I. BRIEF

Continuing research conducted over the last four years, Diploma 2 sets out to invent a new social and aesthetic agenda for ecological architecture, using computation to calibrate environmentally responsive geometries that are able to choreograph both climatic and cultural flows within precarious urban conditions. The unit seeks alternative urban organisational structures to mediate between private interests and government bodies, as a way of transforming stagnant urban forms that are currently disconnected from the local culture and natural environment. In ‘Molecular Revolution in Brazil’, Félix Guattari and Suely Rolnik investigate how micro-political movements escape the ‘standardisation of desire’ imposed by capitalist and autocratic governments, so defining ‘completely original forms of expression’.

Micro-agencies offer an alternative power structure. From the grass-roots organizations that mobilised voters in the Obama campaign, to small-scale slum interventions like those by Alejandro Echeverri in Medelin, Columbia and the Mumbai Waterfronts Centre project in India, to urban planning charity organizations like the Forum for an Alternative Belfast; small agencies are closer to their beneficiaries and faster at responding than macro-organisations. We will collaborate with these micro-organisations, networking between the public and private sectors to create multiple-scaled ‘micro-infrastructures’ that mediate between formal and informal socio-economic, environmental and cultural forces.

Students choose their own site for intervention – a disused site in São Paulo’s centre or urban residue in any other city in the world – proposing their own programmatic, formal and aesthetic ‘protest’ against the dominant cultures controlling a specific urban phenomenon. We will propose new social programs to empower inhabitants, collaborating with local governments, NGOs, and urban activists, such as the Union of Inhabitants of the Paraisópolis shanty-town’s Literacy School, or the champion boxer Garrido’s informal Sports Academy under the viaducts in São Paulo. We will employ the extensive research collected at London School of Economics Urban Age São Paulo Conference. With São Paulo’s emerging as one of the world’s most important new economies, the destitute centre has been the focus of international attention: from Herzog and de Meuron’s proposed new Dance Hall, to Norman Foster’s redesign of the deprived Luz neighbourhood.

Informed by seminars on Guattari and Rolnik’s writing, and the films of Eliane Caffé, the unit will reject subjection to prevailing tendencies in favour of creating personal ‘formal revolutions’. For this choreography of aesthetic, programmatic and environmental negotiations, we will employ generative agency scripting and associative modelling. There will be workshops on Processing with Shajay Bhooshan; environmentally responsive parametric design with Adam Davis of Norman Foster’s Specialist Modelling Group; and environmental structure integration and extensive physical modelling with Lawrence Friesen of Generative Geometry. The unit will collaborate with the AA’s Sustainable Environmental Design programme to conduct testing of environmental structures, including shadow/lighting and ventilation analyses. These design processes will produce controlled emergent spatial effects for a performative architecture that mediates structural, environmental, and circulatory flows, bringing ‘sustainable design’ strategies new civic and cultural relevance, to reclaim and transform stagnant programs, economies and contexts.

BIO:
Anne Save de Beaurecueil and Franklin Lee (www.subdv.com) use computation to generate environmentally responsive geometries for architecture and urban design projects worldwide. They previously taught at the Pratt Institute in New York, and received Master’s Degrees from Columbia University. They have published, exhibited and lectured about their work worldwide, including the Beijing Biennale, the Rotterdam Biennale, the Athens Synthasoris Exhibition, the London Festival of Architecture, and the Festival of Electronic Language (FILE) in São Paulo. The work of Diploma Unit 2 has been featured in AD, ArchiCree, and the AA Agendas 7 Articulated Grounds: Mediating Environment and Culture publication.
II. SUMMARY YEAR SCHEDULE

TERM 1- Autumn Term (12 Weeks)
As described in detail in the full schedule starting on page 4 of this document, Autumn Term is an intense period of both research and computational design workshops. From readings, seminars and critical case study research about micro-agencies, as well as a Unit Trip site analysis, through a personal thesis, students will define new social programs to empower local inhabitants within a chosen precarious urban condition. Parallel to this is the development of environmentally responsive, ecological micro-geometries that structure new intricate ‘inhabited circulation systems’ to remediate the monolithic characteristics of problematic sites and to create the architecture for the proposed new social programs. This formal development will be explored through multiple physical models as well as computational workshops in Parametric Modelling, Processing Attraction Coding, Ecotect Shadow and Daylighting Analysis, Ventilation Analysis, Model Fabrication and Rendering. For 5th years, this work will form the basis for their Technical Studies Thesis.

1.0 MONOLITHIC, REDUNDANT AND RESIDUAL INFRASTRUCTURES:
   SITE SELECTION AND DEFINITION OF SITE PROBLEM

2.0 INITIAL PROTEST OF DOMINANT GEOMETRIC AND PROGRAMMATIC ORDER OF SITE
   INITIAL PROPOSAL OF ALTERNATIVE ‘MICRO’ PROGRAM AND GEOMETRIC
   TRANSFORMATIONS

3.0 INITIAL MOLECULAR TRANSFORMATION OF SOCIAL AND GEOMETRIC ORDERS
   3.1 PROGRAM CASE STUDIES - MICRO AGENCY PROJECTS:
      Molecular Social Transformations
   3.2 MOLECULAR GEOMETRIC TRANSFORMATIONS –
      CODED NEW INTRICACIES FOR SITE
   3.3 MOLECULAR TRANSFORMATIONS PHYSICAL MODELLING

4.0 SECOND CASE STUDY: ‘SYNCHRONISED’ URBAN GROUND INTERVENTIONS

5.0 CASE STUDY: ‘SYNCHRONISED’ STRUCTURES, MATERIALS + GLOBAL STRATEGIES

6.0 PARAMETRIC MODEL ITERATION – ‘SYNCHRONISED’ GROUND AND STRUCTURE

7.0 UNIT TRIP SITE ANALYSIS
   7.1 ENVIRONMENTAL TESTING
   7.2 CULTURAL-PROGRAMMATIC INFLUENCES
   7.3 CIRCULATORY

8.0 PROGRAM DEFINITION-ENVIRONMENTAL CRITERIA

9.0 ENVIRONMENTAL MEDIATION CASE STUDY-ECOLOGICAL DESIGN

10.0 ENVIRONMENTAL ‘AGENTS’ DRIVING PARAMETRIC ITERATIONS
   10.1 ENVIRONMENTALLY-DRIVEN PARAMETRIC GROUND ITERATIONS
   10.2 ENVIRONMENTALLY-DRIVEN PARAMETRIC STRUCTURAL ITERATIONS

11.0 ASSEMBLAGE STRATEGIES - NEW SYNCHRONIZATIONS - ENVIRONMENTALLY
     MEDIATED STRUCTURED GROUND ITERATIONS

12.0 ‘SMALL-SCALE’ PHYSICAL MODEL OF 11.0 ASSEMBLED STRATEGIES

13.0 PROGRAMMATIC ADAPTATION OF 11.0 ASSEMBLAGE STRATEGY
     ACCORDING TO 8.0 PROGRAM DEFINITION
TERM 2 - Spring Term 2010 (10 Weeks)
As described in detail in the full schedule starting on page 12 of this document, Spring Term involves developing sophisticated levels of programmatic and technical details. The first term’s structured-ground architectural organisations will be adapted according to specific site and program criteria. These will then be tested for environmental performance, and further articulated with intricate environmental components to calibrate precise mediations of sunlight, air and water movement, under the guidance of environmental engineers. Structural and material detail will be explored through a series of large scale models, and multiple reviews with structural engineers. Finally, measured plan and section drawings will be developed along with series of evocative interior and exterior perspectives, informed by the graphic design principles of a project program branding exercise. 5th Years will develop further performative models and technical details under the guidance of the Technical Studies Tutors.

