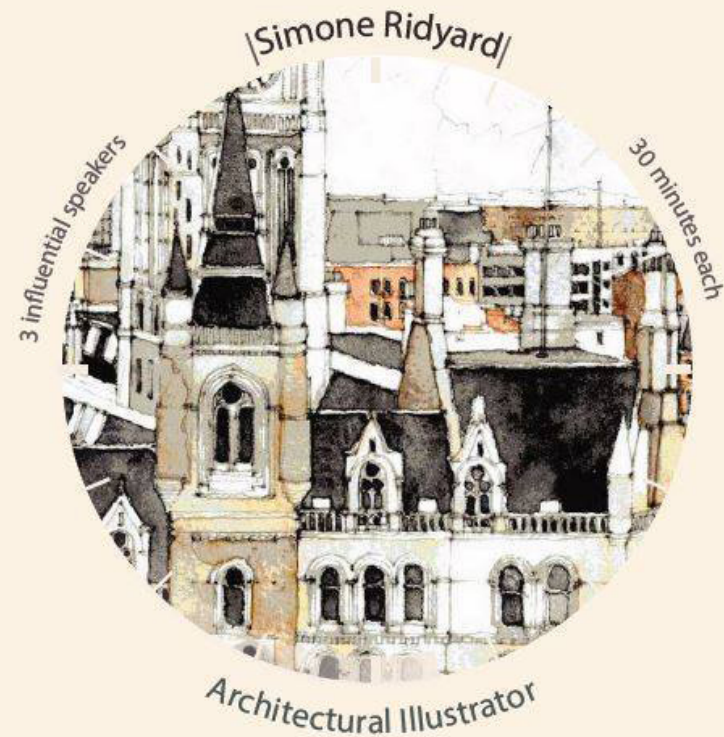
Founder of United Creatives
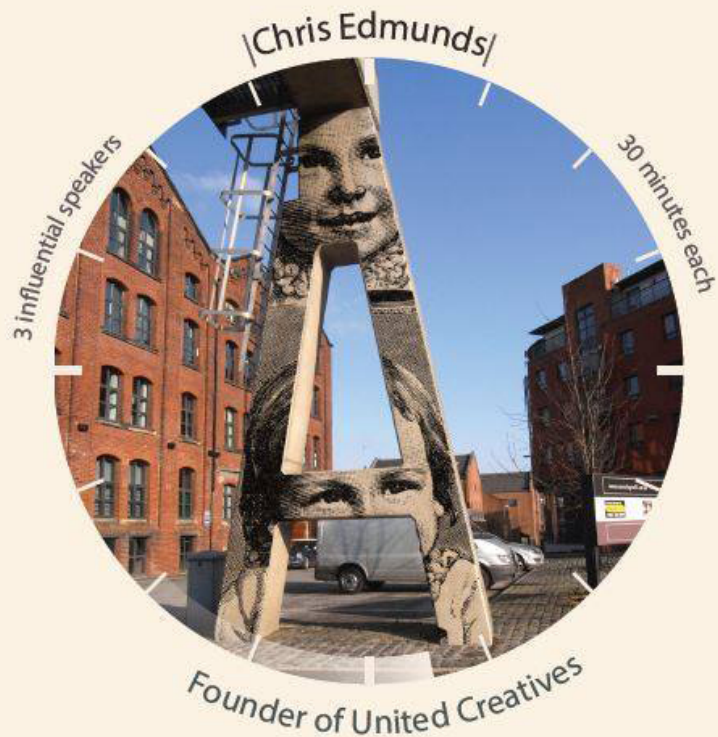
United Creatives is a Manchester based design agency with a global client reach in the sectors of environmental branding, landscape architecture, public art and graphic design.
True to their name they are a band of multidisciplinary designers, thinkers, artists and makers.
Theirs is a journey beyond paper and ink.

MONDAY 08/12/2014 18:00h
at INTERNATIONAL ANTHONY BURGESS FOUNDATION
Food and drinks available at the bar

Get there 30*

*Get there at 6 p.m. for a us top.m. start [a cambridge street] [un s ar]
BEFORE YOU'RE 30 | Architecture/Art + Design Informal Lecture Series

SPONSORED BY
BDP.   Artide   msa   m³sa   30 http://by30.org   @beforeyoure30   /beforeyourethirty

|Simone Ridyard|

3 influential speakers · 30 minutes each

Architectural Illustrator

Simone is a Manchester based architect and senior lecturer in Interior Design at Manchester School of Art.
The value of pen, pencil and watercolour in the communication of space and buildings are deeply embedded in her work. Whilst teaching in Singapore in 2011 she discovered the global Urban Sketching community and set up a sketching group in Manchester.

MONDAY 08/12/2014 18:00h
at INTERNATIONAL ANTHONY BURGESS FOUNDATION
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Get there 30*

*Get there at 6 p.m. for a us top.m. start [a cambridge street] [un s ar]
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SPONSORED BY
BDP.   Artide   msa   m³sa   30 http://by30.org   @beforeyoure30   /beforeyourethirty

294   295

|Material Politics|

3 influential speakers

30 minutes each

MATERIAL POLITICS

Dr. Leandro Minuchin, Aida Rodriguez-Vega
Ellie Shouer, Eira Capelan, Patrick Cronin

Leandro, Aida, Ellie, Eira and Patrick have been working on a project in Ecuador in collaboration with
the ministry of housing. The project is for a new participatory semi-self built housing typology
which incorporates a production unit and vernacular materials for a large informal area of Guayaquil.

THURSDAY 09/10/2014
at INTERNATIONAL ANTHONY BURGESS FOUNDATION
Food and drinks available at the bar

Get there **30***
BEFORE YOU'RE

*Get there before 6pm | 3 Cambridge Street | M1 5BY |
BEFORE YOU'RE 30 | Architecture, Art + Design Informal Lecture Series

SPONSORED BY
BDP.   Article 25   **msa**   m⁵sa   30 http://by30.org   @beforeyoure30   /beforeyourethirty

|Phil Griffin|

3 influential speakers

30 minutes each

Writer, Broadcaster and Curator

Phil Griffin was born in Manchester and has for long had a special interest in architecture.
He has contributed to national architectural
journals such as Building Design, Architects Journal and RIBA Journal.
His recently published book MANCHESTER is 'not a guidebook, nor memoir.
It is, perhaps, more a manual for people who will always use the city and take great pleasure from it.'