14.0 SPECIFIC SITE DEFINITION

15.0 PROJECT PROGRAM BRANDING POSTER COMPETITION

16.0 INITIAL PROGRAM ORGANIZATION+PLAN DIAGRAMS

17.0 ENVIRONMENTAL TESTING OF NEW CONFIGURATION 16.0 TO ASSESS PERFORMANCES

18.0 REFINED SKIN COMPONENT DEFINITION

19.0 TESTING REFINED SKIN COMPONENTS ON GLOBAL 16.0 CONFIGURATION

20.0 "MEDIUM SCALE" PHYSICAL MODEL OF 16.0 GLOBAL STRUCTURED GROUND

21.0 A0 'COMPETITION' PANEL LAYOUTS OF PLAN, SECTIONS AND PERSPECTIVES

22.0 "LARGE SCALE" PHYSICAL MODEL OF COMPONENTS ON GLOBAL STRUCTURE

TERM 3 - Summer Term (10 Weeks)
As described in detail in the full schedule starting on page 16 of this document, Summer Term involves blowing up in resolution, and producing large scale fabrication physical prototypes, as well as highly detailed plans and sections. Exquisitely rendered perspective views and lighting testing will be used to demonstrate highly sculptural interior ambiences. The projects will both zoom-inwards to define material fabrication details, as well as zoom-outwards to show the larger urban implications in urban site models that position the project in the larger context, including developing phasing and possible funding strategies. Environmental and structural testing will be conducted at multiple scales, guided by our structural and environmental engineers. Students’ theses on micro-agency programs will be further elaborated along with the final portfolios and models, to prepare students for the series of preview and final table reviews that take place this term. 5th Years produce multiple fabrication details, and conduct detailed structural and environmental analyses, to demonstrate a rigorous degree of technical control in the production of their final Technical Studies Thesis. Everyone will produce a final ‘micro-agency’ manual book and large scale project panels for the end of the year exhibit.

23.0 "EXTRA LARGE SCALE" PHYSICAL MODEL-COMPONENT ON FULL GLOBAL

24.0 STRUCTURE-SKIN-COMPONENT: TESTING, ADJUSTMENT, DETAILS AND FABRICATION

25.0 URBAN CONTEXT SITE MODEL
III. TENTATIVE FULL YEAR SCHEDULE

TERM 1 (T1)- Autumn Term (12 Weeks)

T1- Week 1 28th September – 4th October

THURSDAY OCTOBER 1 – INTRODUCTION

1.0 MONOLITHIC, REDUNDANT AND RESIDUAL INFRASTRUCTURES:
SITE SELECTION AND DEFINITION OF SITE PROBLEM:
Select one’s own monolithic, deficient, residual infrastructural or building site, or select among the sites within the São Paulo’s derelict downtown, and identify the major problems to address- i.e. Environmental pollution, Social disintegration, Economic collapse, Effects of global warming, Impacts of natural disaster, Ecological degradation, Civil unrest. What were the dominant political, economic orders responsible for these problems, and how might the problems be reversed, how might a new ‘individualization’ be reclaimed? Are there existing micro-agencies or ones that can be proposed to address these issues? For example, specific problematic site conditions might include the lack of social interconnectivity, partial-vacancy, decaying buildings, poor environmental performance, and/or the basic lack of integration between architecture, nature and infrastructure.

2.0 INITIAL PROTEST DOMINANT GEOMETRIC AND PROGRAMMATIC ORDER OF SITE-
INITIAL PROPOSAL OF ALTERNATIVE ‘MICRO’ PROGRAM AND GEOMETRIC TRANSFORMATIONS
Identify the dominant GEOMETRY and SOCIAL ORDERS of the site and how they might be contributing to the problems of the site. Create your protest against the dominant, monolithic orders, define your proposed ‘molecular revolution’: the programmatic and geometric alternative, iterations, transformations using the base dominant geometry as a starting point.

FRIDAY OCTOBER 2 – CLASS REGISTRATION FOR:
- History and Theory Studies: Myths and Theories of Sustainable Architecture Simos Yannas
- Media Studies – Coding As Thought Process/Emergence - Shajay Bhooshan
- Technical Studies: Environmental Modeling & Simulation - Simos Yannas

SEMINAR: Micro-Agencies – GILSON RODRIGUES, President, Union of Inhabitants of Paraisópolis Favela (UMCP).

READINGS FOR TUESDAY OCTOBER 6TH:
-Guattari, Félix and Rolnik, Suely, Molecular Revolution in Brazil, (Los Angeles: Semiotext(e) Foreign Agents Series, 2008) PAGES (9-11- Preface, 35-42 “Subjectivity and History”, 258-261)

DELIVERABLES FOR TUESDAY OCTOBER 6TH:
1.1 SITE SELECTION DRAWING-DIAGRAMS - Map, Site Section, Photos, Agencies, etc.
1.2 PROTEST + PROPOSED PROGRAM TEXT: Define site, what were the dominant political, economic orders responsible for these problems, and how might they be reversed? Describe history, agencies at play in the area, proposed alternative program.
2.1 GEOMETRIC SITE ABSTRACTION (A2 (2-A3) sheets) - 3D MODELLING - Start to abstract, or ‘de-territorialize’ the site into the basic problematic geometry. (i.e. Piscinão-the singular bowl)

SITES SÃO PAULO (SEE DOCUMENTATION):
SITE A: UNDER THE VIADUCTS - MICRO AGENCY: GUARRIDO ACADEMY OF BOX
SITE B: OLD MILITARY CARTEL - MICRO AGENCY: GLICÉRIO NEW SPORTS COMMUNITY
SITE C: PARAISÓPOLIS FAVELA - MICRO AGENCY: UMCP
SITE D: MOINHO FLUMINESE (OLD MILL) - MICRO AGENCY: CHURCH? CRACOLANDIA?
SITE E: WATER RETENTION PISCINÃO – MICRO AGENCY: TO BE DEFINED
FURTHER - SPECIFIC SITE READINGS – SÃO PAULO:
pps. 8-13 (Intro), pps 17-25 (Main Issues- Geography, Density, Transport, Work), pps 39-46 (Inequality), pps. 52-54 (Diversity), pps. 60-64 (Isolation), pps. 70-73 (Exposure), pps. 101-104 (safety), pps. 173-185 (Ideals for Regeneration), 179 (Vertical Slum Regeneration), 201-205 (Bibliography)
Optional-pps. 79-96 (cities comparison), pps.133 (Transport),
http://www.habisp.inf.br/—(site with data on various precarious sites in city)

SITE A: UNDER THE VIADUCTS

SITE C: PARAISÓPOLIS FAVELA –(site with data on favela)
MONDAY OCTOBER 5TH: PROCESSING MEDIA STUDIES CLASS SHAJAY

TUESDAY OCTOBER 6TH:
- PIN UP:
  1.1 SITE SELECTION
  1.2 INITIAL PROTEST + PROPOSED PROGRAM
  2.1 GEOMETRIC SITE ABSTRACTION

- START:
  3.0 INITIAL MOLECULAR TRANSFORMATION OF SOCIAL AND GEOMETRIC ORDERS

3.1 PROGRAM CASE STUDIES - MICRO AGENCY PROJECTS:

Molecular Social Transformations
Of projects that worked with smaller, micro-agencies, negotiating between formal and informal institutions, proposing programs to help empower local inhabitants and produce social and formal transformations of monolithic and precarious urban conditions.

Examples:
- International Architecture Biennale Rotterdam – Squat City Exhibition Entries
  URBANINFONLINE: http://www.urbaninform.net/
- London School of Economics (LSE) Urban Age Award Winners - http://www.urban-age.net/
  (AWARDS)
  i.e. Mumbai Waterfronts Centre, Triratna Prerana Mandal toilets, Mumbai, Cortico da Rua Solon (vertical slum intervention - pg. 179 Cities and Social Equity, BioUrban (art interventions in favelas), Cooperativa Nova Esperanca recycling centre, etc)
  LSE Urban Age Conference Participants:
  - MEDELIN SANTO DOMINGO-METRO CABLE, BIBLIOTECA ESPANA, and PUBLIC SPACES
  Alejandro Echeverri Director of Special Projects, Medellin (new public programs in favela)
  - ELEMENTAL: HALF HOUSE
  Alejandro Aravena, Professor, Universidad Catholic and executive director, elemetental, Santiago
  (new model for social housing which provides half of house needed, leaving rest for self build)

3.2 GEOMETRIC TRANSFORMATION
Articulating the abstract base geometry through ‘molecular transformations’- to achieve an intricate, performative ‘wet grid’ of new attractions, repulsions, subdivisions, multiplications, extensions, iterations...etc. that help to solve the basic problems of site, both computationally and physically. Group workshop will be held on Tuesday October 6th to initialize parametric transformations.

- TUTORIAL PARAMETRIC MODELLING WORKSHOP
FRIDAY OCTOBER 9TH:

- PARAMETRIC MODELLING TUTORIALS (SS-EC)

SATURDAY OCTOBER 10TH:
- PROCESSING MEDIA STUDIES CLASS SHAJAY

SEMINAR (TBD): Molecular Revolutions and New geometric Intricacies

READINGS FOR TUESDAY OCTOBER 13TH:
- Save de Beaurecueil, Anne and Lee, Franklin. Liquid Urbanism (New York: Pratt Institute Graduate School of Architecture Publications, 2005) (pps. 12-14)

DELIVERABLES FOR TUESDAY OCTOBER 13TH:

3.1 MOLECULAR SOCIAL TRANSFORMATIONS PROGRAM CASES
Plans, sections, axos

3.2 MOLECULAR GEOMETRIC TRANSFORMATIONS
3d parametric modelling and or coded micro agency computations

3.3 MOLECULAR TRANSFORMATIONS (PHYSICAL MODEL)
Abstract Studies (rapid prototype+wood)

3.4 TRANSFORMATIONS-TEXT
REDEFINE 1.2 PROPOSED PROGRAM according to 3.1 research.
MONDAY OCTOBER 12TH: PROCESSING MEDIA STUDIES CLASS SHAJAY

- PIN UP:
  3.1 MOLECULAR SOCIAL TRANSFORMATIONS CASE STUDIES Plans, sections, axos
  3.2 MOLECULAR GEOMETRIC TRANSFORMATIONS 3d parametric modelling and or coded micro agency computations
  3.3 MOLECULAR TRANSFORMATIONS (PHYSICAL MODEL) Abstract Studies (rapid prototype+wood)
  3.4 MOLECULAR TRANSFORMATIONS- TEXT

REDEFINE 1.2 PROPOSED PROGRAM according to 3.1 research.

- START:

4.0 SECOND CASE STUDY: ‘SYNCHRONISED’ URBAN GROUND INTERVENTIONS:
Analyse intricate ground circulation/organizations and/or infrastructure systems, that promote
1. Multiple levels of accessibility, (multi-nodal, multi-branching, multiple-speeds) and
2. A choreographed spatial-sculpting that both could resolve the defined 1.0 SITE PROBLEM, and relate to your proposed 2.0 PROPOSED PROGRAM PROTEST: A. Identify either a ‘ground’ building/structure type, a general ground organization, or a general geometric ground strategy and B. a specific case study. I.E. A. General types (spirals, caves, ramps, berms, atriums, highway interchanges...etc) I.E. B. specific case study: SAMPLES- FIND YOUR OWN AS WELL- Diller and Scofidio (MIS) Museum of Image and Sound (Rio de Janeiro), Jean Nouvel - La Philharmonie de Paris in La Villette, Ben Van Berkel Mercedes Benz Museum, Toyo Ito Island City Central Park Grin Grin, Snohetra Oslo Opera House, Centro Cultural de São Paulo, Paris Opera House Stair, Spanish Steps, Chambord Stairs, flowing Niemeyer ramps and ground systems, Gaudi atriums and balconies, Scharoum Auditorium, Miralles Plazas, Seattle Library, Zaha Hadid Cardiff Opera House, other Zaha Hadid ground projects, etc.

- TUTORIAL PARAMETRIC MODELLING WORKSHOP – ADAM DAVIS

FRIDAY OCTOBER 16TH:
  - INDIVIDUAL TUTORIALS
  - PARAMETRIC MODELLING TUTORIALS (SS-EC)
  - ECOTECT RADIENCE TUTORIAL (SS-EC)

SATURDAY OCTOBER 17TH: PROCESSING MEDIA STUDIES CLASS SHAJAY

SEMINAR: (TBD) Urban Transformations - Philip Rode, London School of Economics
Editor: Cities and Social Equity - Inequality, Territory and Urban Form

READINGS: FOR TUESDAY OCTOBER 20TH:

GROUND CASE STUDY SOURCES:

DELIVERABLES FOR TUESDAY OCTOBER 20TH:
4.1 GROUND CASE STUDIES - Portfolio sheets of diagram plans, sections, axos demonstrating different geometric parameters and variations (Citing dimensions and other numerical relations) of ground types relating to site problem. Draw Vectors tracing all the different flows of movement.
4.2 GROUND CASE STUDIES – TEXT word document describing ground case study research
MONDAY OCTOBER 19th: PROCESSING MEDIA STUDIES CLASS SHAJAY

TUESDAY OCTOBER 20th:

- PIN UP:

4.1 GROUND CASE STUDIES - Portfolio sheets of diagram plans, sections, axos demonstrating different geometric parameters and variations (Citing dimensions and other numerical relations) of ground types relating to site problem. Draw Vectors tracing all the different flows of movement.

- START:

5.0 CASE STUDY: ‘SYNCHRONISED’ STRUCTURES, MATERIALS + GLOBAL STRATEGIES

Analyze an ‘articulated’, intricate, and multiple-branching structural system, or overall ‘global’ form organization, that either addresses the defined 1.0 SITE PROBLEM, or that is of special interest to the student. Identify Material Interest-Manufacturer Contact. i.e. Branching structures, multiple-suspension, cantilevers, Neto’s form-found sculptures, multi-parabolic space, arches, catenaries, compressive rammed earth, retaining walls, Japanese civil engineering, dams, bridges, Japanese joinery, casting, bundled tubes, etc.