THURSDAY 09/10/2014
at INTERNATIONAL ANTHONY BURGESS FOUNDATION
Food and drinks available at the bar

Get there **30***
BEFORE YOU'RE

*Get there before 6pm | 3 Cambridge Street | M1 5BY |
BEFORE YOU'RE 30 | Architecture, Art + Design Informal Lecture Series

SPONSORED BY
BDP.   Article 25   **msa**   m⁵sa   30 http://by30.org   @beforeyoure30   /beforeyourethirty

BEFORE YOU'RE 30

THREE influential speakers

THIRTY minutes each

FREE entrance

WEDNESDAY 6pm

11/02/2015

at INTERNATIONAL ANTHONY BURGESS FOUNDATION
3 Cambridge Street | M1 5BY

Je Ahn
Architect

Je is a founding director of Studio Weave. He is an RIBA Chartered Architect and studied Architecture at the University of Bath, TU Delft (The Netherlands) and London Met. Prior to setting up Studio Weave, Je worked on a range of projects from renovating historic houses in West London to the City of London's largest office development, to Crossrail. Je is a visiting critic at a number of universities in the UK and abroad and recently external examined at KTH in Stockholm. He is also a member of the Southwark Design Review Panel.

SPONSORED BY
BDP. msa m^{s}sa | /beforeyoure30 @beforeyoure30 /beforeyourethirty

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BEFORE YOU'RE 30

THREE influential speakers

THIRTY minutes each

FREE entrance

WEDNESDAY 6pm

11/02/2015

at INTERNATIONAL ANTHONY BURGESS FOUNDATION
3 Cambridge Street | M1 5BY

Ricardo de Ostos
Architect

Ricardo de Ostos is co-founder of London based NaJa & deOstos, an architectural studio exploring symbiotic relations between emerging cultural patterns and architectural narratives. Ricardo de Ostos and Nannette Jackowski are Unit Masters at the Architectural Association and at the Bartlett School of Architecture in London. Together they are authors of The Hanging Cemetery of Baghdad (Springer, 2007), Pamphlet Architecture 29: Ambiguous Spaces (Princeton Architectural Press, 2008) and Scavengers and Other Creatures (Architectural Association, 2015)

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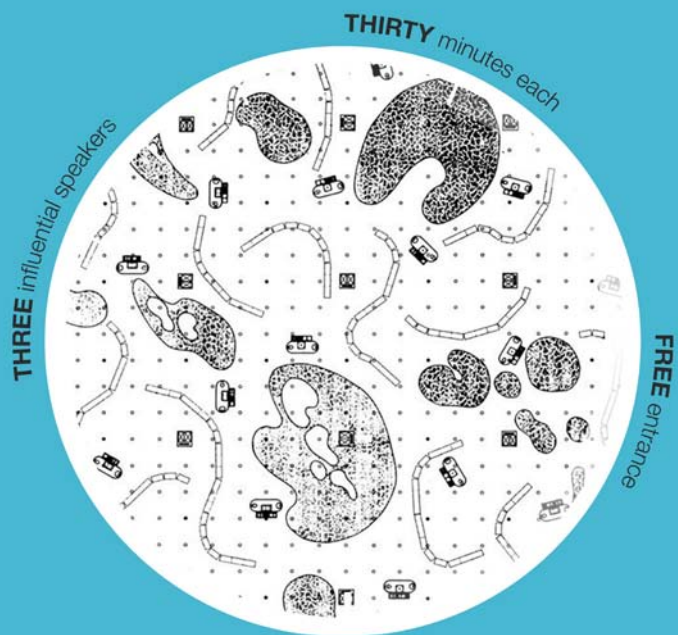**BDP.** msa m^{s}sa | /beforeyoure30 @beforeyoure30 /beforeyourethirty

BEFORE YOU'RE 30

THREE influential speakers

THIRTY minutes each

FREE entrance

TUESDAY 6pm
12/05/2015

at INTERNATIONAL
ANTHONY BURGESS
FOUNDATION
3 Cambridge Street | M1 5BY

Nick Dunn

Professor of Urban Design at Lancaster University

Professor's work for the UK Government Office for Science and projects such as the EPSRC-funded Liveable Cities contributes to the wider discourse surrounding the current characteristics and potential future scenarios of the urban landscape in a range of contexts. In particular, he is interested in why and how (maybe even where and when) we design, rather than what we design. Nick Dunn has published numerous books related to architecture and urbanism and his papers have been published and presented internationally and collaborative creative work exhibited across the UK and China.

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TUESDAY 6pm
12/05/2015

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FOUNDATION
3 Cambridge Street | M1 5BY

Deny Jones

Architect and tutor at the MSA

Deny Jones is an experienced Architect and Urbanist. In September 2011 Deny relocated to Namibia where he spent three years re-structuring a series of towns and cities. Deny will be spending 30 minutes discussing this unique experience.

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|CJ Lim|

3 influential speakers

30 minutes each

Author of 'Food City' + Architecture Professor at Bartlett

CJ Lim is the founder of Studio 8 Architects. His practice engages in multi-disciplinary design and innovative interpretations of environmental sustainability programmes in urban planning, architecture and landscape. His recently published book "Food City" explores the issue of urban and architectural transformation and how the creation, storage and distribution of food has been, and can again become, a construct for the practice of everyday life.

MONDAY 17/11/2014
at INTERNATIONAL ANTHONY BURGESS FOUNDATION
Food and drinks available at the bar

BEFORE YOU'RE
Get there 30*

*Get there before 6pm | 3 cambridge street | m1 5bY |
BEFORE YOU'RE 30 |Architecture, Art + Design Informal Lecture Series

|Jane Leach|

3 influential speakers

30 minutes each

Founder of i-architect

Jane studied at Edinburgh College of Art and Escola Superior De Barcelona and has gained a lot of experience in the UK and abroad throughout her career.
Her influential talk will be concentrated on the conflict between energy and the conservation of heritage.

MONDAY 17/11/2014 18:00h
at INTERNATIONAL ANTHONY BURGESS FOUNDATION
Food and drinks available at the bar

BEFORE YOU'RE
Get there 30*

*Get there at 6 p.m. for a 6.30 p.m. start | 3 cambridge street | m1 5bY |
BEFORE YOU'RE 30 |Architecture, Art + Design Informal Lecture Series

BEFORE YOU'RE 30

THIRTY minutes each

THREE influential speakers

FREE entrance

THURSDAY 6pm
22/01/2015

at **INTERNATIONAL ANTHONY BURGESS FOUNDATION**
3 Cambridge Street | M1 5BY

Alice Kettle
Textile artist

Alice Kettle's work explores the deep material connection of the cultural and human condition. Her work is in collections such as the Crafts Council London, the Whitworth Art Gallery in Manchester, the Museo Internationale delle Arti Applicate Oggi, Turin, Italy, Museum of Decorative Art and Design, Riga, Latvia, Shipley Museum and Art Gallery Gateshead.

She is Senior Research Fellow in MIRIAD Manchester School of Art and is Visiting Professor at the University of Winchester.

BEFORE YOU'RE 30

THIRTY minutes each

THREE influential speakers

FREE entrance

THURSDAY 6pm
22/01/2015

at **INTERNATIONAL ANTHONY BURGESS FOUNDATION**
3 Cambridge Street | M1 5BY

Hilary Jack
Artist

Hilary works across media in research based projects which often involve the collection, repair and regeneration of found objects in site referencial projects, public interventions and installations.

Hilary was selected as one of the Arts Council England commissions for Barnaby Festival 2014 and is currently exhibiting three new commissions for Packwood Follies at Packwood House in Warwickshire.

BEFORE YOU'RE 30

THREE influential speakers
THIRTY minutes each
FREE entrance

MONDAY 6pm
23/03/2015

at INTERNATIONAL
ANTHONY BURGESS
FOUNDATION
3 Cambridge Street | M1 5BY

Bruce Bell

Architect

A Facit Home combines the guarantee of quality that comes with factory fabrication with the luxury of having award winning Architects & Designers working to create modern homes like no other.
Bruce Bell is the founder of Facit Homes and creative force behind the company as a whole. He brings to projects experience of having being taught by and worked with the world's best Architects and artists such as Ron Arad, Norman Foster and Antony Gormley to name but a few.
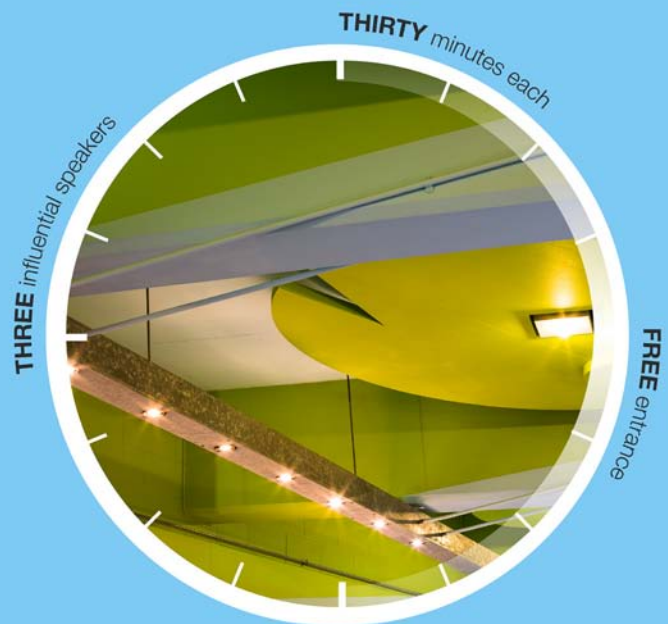
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FREE entrance

MONDAY 6pm
23/03/2015

at INTERNATIONAL
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MUSTARD Architects

Architectural practice

MUSTARD Architects creates award winning, contemporary, sustainable architecture with ideas at the heart of everything they do. The studio crafts projects to ensure they are functional yet unexpected and inspirational.

They are also wondering who they are.

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THIRTY minutes each

FREE entrance

MONDAY 6pm
23/03/2015

at **INTERNATIONAL**
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FOUNDATION
3 Cambridge Street | M1 5BY

vPPR

Architectural practice

vPPR is an emerging architecture practice based in East London, that has quickly gained recognition for its striking and theatrical proposals. The practice is currently designing residential, public, commercial and urban projects in the UK, the USA and Russia.

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THE LIVEABLE CITY
A DANISH-BRITISH DIALOGUE IN MANCHESTER,
EXHIBITION AND SEMINARS 20—27 NOVEMBER

INVITATION

SEMINAR — CIVILISED CYCLING
THURSDAY 20 NOVEMBER 2014
HOW TO GET GRANNIES AND CHILDREN ON THEIR BIKES
Chair: **Tom Jefferies,** Professor, Head of MSA
Klaus Bondam, Director of the Danish Cyclists' Federation
Helen Ramsden, Head of Travel Choices and Active Travel,
Transport for Greater Manchester
Marianne Weinreich, Head of Mobility, Veksø
Sten Sødring, Head of Communications, Gottlieb
Paludan Architects

Cycling should be considered a practical, everyday means
of transport, not an extreme sport reserved for Lycra-clad
young men. How do we get more grannies and children
to cycle? And how can this help to improve traffic safety,
attract tourists and create people-friendly, liveable cities?

1.30pm   REGISTRATION AND REFRESHMENTS
2.00 — 4.30pm   SEMINAR

FREE ADMISSION
Sign up

VENUE
Manchester School of Art — Benzie Building
Manchester Metropolitan University

See Map

EXHIBITION

CONTEMPORARY DANISH ARCHITECTURE
The exhibition shows some of the highlights of
contemporary Danish architecture and gives a unique
insight into the core values that Danish architecture
embodies: a green, environmentally sustainable profile
and an empathetic and democratic approach, in which
good design and great architecture are not reserved for
the elite.

FREE ADMISSION
OPEN 20—27 NOVEMBER 2014
Manchester School of Art — Benzie Building

See full programme for The Liveable City

IN PARTNERSHIP WITH:

INVITATION

SEMINAR — FACADES MATTER
TUESDAY 25 NOVEMBER 2014
THE FACE OF ARCHITECTURE
Chair: **Ged Couser,** Architect Director, BDP
Robert Knudsen, Dominator Technology ApS
Mike Lee, RMIG Ltd
Esben Øster, A/S HAI Horsens
Søren Ravn, Sjølund A/S

RIBA members and other construction professionals are
invited to a free CPD event focusing on facade materials.
Danish companies with expertise in facades will present
their solutions. Specialising in respectively coating,
perforation, polymer technology and roll forming, the
companies' products make it possible to create unique
constructions for leading architecture.

1.30pm   REGISTRATION AND REFRESHMENTS
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A DANISH-BRITISH DIALOGUE IN MANCHESTER,
EXHIBITION AND SEMINARS 20—27 NOVEMBER

INVITATION

SEMINAR — FOCUS GROUP – ICT
THURSDAY 20 NOVEMBER 2014
**TURNING PROJECT MANAGERS INTO BUSINESS
MANAGERS**
Jørgen Korsgaard, owner, AutoPilot

Danish company AutoPilot will introduce its philosophy of
turning project managers into business managers through
efficient project management, registration and invoicing.
AutoPilot is considering a UK entry and to that end invites
up to 20 British architects and consulting engineers for an
exchange of views and information on current project
management practices in the UK and feedback on the
AutoPilot concept.

Autopilot is the industry standard in Denmark, when it
comes to providing architects with simple, efficient tools
for running their business and projects. An independent
survey has shown that Danish Architects using AutoPilot
are 40% more profitable.