-TUTORIAL PARAMETRIC MODELLING WORKSHOP – ADAM DAVIS

FRIDAY OCTOBER 23rd:

- INDIVIDUAL TUTORIALS
- PARAMETRIC MODELLING TUTORIALS (SS-EC)
- ECOTECT RADIENCE TUTORIAL (SS)

SATURDAY OCTOBER 24th: PROCESSING MEDIA STUDIES CLASS SHAJAY

READINGS FOR TUESDAY OCTOBER 27TH:


INTRICATE STRUCTURE CASE STUDY SOURCES:

- Kaijima, Sawako and Michalatos, Panagiotis, “Simplexity Field: Interface between construction disciplines”
- Mark, Robert, Experiments in Gothic Architecture

DELIVERABLES FOR TUESDAY OCTOBER 27TH:

5.1 STRUCTURE CASE STUDY - Portfolio sheets of diagram plans, sections, axos demonstrating different geometric parameters and variations (Citing dimensions and other numerical relations). Draw Vectors tracing structural flows, distinguishing between TENSION AND COMPRESSION.

5.2 STRUCTURE CASE STUDY – TEXT word document describing structure case study.
T1- Week 5
26th – 1st November

MONDAY OCTOBER 26TH
PROCESSING MEDIA STUDIES CLASS SHAJAY

TUESDAY OCTOBER 27TH

- PIN UP:
  5.1 STRUCTURE CASE STUDY - Portfolio sheets of diagram plans, sections, axos demonstrating different geometric parameters and variations (Citing dimensions and other numerical relations). Draw Vectors tracing structural flows, distinguishing between TENSION AND COMPRESSION.
  5.2 STRUCTURE CASE STUDY – TEXT describing structure case study.

- START:
  6.0 PARAMETRIC MODEL ITERATIONS
  (Choreographing Variability and Responsiveness at Multiple Scales)

  6.1 PARAMETRIC SYNCHRONISED GROUND ITERATIONS
  of 3.2 Molecular Geometric Transformation, introducing GROUND strategies of 4.1 GROUND CASE STUDY

  6.2 PARAMETRIC SYNCHRONISED STRUCTURAL/MATERIAL ITERATIONS
  of 3.2 Molecular Geometric Transformation, introducing STRUCTURAL logics of 5.1 STRUCTURE CASE STUDY

- TUTORIAL PARAMETRIC MODELLING WORKSHOP – ADAM DAVIS
- TUTORIAL CFD WIND ANALYSIS (SS)

WEDNESDAY OCTOBER 28TH
ECOTECT SOLAR STUDIES TUTORIAL – SIMOS YANNAS

FRIDAY OCTOBER 31ST
DEPART – UNIT TRIP

READINGS: (IN PREPARATION FOR BRAZIL TRIP)
- Campos, Alexandre, Teixera, Carlos M. And Marquez, Renata: Collateral Spaces (Belo Horizonte: InstitutoCidadesCriativas/ICC, 2008)

DELIVERABLES FOR TUESDAY NOVEMBER 2ND:
6.0 Digital and portfolio formatted sheet of 3d parametric model variations, documenting set up system and iterations of:
  6.1 PARAMETRIC SYNCHRONISED GROUND ITERATIONS
  6.2 PARAMETRIC SYNCHRONISED STRUCTURAL/MATERIAL ITERATIONS

T1- Week 6
2nd – 8th November (OPEN WEEK-NO CLASSES)
TRIP TO BRAZIL- DAY SCHEDULE T.B.D. (OR WEEK FOR TRAVEL TO OTHER SITES)
SITE VISITS SÃO PAULO, MEETING WITH MICRO-AGENCIES, CITY PLANNING DEPARTMENT, PIN-UP AND WORKSHOP WITH PROFESSOR IGOR GUATELLI (Author, Condensores Urbanos) AND STUDENTS FROM MACKENZIE UNIVERSITY ARCHITECTURE SCHOOL, ON-SITE ENVIRONMENTAL TESTING, AND STUDY OF REFERENCE PROJECTS.
(OPTIONAL SIDE TRIPS TO RIO DE JANEIRO AND BRASILIA)

TUESDAY NOVEMBER 3RD
- PIN UP:
  6.0 Digital and portfolio formatted sheet of 3d parametric model variations, documenting set up system and iterations of:
  6.1 PARAMETRIC SYNCHRONISED GROUND ITERATIONS
  6.2 PARAMETRIC SYNCHRONISED STRUCTURAL/MATERIAL ITERATIONS

- START:
  7.0 SITE ANALYSIS
    7.1 ENVIRONMENTAL TESTING
    7.2 CULTURAL-PROGRAMMATIC INFLUENCES
    7.3 CIRCULATORY
DELIVERABLES FOR TUESDAY NOVEMBER 10TH:
7.0 SITE ANALYSIS Portfolio sheets of diagram plans, sections, axos
7.1 ENVIRONMENTAL TESTING Ecotect Shadow Analysis, Solar Radiation Analysis, C.F.D. Wind Analysis, Interior Daylighting Radiance Analysis, and any on-site testing of sound, light, humidity and temperature.
7.2 CULTURAL-PROGRAMMATIC INFLUENCES Identify one's own particular interest from the site, for example, research specific local environmental, material, cultural, programmatic, or circulatory conditions. These will be used to inform the 'Cultural -Component Development'.
7.3 CIRCULATORY Vector analysis of main programmatic land use, and different types of pedestrian, vehicular and public transportation flows and terminals.

T1- Week 7 9th – 15th November
MONDAY NOVEMBER 9TH: OPTIONAL PROCESSING MEDIA STUDIES CLASS SHAJAY
TUESDAY NOVEMBER 10TH:
- PIN UP:
  7.0 SITE ANALYSIS
  7.1 ENVIRONMENTAL TESTING
  7.2 CULTURAL-PROGRAMMATIC INFLUENCES
  7.3 CIRCULATORY
- START:
  8.0 PROGRAM DEFINITION
PROGRAMMATIC - ENVIRONMENTAL-CIRCULATORY RATING MATRIX:
9.0 ENVIRONMENTAL MEDIATION CASE STUDY
- TUTORIAL PARAMETRIC MODELLING WORKSHOP – ADAM DAVIS
WEDNESDAY NOVEMBER 11TH: ECOTECT DAYLIGHTING TUTORIAL – SIMOS YANNAS
FRIDAY NOVEMBER 13TH:
- INDIVIDUAL TUTORIALS
- PARAMETRIC MODELLING TUTORIALS (SS-EC)

SEMINAR: (TBD) Sustainable Environmental Design(SED) Professor: Joana Gonçalves

READINGS FOR TUESDAY NOVEMBER 17TH:
-See Environmental Sources on Reading List for more readings on Environmental Mediation

DELIVERABLES FOR TUESDAY NOVEMBER 17TH:
8.0 PROGRAM DEFINITION
Portfolio sheet of PROGRAMMATIC - ENVIRONMENTAL-CIRCULATORY RATING MATRIX:
Define specific environmental and accessibility performances needed for each type of program. (Consult Neuffert and other specific program case studies for areas and organisational data)
9.0 ENVIRONMENTAL MEDIATION CASE STUDY - Portfolio sheets of diagram plans, sections, axos, indicating the vector and angles of sun and wind forces. Choose an environmental mediation system that would help enable the proposed program conditions. i.e. Terraced gardens or green roofs for urban agriculture, shade systems for more small market canopies, etc.