1.30pm   **REGISTRATION AND REFRESHMENTS**
2.00 — 4.30pm   **SEMINAR**

FREE ADMISSION
Sign up, please contact Per Kaag Anderson, pkande@um.dk

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Manchester Metropolitan University

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OPEN 20—27 NOVEMBER 2014
Manchester School of Art — Benzie Building

See full programme for The Liveable City

IN PARTNERSHIP WITH:

INVITATION

SEMINAR — GROWING HEAT NETWORKS
THURSDAY 20 NOVEMBER 2014
A SMARTER WAY TO KEEP WARM IN THE NORTH
Guy Boulby, DECC director of heat networks
Jonathan Sadler, Environmental Strategy Manager,
Manchester City Council
Dr. Anthony Riddle, Associate Director Rambøll
Anders Hasselager, Senior Policy Advisor, Danish
Energy Agency

There is increasing recognition of the important role to be
played by heat networks in delivering sustainable cities.
Heat networks provide a lower carbon solution to heat
provision that is also cheaper for consumers, and they
enable us to use a range of sources including surplus and
renewable heat. Growing Heat Networks offers insights to
what the industry can expect in 2015, the future plans for
heat networks in Manchester, as well as views from leading
practitioner Rambøll.

9.30am   **REGISTRATION AND REFRESHMENTS**
10.00am — 13.00pm   **SEMINAR**

FREE ADMISSION
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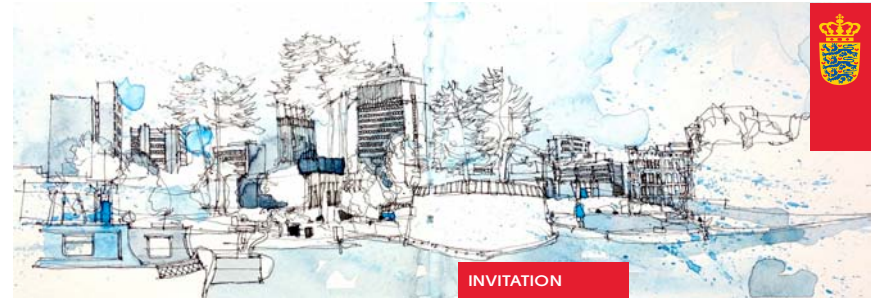
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THE LIVEABLE CITY
A DANISH-BRITISH DIALOGUE IN MANCHESTER,
EXHIBITION AND SEMINARS 20—27 NOVEMBER

INVITATION

SEMINAR — HOLISTIC CITY DEVELOPMENT
MONDAY 24 NOVEMBER 2014

STRATEGIES FOR INTEGRATING UNIVERSITIES IN THE CITY
Helle Frost, Partner, Juul & Frost Architects
Ruairidh Jackson, Senior Project Director, Argent

A holistic, future-proof and sustainable campus improves
the dialogue between the university, the city and its
businesses. By inviting business world in, the modern
campus can become the missing link between academia
and enterprises - an urban hub for innovation and growth.

1.30pm   REGISTRATION AND REFRESHMENTS
2.00 — 4.30pm   SEMINAR

FREE ADMISSION
Sign up

VENUE
Manchester School of Art — Benzie Building
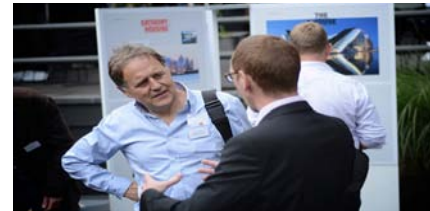Manchester Metropolitan University

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FREE ADMISSION
OPEN 20—27 NOVEMBER 2014
Manchester School of Art — Benzie Building

See full programme for The Liveable City

IN PARTNERSHIP WITH:
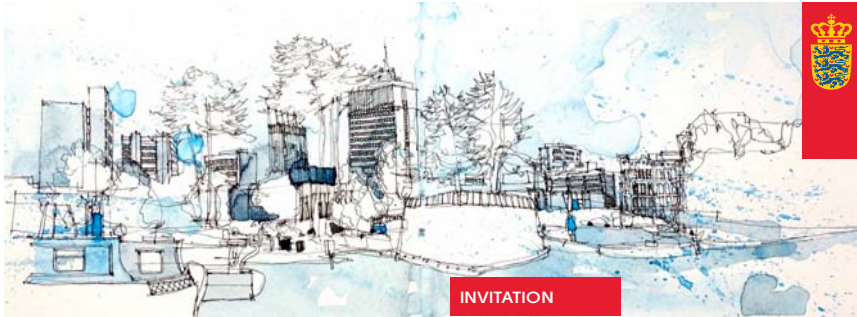

THE LIVEABLE CITY
A DANISH-BRITISH DIALOGUE IN MANCHESTER,
EXHIBITION AND SEMINARS 20—27 NOVEMBER

INVITATION

SEMINAR — MENDING MODERNIST MISTAKES
TUESDAY 25 NOVEMBER 2014

THE REGENERATION OF MODERN CITYSCAPES
Chair: Richard Brook, Senior Lecturer, MSA, Manchester
Modernist Society
Rune Veile, Architect and Partner, BCVA
Gavin Elliott, Director, Architecture, Chairman
BDP Manchester
Claus Gade, Architect and Partner, NOVA5

The influence of Modernism is still strong in contemporary
architecture, but for all its virtues, Modernism also has its
flaws. Many of the idealistic projects from the sixties and
onwards have proved to be inadequate in terms of
liveability. How can we approach existing buildings and
housing projects to make them - and the surrounding
areas - more people-friendly?

9.30am   REGISTRATION AND REFRESHMENTS
10.00am — 12.30pm SEMINAR

FREE ADMISSION
Sign up

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Manchester Metropolitan University

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OPEN 20—27 NOVEMBER 2014
Manchester School of Art — Benzie Building

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THE LIVEABLE CITY
A DANISH-BRITISH DIALOGUE IN MANCHESTER,
EXHIBITION AND SEMINARS 20—27 NOVEMBER

INVITATION

SEMINAR — OLD BUILDINGS, NEW FORMS
THURSDAY 27 NOVEMBER 2014

CONTEMPORARY USE OF HISTORIC STRUCTURES
Chair: **Sally Stone,** Principal Lecturer, MSA
Teva Hesse, Head of London Branch, C.F. Møller
Phil Griffin, Freelance writer and curator
Tomas Bur Andersen, COO, HansenGroup UK

Cost efficiency and sustainability are obvious advantages
when you 'recycle' existing buildings. Adapting and
expanding historic structures to contemporary use can
also help linking the past to the present and preserving
heritage by giving it new life. How do we approach the old
buildings with boldness as well as respect?