T1- Week 8 16th – 22nd November
MONDAY NOVEMBER 16TH: PROCESSING MEDIA STUDIES CLASS SHAJAY
TUESDAY NOVEMBER 17TH:
- PIN UP:
  8.0 PROGRAM DEFINITION
  9.0 ENVIRONMENTAL MEDIATION CASE STUDY
- START:
  10.0 ENVIRONMENTAL ‘AGENTS’ DRIVING PARAMETRIC ITERATIONS
10.1 Environmentally-Driven Parametric Ground Iterations
10.2 Environmentally-Driven Parametric Structural Iterations

- Tutorial Parametric Modelling Workshop – Adam Davis
  Friday November 20th
  - Individual Tutorials
  - Parametric Modelling Tutorials (SS-EC)
  - Rendering and Physical Modelling Tutorials (SS)

Seminar: (TBD) Generative Geometry - Lawrence Friesen:
Parametric Structural and Environmental Mediation

Deliverables for Tuesday November 24th:
10.0 Environmental ‘Agents’ Driving Parametric Iterations
  10.1 Environmentally-Driven Parametric Ground Iterations
  10.2 Environmentally-Driven Parametric Structural Iterations

Portfolio sheets of catalogue-matrix of 3D iterations:
Using your 6.1 Parametric Synchronised Ground Iterations
and your 6.2 Parametric Synchronised Structural/Material Iterations,
start to orient these according to specific site conditions, sun, wind, drainage, etc.
Use scripted parametric solar and wind models within parametric software platform
to start to drive specific geometric environmental responses
of your GROUND AND STRUCTURAL model according to
solar and other environmental forces for specific days and hours.
Document a full catalogue of effects.

T1 - Week 9
23rd – 29th November

Monday November 23rd: Processing Media Studies Class Shajay
Tuesday November 24th:
  - Pin Up:
    10.0 Environmental ‘Agents’ Driving Parametric Iterations
    10.1 Environmentally-Driven Parametric Ground Iterations
    10.2 Environmentally-Driven Parametric Structural Iterations
  - Start:
    11.0 Assemblage Strategies - New Synchronizations
    - Tutorial Parametric Modelling Workshop – Adam Davis
      Friday November 27th
      - Individual Tutorials
      - Parametric Modelling Tutorials (SS-EC)
      - Rendering and Physical Modelling Tutorials (SS)

Deliverables for Tuesday December 1st:
Portfolio sheets of catalogue-matrix of 3D iterations: documenting set up system and numerical
input and output of the transformations.
11.0 Assemblage Strategies - New Synchronizations
Explore different assemblage strategies to merge together the parametric, environmentally driven
ground and structural models completed thus far, using and transforming site geometry.
Sample assemblage strategies might include: proliferation, superposition, blending, collage, or
weaving, and might be structured using the following part to whole relationships:
1. Whole:10.2_Environmental Structure+Part:10.1 Environmental Ground
2. Whole:10.1_Environmental Ground+Part:10.2 Environmental Structure
3. Whole:10.1_Environmental Ground+Whole:10.2 Environmental Structure

T1 - Week 10
30th November – 6th December

Tuesday December 1st:
  - Pin Up:
    11.0 Assemblage Strategies - New Synchronizations
  - Start:
    12.0 ‘Small-Scale’ Physical Model of 11.0 Assembled Strategies
DELIVERABLES FOR TUESDAY DECEMBER 8TH:
PROGRESS ON
12.0 ‘SMALL-SCALE’ PHYSICAL MODEL OF 11.0 ASSEMBLED STRATEGIES
(FINAL MODELS DUE DECEMBER 11TH)
Initiate fabrication preparation and build physical model based on one of the assemblage strategies of the environmentally conditioned structure-ground hybrid above.

-5th YEARS: Initial TS THESIS PREPARATION OUTLINE REVIEW

T1- Week 11
TUESDAY DECEMBER 8th:
-PIN UP:
PROGRESS ON
12.0 ‘SMALL-SCALE’ PHYSICAL MODEL OF 11.0 ASSEMBLED STRATEGIES
-START:
13.0 PROGRAMMATIC ADAPTATION OF 11.0 ASSEMBLAGE STRATEGY
ACCORDING TO 8.0 PROGRAM DEFINITION
END OF TERM1-FINAL REVIEW PORTFOLIO PREPARATIONS OF 1.0 – 13.0

FRIDAY DECEMBER 11TH:
REVIEW: Buro Happold Structural Engineer - John Noel (tbd)
OF 12.0 ‘SMALL-SCALE’ PHYSICAL MODEL OF 11.0 ASSEMBLED STRATEGIES

SEMINAR-WORKSHOP: GRAPHIC DESIGN SOCIAL PROJECT BRANDING

DELIVERABLES FOR TUESDAY DECEMBER 15TH:
13.0 PROGRAMMATIC ADAPTATION OF 11.0 ASSEMBLAGE STRATEGY
ACCORDING TO 8.0 PROGRAM DEFINITION
Use parametric controls to adapt and transform the 11.0 Environmentally driven global ground-structure hybrid to address program organisation issues identified in 8.0 Program Definition.
END OF TERM1-FINAL REVIEW PORTFOLIO PREPARATIONS OF 1.0 – 13.0
FULL WORD DOCUMENT OF THESIS, FULL PRINTED PORTFOLIO, SLIDE PRESENTATION

T1- Week 12
TUESDAY DECEMBER 15th:
- INDIVIDUAL TUTORIALS PREPARATION FOR FINAL REVIEW

FRIDAY DECEMBER 18th:
TERM 1 FINAL REVIEW of 1.0 - 13.0
FULL WORD DOCUMENT OF THESIS, FULL PRINTED PORTFOLIO, SLIDE PRESENTATION

DELIVERABLES FOR TUESDAY FRIDAY JANUARY 15TH:
14.0 SPECIFIC SITE DEFINITION
Print out full-scale existing city plan, site-plan, building scale plans and section(s) of site choice.
EXISTING SITE PHYSICAL MODEL
TERM 2 (T2) - Spring Term 2010 (10 Weeks) TENTATIVE OUTLINE FULL SCHEDULE

T2 - Week 1
11th – 17th January
HTS/TS Submission Hand-In Week

FRIDAY JANUARY 15th:
- PIN UP:
  14.0 SPECIFIC SITE DEFINITION
  Print out full-scale existing city plan, site-plan, building scale plans and section(s) of site choice.
  EXISTING SITE PHYSICAL MODEL
- START:
  15.0 PROJECT PROGRAM BRANDING POSTER COMPETITION – DUE JANUARY 22ND

SEMINAR (TBD) GRAPHIC DESIGN BRANDING STRATEGIES

T2 - Week 2
18th – 24th January

TUESDAY JANUARY 19th:
- INDIVIDUAL TUTORIALS
- TUTORIAL PARAMETRIC MODELLING (SS-EC)

FRIDAY JANUARY 22TH:
- PIN UP:
  15.0 PROJECT PROGRAM BRANDING POSTER COMPETITION JURY
  PRIZE- 100 POUNDS IN RAPID PROTOTYPE LAB
- START:
  16.0 INITIAL PROGRAM ORGANIZATION+PLAN DIAGRAMS
  ADAPTING/ADJUSTING 13.0 SYNCHRONIZED GROUND-STRUCTURE-PROGRAM STRATEGY TO SPECIFIC SITE CONSTRAINTS AND DETAILED PROGRAM DEFINITIONS

T2 - Week 3
25th – 31st January

TUESDAY JANUARY 26TH:
- INDIVIDUAL TUTORIALS
- TUTORIAL PARAMETRIC MODELLING WORKSHOP (SS-EC)
- MATERIAL FABRICATION PHYSICAL MODELS