1.30pm   **REGISTRATION AND REFRESHMENTS**
2.00 — 4.30pm   **SEMINAR**

FREE ADMISSION
Sign up

VENUE
Manchester School of Art — Benzie Building
Manchester Metropolitan University

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Manchester School of Art — Benzie Building

See full programme for The Liveable City

IN PARTNERSHIP WITH:

INVITATION

SEMINAR — URBAN PLANNING
THURSDAY 20 NOVEMBER 2014

FROM VISION TO ACTION
Chair: **Neil Swanson,** Landscape Projects, MSA
Riccardo Marini, Director, Gehl Architects, UK Director
Simon Kjær Hansen, Director, Centre for Urban Planning,
Copenhagen Municipality
David Roberts, David Roberts, Deputy Chief Executive, igloo

It is not hard to imagine and agree on the ideal, liveable
city. The hard bit is how to make the change happen. The
seminar focuses on the political process of moving from
vision to action, bringing in experiences from the recent
year's transformation of the Danish capital as well as other
cities around the world.

9.30am   **REGISTRATION AND REFRESHMENTS**
10.00am — 12.30pm   **SEMINAR**

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A DANISH-BRITISH DIALOGUE IN MANCHESTER,
EXHIBITION AND SEMINARS 20—27 NOVEMBER

INVITATION

SEMINAR — WATER, WATER EVERYWHERE
WEDNESDAY 26 NOVEMBER 2014

MAKING ROOM FOR RAIN IN OUR CITIES
Chair: Eddy Fox, Senior Lecturer in Landscape
Architecture, MSA
Flemming Rafn Thomsen, Architect and Co-founder,
Tredje Natur
Paul Simkins, Architect, Urban Designer, Arup

Climate change means that we have to prepare our cities
for heavy downpours and flash flooding. Rainwater
solutions are not just about enigeering, they can also add
value to cityscapes. Sustainable, landscape-based
rainwater handling can bring nature back in our cities and
create new meeting places and spaces for activities.

1.30pm	**REGISTRATION AND REFRESHMENTS**
2.00 — 4.30pm	**SEMINAR**

FREE ADMISSION
Sign up

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IN PARTNERSHIP WITH:

msa Manchester School of Architecture

Manchester Metropolitan University

RIBA North West

Transport for Greater Manchester

ARUP

TREDJE NATUR

318

319

MA Landscape Architecture
Open Lectures 2014

Urban Recovery
Te Papa Ōtākaro/Avon River Precinct

Andrew Tindsley, Director of Urbanism, BDP +
Nicola and Matt Speight, Landscape Architects, BDP Manchester

After the dust settled from the catastrophic earthquake which hit Christchurch in February 2011, the rebuilding process was seen as an opportunity to rethink the urban fabric of the city. BDP and locally based consultants, Opus, led a design consortium in the Watermark project, the first stage in the regeneration of the central Avon River corridor, running through the heart of the city: Te Papa Otakaro. A BDP team from the UK and Holland relocated to Christchurch for 1 year to work on the project.

Andrew Tindsley, Landscape Architect and Director of Urbanism at BDP
Andrew, who led the Christchurch team, will deliver this presentation on the background, process and outcomes of the project, supported by two members of his team based in the Manchester office, in a talk which will also include some personal reflections on the landscape of New Zealand.

big infrastructure:
small island

Liz Birbeck, Senior Landscape Architect, Atkins

Visualisation of proposed HS2 line crossing a canal used by the BBC news

As one of the most significant investments in infrastructure in the UK in half a century, the HS2 project has stirred up a great deal of debate and controversy. Reactions to the proposals, at both ends of the spectrum, have reflected deep-seated attitudes towards the landscape, technology and 'progress'. Due to these political and social sensitivities, the early stages of the project's development have involved a very extensive process of impact assessment and community consultation which Atkins worked on as part of a complex consortium of consultancies.

Liz Birbeck is a senior chartered Landscape Architect with Atkins and one of the authors of a comprehensive Landscape and Visual Impact Assessment, covering a section of the planned HS2 route through the Midlands. Liz will be talking about her role and experience working on one of the UK's largest infrastructure projects. This will provide an insight into the complex processes by which we currently address the challenges of integrating major infrastructure into our landscapes .

COLLABORATIONS

An exploration of the work of two contrasting practices through case studies of both joint and separate projects

Tilman Latz, Latz + Partner, Munich
Johanna Gibbons, J&L Gibbons, London
Wednesday, February 18th, 12.00-14.30, Chatham 312

Artist's impression of the restored Crystal Palace Park, Latz + Partner

Tilman Latz is Principal of the German landscape practice, Latz + Partner, established by pre-eminent Landscape Architect, Peter Latz. The practice was responsible for the iconic Duisburg Nord park in the 1980's and has subsequently become a world leader in the profession, undertaking a huge variety of international projects covering post-industrial sites, public spaces, parks and large-scale urban transformations.

Johanna Gibbons is a founding partner of J&L Gibbons, a practice established in 1986 and now at the forefront of the UK landscape profession. She has led projects across a wide range of areas covering design, restoration and landscape planning, including the ground-breaking All London Green Grid and work in the Lea Valley associated with the London Olympics.

12.00-13.00: Tilman and Jo will talk initially about the experience of collaborating on the restoration plans for Crystal Palace Park, comparing and contrasting their distinct approaches and shared territory, through the narrative of this long running project.

13.15-14.30: They will then individually present an overview of their own practice's work, focussing on key projects and drawing out threads of philosophical and thematic continuity over time, highlighting some of the contrasting as well as comparable experiences of running a landscape practice over the last 3 decades in very different economic and cultural contexts.

• •

The Merz Barn Project

Ian Hunter
Director, Littoral Arts Trust

Wednesday, March 18th, 12.30 -14.00, Chatham 312

Ian Hunter is an artist and Director of the Littoral Arts Trust, Lancashire (www.littoral.org.uk). He worked in Australia and New Zealand as a curator and artist for a number of years, and was subsequently Arts Officer for the National Council for Civil Liberties in London. He founded Littoral Arts with Celia Larner in 1990 and completed a practice based phD at MMU in 1992.

The Trust is currently working to restore Kurt Schwitters' experimental art and architecture project, the Elterwater Merz Barn (1947). Kurt Schwitters was a German born artist, closely associated with the Dada movement of the early 20th century. During his lifetime, he worked across many different art disciplines, creative traditions and media, and maintained an extraordinary output of collages, paintings, poetry, performance, audio arts, theatre, photography, sculpture and installation projects. His influence on the development of Pop Art in the early 1960's and subsequent artistic movements is widely recognised. Denounced by the Nazi regime as a 'Degenerate Artist', he fled Germany, first to Norway and subsequently to England where he continued his work from his 'Merzbarn' in Cumbria.

The Littoral Trust aims to develop the site as a contemporary art gallery and research centre for artists, architects and students. Ian Hunter will be talking about Schwitters work and legacy and the project itself.

WATER
sensitive design

Dr. Nigel Dunnett, University of Sheffield
Wednesday, January 21, 17.30-19.00, Chatham 312

Of the many challenges which climate change poses for the planning and design of the built environment, that of water is arguably the most significant. Addressing the tendency towards ever more frequent extreme events, whether flooding or drought, is a central concern for the landscape profession. Strategies for accommodating water into the urban environment can no longer be seen as part of a separate issue of 'infrastructure', but as an integral part of the design of buildings, public spaces and streets.

Nigel Dunnett is Professor of Planting Design at the University of Sheffield. He has pioneered the use of innovative approaches to landscape planting in the UK, and in the multi-functional use of vegetation in the built environment. His activity is strongly interdisciplinary, focusing on the interface between ecology, design and horticulture in urban green space and built development, integrating ecology, horticulture and design within a creative and aesthetic framework. As co-author of the key books on sustainable drainage and urban rainwater management, this talk will focus primarily on this aspect of his work, although he is also renowned for his bold and dramatic naturalistic urban plantings; on 'modern meadows', biodiversity-enhancing design, and green roofs and roof gardens. Nigel acts widely as a consultant on planting design and ecological approaches to landscape design. He and his colleague Professor James Hitchmough were the principal planting design and horticulture consultants for the Queen Elizabeth Olympic Park.

Raingarden in Portland Oregon

Next Open Lecture: Tilman Latz & Johanna Gibbons on Crystal Palace Park, Wed 18th Feb 12-2pm

Open Lectures 2014 : 3
Friday May 16th, 3-5pm,
MMU Business School G.34 - Lecture Theatre 5

The Design of Landscape

Robert Camlin

Robert is widely regarded as one of the foremost Landscape Architects currently practicing in the UK and is also a gifted teacher. A graduate of the MMU landscape department, he regularly collaborates with the MSA, as well as with a wide range of national and international institutions. Robert is an elected member of the Prince's Foundation for the Built Environment and is frequently called upon to act as a jury member for international design competitions.

Cutting Room Square, Ancoats

Williamson Square, Liverpool

Town Square, West Bromwich

Reconfiguring
St Peter's Square
Presentation and Site Visit

Sonja Hlawna, Project Landscape Architect from Latz + Partner

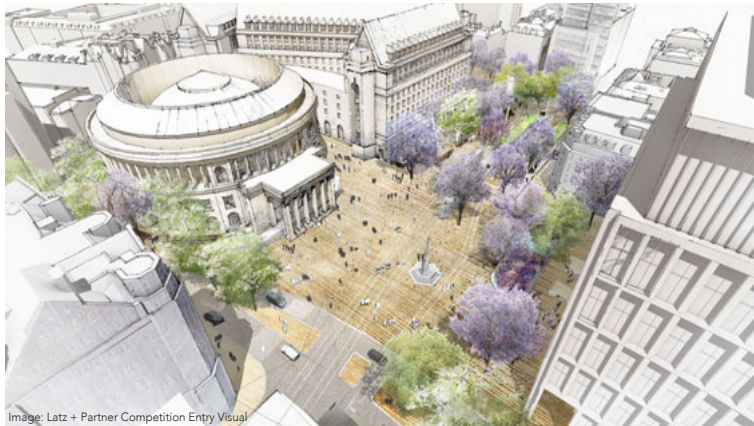Wednesday, October 15, 10.00, Sandra Burslem 2.10

Image: Latz + Partner Competition Entry Visual

The St. Peter's Square Project is the most significant transformation of a major public space in Manchester for a decade. The space forms a key arrival point to the city centre, the setting for the central library and town hall, and contains the city's main cenotaph. The redesign of the space was carried out in parallel with the modernisation of the library and town hall extension, the construction of a major new commercial building, and the creation of the second city crossing of the metrolink network. The competition for the design of the square was won by the German firm Latz + Partner in 2012 and the first phase is now nearing completion. Sonja Hlawna, an Associate at Latz + Partner and the project landscape architect, will be visiting MMU to give a talk on the background to the design of the square, the competition and the complex interdisciplinary process of design and delivery.

Later, she will accompany us on a site visit to the square and, alongside Laing O'Rourke, the contractors, will show us the nearly completed first phase of work and give a closer insight into the construction and logistical challenges of the space as a whole.

Working Landscapes

Ed Wall
University of Greenwich

An exploration of multifunctionality in the urban landscape
Wednesday, March 11th, 12.30 -14.00, Chatham 312

Ed Wall is the Academic Leader for Landscape at the University of Greenwich. He is also the founding director of Project Studio, a platform for design and research collaborations which extend from theoretical speculations to detailed built commissions, including: workshop with Architecture Foundation and Royal Academy in 2013, a winning entry for the Biennale of Landscape Urbanism 2010, the London Festival of Architecture 2008 and several international design competitions.

Ed studied landscape architecture at Manchester Metropolitan University and urban design, under Michael Sorkin, at City College New York (CUNY). He has written widely, including articles for Landscape and Topos. Ed co-authored, with Tim Waterman, Basics Landscape Architecture: Urban Design, published in 2009 by AVA Academic Publishing.

Ed has lectured in the UK and abroad. He has been a regular design studio critic at Columbia University GSAPP, City College New York, the Architecture Association and UCL The Bartlett and is currently a Visiting Professor at Politecnico di Milano.

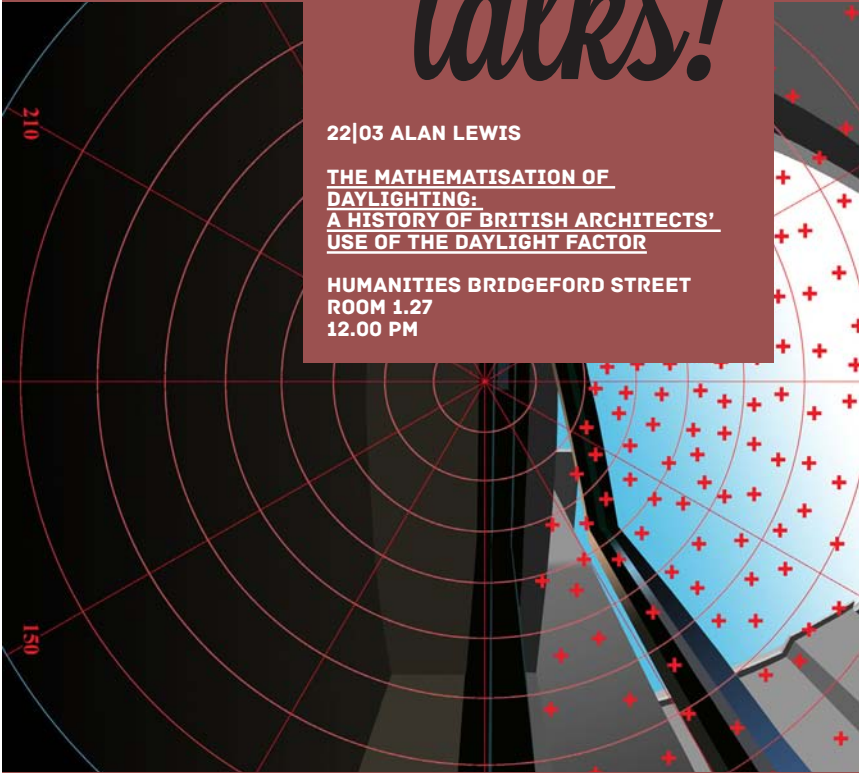Manchester Architecture Research Centre / 2015 Spring Research Seminars

MARC
talks!