FRIDAY JANUARY 29TH:
- PIN UP:
  16.0 INITIAL PROGRAM ORGANIZATION PLAN DIAGRAMS
  ADAPTING/ADJUSTING SYNCHRONIZED 13.0 GROUND-STRUCTURE-PROGRAM STRATEGY TO SPECIFIC SITE CONSTRAINTS AND DETAILED PROGRAM DEFINITIONS
- START:
  17.0 ENVIRONMENTAL TESTING OF NEW CONFIGURATION 16.0 TO ASSESS PERFORMANCES
  17.1 CONCLUSIONS, ADJUSTMENTS AND ITERATIONS

5TH YEAR FULL T.S. THESIS OUTLINE DUE

READINGS FOR FEBRUARY 2ND:
- Save de Beaurecueil, Anne and Lee, Franklin. “Environmental Ornamentation” in Environmental Tectonics: Forming Climatic Change AA Agendas 6
T2 - Week 4

1st – 7th February

TUESDAY FEBRUARY 2ND:
- INDIVIDUAL TUTORIALS
- TUTORIAL PARAMETRIC MODELLING (SS-EC)
- MATERIAL FABRICATION PHYSICAL MODELS

SEMINAR: ENVIRONMENTAL ORNAMENTATION
Ornamental Mediations between the Smooth and the Articulated + ‘Cultural Components

FRIDAY FEBRUARY 5TH:
- PIN UP:
  17.0 ENVIRONMENTAL TESTING OF NEW CONFIGURATION 16.0 TO ASSESS PERFORMANCES
  17.1 CONCLUSIONS, ADJUSTMENTS AND ITERATIONS
- START:
  18.0 REFINED SKIN COMPONENT DEFINITION:
  USING 7.2 CULTURAL MATERIAL RESEARCH + 15.0 BRANDING + SUBDIVISION OF NEW CONFIGURATION 16.0 TO DEFINE A SMALLER SCALE COMPONENT MEDIATION
  18.1 VARIATIONS FOR DIFFERENT ORIENTATIONS AND FUNCTIONS
  18.2 COMPONENT ZONING STRATEGY ON GLOBAL
  18.3 COMPONENT PROLIFERATION ON GLOBAL

T2 - Week 5

8th – 14th February

TUESDAY FEBRUARY 9TH:
- INDIVIDUAL TUTORIALS
- TUTORIAL PARAMETRIC MODELLING (SS-EC)
- MATERIAL FABRICATION PHYSICAL MODELS
- 5TH YEAR TS GROUP REVIEW WITH TS TUTORS

FRIDAY FEBRUARY 12TH:
- PIN UP:
  18.1 VARIATIONS FOR DIFFERENT ORIENTATIONS AND FUNCTIONS
  18.2 COMPONENT ZONING STRATEGY ON GLOBAL
  18.3 COMPONENT PROLIFERATION ON GLOBAL
- START:
  19.0 TESTING REFINED SKIN COMPONENTS ON GLOBAL 16.0 CONFIGURATION
  19.1 CONCLUSIONS, ADJUSTMENTS (GLOBAL AND COMPONENT) AND ITERATIONS

T2 - Week 6

15th – 21st February (OPEN JURY)

TUESDAY FEBRUARY 16TH:
- INDIVIDUAL TUTORIALS
- TUTORIAL PARAMETRIC MODELLING (SS-EC)
- MATERIAL FABRICATION PHYSICAL MODELS

FRIDAY FEBRUARY 19TH:
- PIN UP REVIEW:
  WITH GENERATIVE GEOMETRY LAWRENCE FREISEN AND SED JOANA GONÇALES
  19.0 TESTING REFINED SKIN COMPONENTS ON GLOBAL 16.0 CONFIGURATION
  19.1 CONCLUSIONS, ADJUSTMENTS (GLOBAL AND COMPONENT) AND ITERATIONS
- START:
  20.0 "MEDIUM SCALE" PHYSICAL MODEL OF 16.0 GLOBAL STRUCTURED GROUND
Initiate preparation of physical model of environmentally calibrated 16.0 structure-ground assemblage, (that has been re-configured for specific site and program constraints).
T2 - Week 7  
22nd – 28th February

TUESDAY FEBRUARY 23RD:
- INDIVIDUAL TUTORIALS
- MEASURED DRAWING-DRAFTING WORKSHOP (SS-EC)
- 5TH YEAR TS GROUP REVIEW WITH TS TUTORS

FRIDAY FEBRUARY 26TH
REVIEW PROGRESS
20.0 "MEDIUM SCALE" PHYSICAL MODEL OF 16.0 GLOBAL STRUCTURED GROUND

- START:
  21.0 A1 'COMPETITION' PANEL LAYOUTS OF PLAN, SECTIONS AND PERSPECTIVES
  21.0 FULL SCALE REFINED PLAN DEFINITION
  21.1 FULL SCALE DETAILED SECTION DEFINITION
  21.2 FULL SCALE RENDERED PERSPECTIVES

T2 - Week 8  
1st – 7th March

TUESDAY MARCH 2ND:
- INDIVIDUAL TUTORIALS
- MEASURED DRAWING-DRAFTING WORKSHOP

FRIDAY MARCH 5TH:
- REVIEW: Buro Happold Structural Engineer - John Noel (tbd)
20.0 "MEDIUM SCALE" PHYSICAL MODEL OF 16.0 GLOBAL STRUCTURED GROUND

- START:
  22.0 "LARGE SCALE" PHYSICAL MODEL OF COMPONENTS ON GLOBAL STRUCTURE

T2 - Week 9  
8th – 14th March

TUESDAY MARCH 9TH:
- INDIVIDUAL TUTORIALS
- 5TH YEAR TS GROUP REVIEW WITH TS TUTORS

FRIDAY MARCH 12TH:
- PIN UP:
  21.0 A1 'COMPETITION' PANEL LAYOUTS OF PLAN, SECTIONS AND PERSPECTIVES
  21.0 FULL SCALE REFINED PLAN DEFINITION
  21.1 FULL SCALE DETAILED SECTION DEFINITION
  21.2 FULL SCALE RENDERED PERSPECTIVES

REVIEW PROGRESS
22.0 "LARGE SCALE" PHYSICAL MODEL OF COMPONENTS ON GLOBAL STRUCTURE
Production of physical model that shows both the structured ground as well as the detailed refined skin component system.

T2 - Week 10  
15th – 21st March

TUESDAY MARCH 16TH:
INDIVIDUAL TUTORIALS
END OF TERM 2 FINAL PREPARATION

FRIDAY MARCH 19TH:
END OF TERM 2 FINAL REVIEW OF 1.0-22.0
FULL WORD DOCUMENT OF THESIS, FULL PRINTED PORTFOLIO, SLIDE PRESENTATION ALL MODELS
OVER BREAK:

5TH YEARS:
23.0 "EXTRA LARGE SCALE" PHYSICAL FABRICATION MODEL
COMPONENT ON FULL GLOBAL STRUCTURED-GROUND STRATEGY
Production of model that shows a blow-up of the fabrication system of both the structured ground
as well as the detailed refined skin component system.

5TH YEARS TS THESIS BOOKLET FORMATTING

4TH YEARS: PREVIEW PREPARATION
FULL WORD DOCUMENT OF THESIS, FULL PRINTED PORTFOLIO, SLIDE PRESENTATION
ALL MODELS

TERM 3 (T3) - Summer Term (10 Weeks) TENTATIVE OUTLINE FULL SCHEDULE

T3 - Week 1 19th April – 25th April
HTS/TS Submission Hand-In Week

TUESDAY 20TH/WEDNESDAY 21ST APRIL:
4TH YEAR PREVIEWS
FULL WORD DOCUMENT OF THESIS, FULL PRINTED PORTFOLIO, SLIDE PRESENTATION
ALL MODELS

FRIDAY APRIL 23RD:
TS Tutors 5TH YEAR 'PRE' TS-PREVIEW

5TH YEARS: REVIEW - 23.0 "EXTRA LARGE SCALE" PHYSICAL FABRICATION MODEL
COMPONENT ON FULL GLOBAL STRUCTURED-GROUND STRATEGY
Production of model that shows a blow up of the fabrication system of both the structured ground
as well as the detailed refined skin component system.

5TH YEARS TS THESIS BOOKLET FORMATTING

T3 - Week 2 26th – 2nd May

TUESDAY APRIL 27TH:
-INDIVIDUAL TUTORIALS
FRIDAY APRIL 30TH:
5TH YEAR-PREVIEW PORTFOLIO PRESENTATION PREPARATION
FULL WORD DOCUMENT OF THESIS, FULL PRINTED PORTFOLIO, SLIDE PRESENTATION
ALL MODELS

UPDATE:
21.0 FULL SCALE REFINED PLAN AND SITE PLAN DEFINITION
21.1 FULL SCALE DETAILED SECTION DEFINITION
21.2 FULL SCALE 3D 'SYSTEM' AXOS AND RENDERED PERSPECTIVES
21.3 THESIS WORD DOCUMENT

4TH YEARS:
-START:
23.0 "EXTRA LARGE SCALE" PHYSICAL MODEL-COMPONENT ON FULL GLOBAL
COMPONENT ON FULL GLOBAL STRUCTURED-GROUND STRATEGY
Production of model that shows a blow up of the fabrication system of both the structured ground
as well as the detailed refined skin component system.

5TH YEARS:
SECOND REVIEW- of 23.0 "EXTRA LARGE SCALE" MODEL
T3 - Week 3
3rd – 7th May

TUESDAY 4th/WEDNESDAY 5th MAY:
DIPLOMA PREVIEWS FOR 5TH YEAR/AA DIPLOMA/PART 2
FULL WORD DOCUMENT OF THESIS, FULL PRINTED PORTFOLIO, SLIDE PRESENTATION
ALL MODELS

-START:
5TH YEARS:
- TS BOOK PREVIEW PREPARATION
  24.1 STRUCTURE-SKIN-COMPONENT TESTING AND ADJUSTMENT
  24.2 STRUCTURE-SKIN-COMPONENT: DETAILS AND FABRICATION

REVIEW PROGRESS
4TH YEARS:
 23.0 "EXTRA LARGE SCALE" PHYSICAL MODEL-COMPONENT ON FULL GLOBAL

T3 - Week 4
10th – 14th May

5TH YEAR TS THESIS INTERIM JURY
REVIEW PROGRESS
5TH YEARS- TS BOOK PREVIEW PREPARATION
  24.1 STRUCTURE-SKIN-COMPONENT TESTING AND ADJUSTMENT
  24.2 STRUCTURE-SKIN-COMPONENT: DETAILS AND FABRICATION

REVIEW PROGRESS
4TH YEARS:
  23.0 "EXTRA LARGE SCALE" PHYSICAL MODEL-COMPONENT ON FULL GLOBAL
-START:
  24.1 STRUCTURE-SKIN-COMPONENT TESTING AND ADJUSTMENT
  24.2 STRUCTURE-SKIN-COMPONENT: DETAILS AND FABRICATION

T3 - Week 5
17th – 21st May

-PIN UP:
5TH YEARS
- TS BOOK PREPARATION
  24.1 SKIN-COMPONENT TESTING AND ADJUSTMENT
  24.2 SKIN-COMPONENT: DETAILS AND FABRICATION

4TH AND 5TH YEARS:
UPDATE:
  21.0 FULL SCALE Refined PLAN and SITE PLAN DEFINITION
  21.1 FULL SCALE DETAILED SECTION DEFINITION
  21.2 FULL SCALE 3D 'SYSTEM' AXOS AND RENDERED PERSPECTIVES

T3 - Week 6
24th – 28th May

5TH YEAR TS THESIS FINAL JURY
-PIN UP:
4TH YEARS:
  24.1 SKIN-COMPONENT TESTING AND ADJUSTMENT
  24.2 SKIN-COMPONENT: DETAILS AND FABRICATION
-START:

**4TH + 5TH YEARS:**

25.1 URBAN CONTEXT SITE MODEL

**UPDATE:**

21.0 FULL SCALE REFINED PLAN AND SITE PLAN DEFINITION
21.1 FULL SCALE DETAILED SECTION DEFINITION
21.2 FULL SCALE 3D 'SYSTEM' AXOS AND RENDERED PERSPECTIVES
24.1 SKIN-COMPONENT TESTING AND ADJUSTMENT + INTERIOR VIEWS

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**T3 - Week 7**  
31st May – 4th June

**FINAL JURY**

FULL WORD DOCUMENT OF THESIS, FULL PRINTED PORTFOLIO, SLIDE PRESENTATION
ALL MODELS

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**4TH + 5TH YEARS:**

**REVIEW PROGRESS**

25.1 URBAN CONTEXT SITE MODEL

**UPDATE:**

21.0 FULL SCALE REFINED PLAN AND SITE PLAN DEFINITION
21.1 FULL SCALE DETAILED SECTION DEFINITION
21.2 FULL SCALE 3D 'SYSTEM' AXOS AND RENDERED PERSPECTIVES
24.1 SKIN-COMPONENT TESTING AND ADJUSTMENT + INTERIOR VIEWS

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**4TH YEARS**

PREPARE FOR FINAL END OF YEAR TABLE

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**T3 - Week 8**  
7th – 11th June

**TUESDAY 8TH/WEDNESDAY 9TH JUNE 4TH YEAR END OF YEAR REVIEWS**

FULL WORD DOCUMENT OF THESIS, FULL PRINTED PORTFOLIO, SLIDE PRESENTATION
ALL MODELS

**THURSDAY 10TH JUNE**  
TS5 HIGH PASS JURY

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**T3 - Week 9**  
14th – 18th June

**WEDNESDAY 16TH/THURSDAY 17TH JUNE**

DIPLOMA COMMITTEE

FULL WORD DOCUMENT OF THESIS, FULL PRINTED PORTFOLIO, SLIDE PRESENTATION

**FRIDAY 18TH JUNE**

DIPLOMA HONOURS PRESENTATIONS

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**T3 - Week 10**  
21st June – 25th June

**WEDNESDAY 23RD JUNE**

EXTERNAL EXAMINERS:

AA FINAL EXAMINATION (RIBA/ARB PART 2)

**25th June**

DIPLOMA AWARDS CEREMONY (3.00PM)
OPENING OF END OF YEAR EXHIBITION (6.30PM)
A. **URBAN and SOCIAL THEORY + URBAN DATA**


-Burdett, Ricky and Sudjic, Deyan The Endless City – London School of Economics The Urban Age Project (London: Phaidon Press, 2008)


-Cache, Bernard Earth Moves (Furnishing Territories)


-Davis, Michael Planet of Slums (Verso, 2007)


-Deleuze, Gille. 1000 Plateaus (London: Athlone Press 1988)


-Guattari, Félix and Rolnik, Suely, Molecular Revolution in Brazil. (Los Angeles: Semiotext(e) Foreign Agents Series, 2008)


-Sassen, Saskia A Sociology of Globalization (W.W. Norton and Company Ltd., 2007)


-Save de Beaurecueil, Anne and Lee, Franklin, Liquid Urbanism (New York: Pratt Institute Graduate School of Architecture Publications, 2005)

B. MEDIATED STRUCTURES


-Kaijima, Sawako and Michalatos, Panagiotis, "Simplicity Field: Interface between construction disciplines"


- Ruby, Ilka. Groundscapes: Rediscovery of the ground in contemporary architecture. (Barcelona: Gustavo Gili, 2006.)