22|03 ALAN LEWIS

**THE MATHEMATISATION OF DAYLIGHTING:
A HISTORY OF BRITISH ARCHITECTS'
USE OF THE DAYLIGHT FACTOR**

**HUMANITIES BRIDGEFORD STREET
ROOM 1.27
12.00 PM**

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Manchester Architecture Research Centre / 2015 Spring Research Seminars

MARC
talks!

11|03

**ALBENA YANEVA
WHAT IS COSMOPOLITICAL DESIGN?**

**ANGELA CONNELLY
RE-IMAGINING URBAN FUTURES:
ARTISTIC INTERRUPTIONS**

**HUMANITIES BRIDGEFORD STREET
ROOM 1.27
12.00 PM**
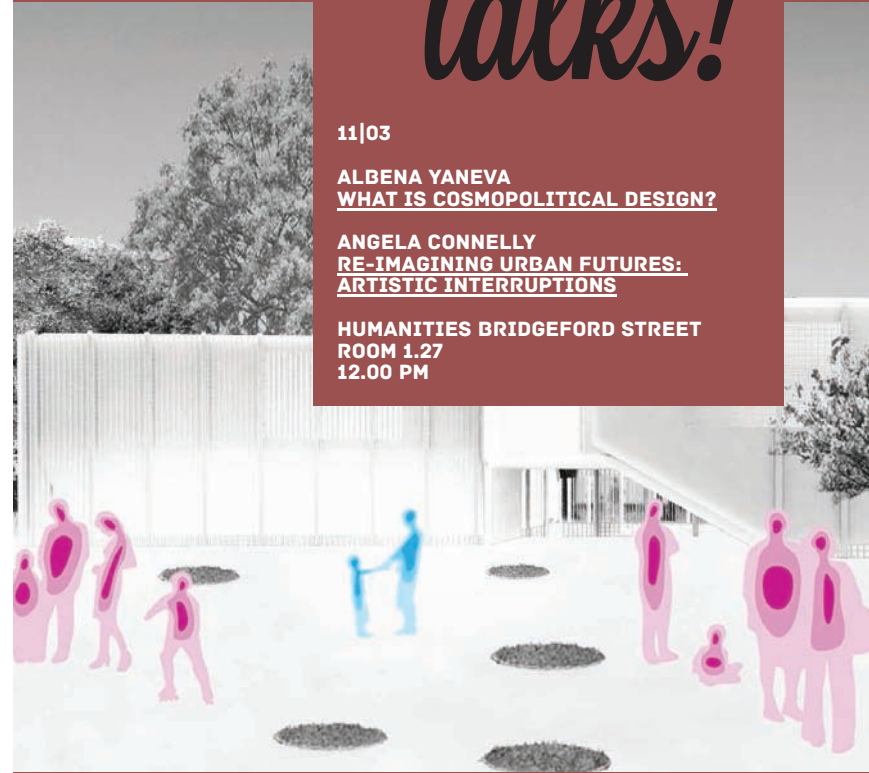
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M A R C · MANCHESTER 1824 The University of Manchester · Manchester Metropolitan University · msa Manchester School of Architecture

MARC
talks!

25|02 ISABELLE DOUCET

**SITUATED PRACTICES:
THE MUNDANE AND ICONIC IN
BRUSSELS' ARCHITECTURE**

**HUMANITIES BRIDGEFORD STREET
ROOM 1.27
12.00 PM**
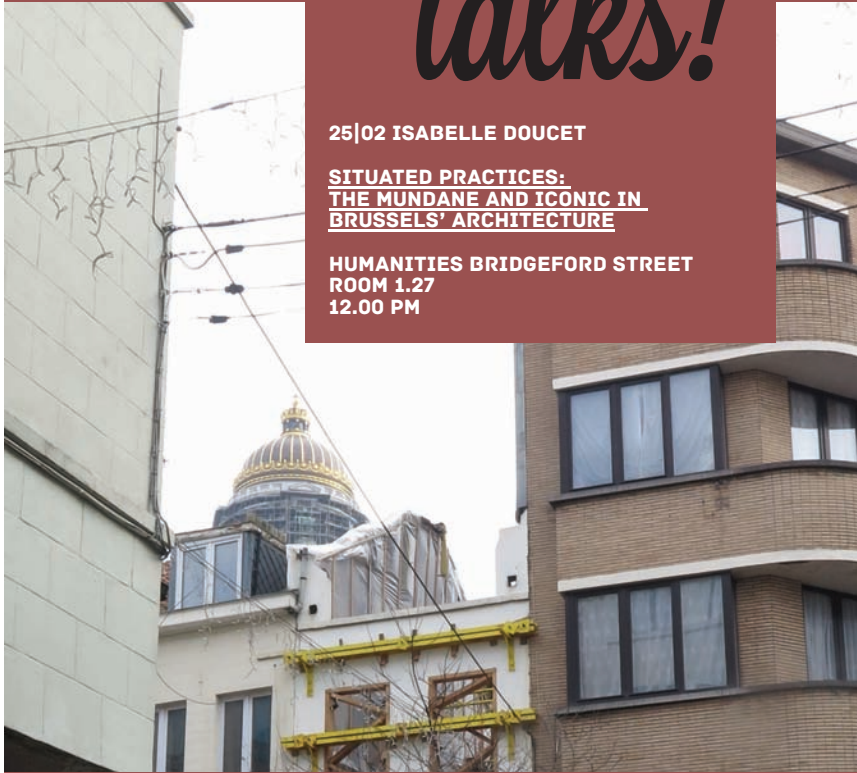
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msa Manchester School of Architecture

defining
the
urban

9 February 2015

10.00 - 13.00 University Place 5.206 / 13.30 - 18.00 Humanities Bridgeford Street G6

Speakers: Panagiotis Angeloudis / Allan Cochrane / Christopher Doll / Alexandros
Gasparatos / Deljana lossifova / Ulysses Sengupta / Hyun Shin / Arpana Verma

Supported by IDPM, cities@manchester, GURC & MARC

www.theurban.eventbrite.co.uk

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WHY SMART CITIES?
WHAT ABOUT HAPPY CITIES FOR PEOPLE

Gehl

Riccardo Marini
Jan Gehl Architects
5 - 7 pm / 10th
FOR PE
Geofrey Manton Lecture T

Ask yourself what is more important to you; being smart or being
As a species we have evolved and have shaped virtually all o
species we are very sociable and cities are at the core a simple reflection
As our evolution advances we have developed sophisticated approaches to all we do, this
of how we measure success. In my experience what drives the vast majority of us is the notion of pr
being efficient, this seems to be the basis of the value system we have created and use regardless
traits, political ideology or geographical location. The thoughts of Frederick Winslow Taylor seem to be the globa
Being Smart as in 'smart cities' ultimately is a function a Taylo
What I am interested in exploring and what we at Gehl Architects do is try to go beyond this and tap into
what really makes us 'tic' as a species and explore a value system which is based on 'real value'
and happiness to my mind is, or should be, one of the universal measures of success.