C. COMPUTATION RESOURCES

GRASSHOPPER
http://tedngai.net/experiments.html
http://www.grasshopper3d.com/page/tutorials-1

PROCESSING
Books.
http://processing.org/learning/books/index.html
Web-links:
- PROCESSING website. http://processing.org
- Jared Tarbell http://complexification.net/
http://www.levitated.net/
D. BRAZILIAN CULTURAL AND ARCHITECTURAL PRECEDENTS


E. ENVIRONMENTAL DESIGN SOURCES: FROM THE AA MASTERS IN SUSTAINABLE ENVIRONMENTAL DESIGN PROGRAMME:

CASE STUDIES:

- Baird, G. *The Architectural Expression of Environmental Control Systems*

- Hawkes, D and W. Forster. *Architecture, Engineering and Environment*

- Herzog, T. *Solar Energy in Architecture and Planning*

- Slessor, Eco-Tech. *Sustainable Architecture and High Technology*

- Wigginton, M. *Intelligent Skins*

CLIMATOLOGY, URBAN CLIMATOLOGY, MICROCLIMATIC DESIGN:


- Littlefair, P. *Climate Considerations in Building and Urban Design*

- Santamouris, M. *Energy and Climate in the Urban Environment*

- Thomas, R. *Sustainable Urban Design*

ENVIRONMENTAL DESIGN PRINCIPLES


- Lewis, J. *Owen A Green Vitruvius: Principles and Practice of Sustainable Architectural Design*

- Thomas, R. *Environmental Design*

LIGHTING, DAYLIGHTING

- Baker, N. and K. Steemers *Daylight Design of Buildings*.

- Bell, J. and W. Burt *Designing Buildings for Daylight*

- Fontoynont, M. *Daylight Performance of Buildings*

- Littlefair, P. *Designing with Innovative Daylighting*
PASSIVE HATING AND COOLING
-Bowen, A. Passive Cooling

-Givoni, B. Passive and Low Energy Cooling of Buildings

-Santamouris, M. Passive and Low Energy Cooling of Buildings


VENTILATION
-Allard, F. Natural Ventilation in Buildings


F. FILMS- SITES

URBANINFORM:
http://www.urbaninform.net/
http://www.urban-age.net/
http://www.habisp.inf.br/
http://saopauloabandonada.com.br/

Garrido Box Viaduct Project
O Louco dos Viadutos (The madman of the viaducts)
Brazil 2009 Dir. Eliane Caffé
www.tvcultura.com.br/direcoes/o-louco-dos-viadutos
http://www.youtube.com/watch?v=6DvCK4ML9vk
http://www.youtube.com/watch?v=p7djDlsmTNY&feature=related
http://www.youtube.com/watch?v=ZQIyhAP1G_g&feature=related
http://www.youtube.com/watch?v=UWBpjVMgsw0&feature=related

www.outrosfilmes.com.br

Linha de Passe (2008)
diretores Walter Salles e Daniella Thomas
http://www.youtube.com/watch?v=htb3pX-6CVA

Cidade de Deus (2002)
http://www.imdb.com/video/screenplay/vi1937440793/
BARBICAN FILM: CINEMA OF BRAZIL: URBAN TALES
http://www.barbican.org.uk/film/series.asp?id=763

The Sign of the City (O Signo da Cidade) (15*) + Q&A
18:00 / Played out against the vast metropolis of São Paulo, this is the engaging story of four people brought together across the city’s airwaves by an astrology radio show.
4 Oct 09 / 18:00 / Cinema 3 Barbican

Jardim Ângela (12A*) + Q&A
18:30 / Enrolled onto an NGO community film-making course, a group of local youngsters from São Paulo’s troubled neighbourhood are tasked with making a film and ponder the dilemma over whether to portray a negative or positive image of the community.
5 October 2009 / 18:30 / Cinema 3 Barbican

Basic Sanitation (Saneamento Básico) (12A*) + Q&A with director Jorge Furtado
20:30 / Superbly acted, this is an upbeat and comic look at social activism by the celebrated Brazilian director Jorge who, his innovative filmmaking approach to the story of a town who need to build a new sewer.
6 October 2009 / 20:30 / Cinema 3 Barbican

Only When I Dance (PG*) + Q&A with director Beadie Finzi
19:30 / An inspiring documentary following two working class Brazilian teenagers from the favelas of Rio as they pursue their ambitions to be world class ballet dancers
This ‘touching, delicate’ (Jason Solomons, The Observer) film follows two working class Brazilian teenagers from the favelas of Rio as they pursue their ambitions to be world class ballet dancers.
8 October 2009 / 19:30 / Cinema 2 Barbican

Estamira
Brazil 2004 Dir. Marcos Prado
This powerful, poetic and award-winning documentary is a portrait of Estamira who has lived and worked for the last twenty years on Jardim Gramacha, Latin America’s largest landfill site in Rio de Janeiro.

Island of Flowers (Ilha das Flores)
Brazil 1989 Dir. Jorge Furtado
Jorge Furado’s acclaimed short is an ironic, yet utterly logical evaluation of the absurdity and inhumanity of social hierarchy in capitalist societies through the journey of a tomato that ends up as waste on a landfill site scoured by impoverished foragers.

Linha de Passe
Brazil 2008 Dir. Walter Salles e Daniella Thomas
The film tells the story of four poverty-stricken half brothers with the same mother, Cleuza but different fathers, who live in a favela neighborhood in São Paulo and have to fight to follow their dreams. Dario seeks the opportunity of a better life with his football skills; Dênis survives as a motorcycle courrier; Dinho works in a filling station and helps at the local church and Reginaldo, although gifted as a football player dreams of becoming a bus driver. Cleuza, pregnant with her fifth child, works as a cleaner for a woman in a middle class area of São Paulo.

You, Me, Garbage and Picasso
Brazil/UK 2009 Dir Karen HarleyJoao Jardim, Lucy Walker
This feature length documentary, filmed over nearly three years, follows the renowned artist Vik Muniz and a group of landfill scavengers on an emotional journey from the America’s biggest garbage dump in Rio de Janeiro to the most prestigious auction houses and museums in the world via the alchemic transformation of garbage into art. Vik’s initial objective was simply to ‘paint’ the people with garbage, however his journey with the scavengers takes him beyond the limits of what art can achieve.
The Architectural Association School of Architecture in London, commonly referred to as the AA, is the oldest independent school of architecture in the UK and one of the most prestigious and competitive in the world. Its wide-ranging programme of exhibitions, lectures, symposia and publications have given it a central position in global discussions and developments within contemporary architectural culture. Find and follow posts tagged architectural association on Tumblr.

Well, AA (Architectural Association) School of Architecture’s Project Review is always on at this time of the year. Unfortunately I can’t be in London this time to see their amazing works. Luckily, AA is, as usual, very good at showing off their stuff, and they’ve made this website up and running for 2011’s Project Review: http://pr2011.aaschool.ac.uk. I am going to get well-inspired!