Design Inclusive future for ourselves
ARCHITECTURE and DESIGN Shift in a paradigm
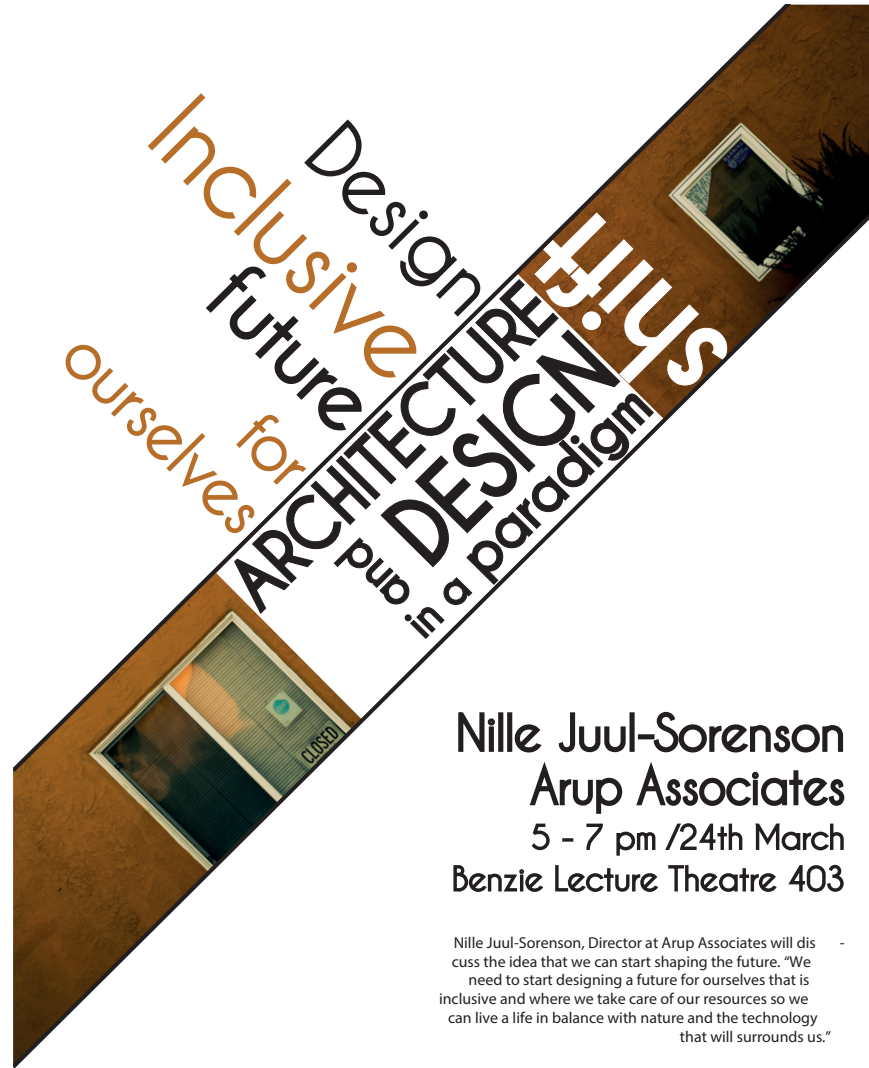
Nille Juul-Sorenson
Arup Associates
5 - 7 pm / 24th March
Benzie Lecture Theatre 403

CLOSED

Nille Juul-Sorenson, Director at Arup Associates will dis   -
cuss the idea that we can start shaping the future. "We
need to start designing a future for ourselves that is
inclusive and where we take care of our resources so we
can live a life in balance with nature and the technology
that will surrounds us."

SINISTER DIALOGUES

A COLLECTIVE SYMPOSIUM ON
THE NEGOTIATION OF SINISTER
USES THROUGH BUILDING REUSE

25.09.14
BENZIE LECTURE HALL {11-5}
MANCHESTER SCHOOL OF ART

DOCUMENT ? MONUMENT ? HG Merz {HG Merz Architekten Museumsgestalter}

FOLDS IN TIME Abigail Reynolds (Artist)

STRANGERS IN THE HOUSE Terry Meade {Brighton School of Architecture}

LANDMARKS OF MEMORY Sally Stone {Manchester School of Architecture}

TRACING RUINS IN PRODUCING LANDSCAPES Margherita Vanore {Iuav di Venezia}

ADDITION AND SUBTRACTION Sheila O'Donnell {O'Donnell + Tuomey Architects}

msa Manchester School of Architecture MANCHESTER SCHOOL OF ART Manchester Metropolitan University MANCHESTER 1824 The University of Manchester

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Left poster:

"Learning from
Digital Visualizations
of Urban Redevelopment Projects"
1PM: Benzie Building, Manchester School of Art, CH312

"Bodies and Everyday Practices
in Designed Urban Environments"
3PM: St Peters House, Chaplaincy

Gillian Rose
(Open University)
18 November

cities
@manchester

M A R C

Right poster:

Manifesto Architecture:
The Ghost of Mies

Tuesday, 9 December 2014
1.00–2.30pm
Benzie Building
Manchester School of Art
4th Floor, BZ403

Beatriz Colomina
(Princeton University)

M A R C

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MSA +

EXPERIENCE/EMPLOYMENT
STUDENTS/ALUMNI/FRIENDS/PRACTITIONERS/COLLABORATORS/
EMPLOYERS

ENGAGE !
Connect to MSAplus: https://uk.linkedin.com/in/msaplus

More info here: http://www.msaplus.org/

WHAT ?
 MSAplus is the official external facing network for the Manchester School of Architecture. It uses the Linked-in groups as a platform and has over 3000 members. The network is a vehicle for dialogue, bridging the gap between industry and academia. The focus is on connection - bringing together students, graduates and employers for placements, mentoring and employment. The network communicates and disseminates relevant information about careers advice, job opportunities, industry information and events.

FUTURE
98% of Manchester School of Architecture students go on to work and/or further study within 6 months of Graduation.

msa+