



UNIVERSITY OF
CAMBRIDGE

Department of Architecture

***MAUD & MAUS:
Programme of Lecture and
Seminar Courses for 2016-
2017***

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A. Overview

This programme provides a list of the lectures and seminars for the MAUD and MAUS students. It specifies the course requirements in terms of choices and commitments.

Broadly speaking, there are two strands of lectures and seminars: one is social-political and the other technical studies in architecture and the city. The usual course format is a 1.5-2-hour slot per week where some lecturers offer a lecture whilst others offer a seminar. The students are required to choose one specific strand and attend all the lectures and seminars in that strand. The students should discuss their choices of seminars with their respective Principal Supervisors ("Supervisors" in text below). The choices could be further discussed with the Course Director if required. Because the seminars will require specific preparations the students are required to agree and register attendance with the lecturer leading each seminar series.

In addition to the lectures and seminars listed below, there may be a number of Undergraduate Tripos lectures that are directly relevant to the MAUD and MAUS students. The students are strongly advised to discuss with their respective Supervisors when designing their lecture timetables, taking due consideration of their essay and dissertation topics. It is important that the students find sufficient focus in their essays to contribute to the development of their research rather than have their time thinly spread among the lectures and seminars.

Michaelmas Term 2016

In this Term, there are two series of core courses. Students are required to attend one of them according to their chosen strand, although they could sit at the other course:

- (1) Studies in Socio-Politics of Architecture and the City (Prof Bullock and Dr Hernández)
- (2) Environmental Design Strategy and Managing Urban Change (Prof Short and Dr Jin).

In parallel to the core lectures above, all students will be attending a Research Methods Course which will cover training in generic research methods, GIS and other mapping, survey methods, ethnographical research and essay/dissertation writing skills. In addition, clinics for GIS and CAD skills will be organised by the Course Directors when such needs arise.

Lent Term 2017

In the Lent term, the students are required to attend Prof Sennett's workshops, and choose one strand of seminars as follows:

For the social-political strand, the core seminar courses are:

1. A Cinematic Approach to Everyday Life and Every Environment (Prof Penz)
2. Peripheral Urbanisms (Dr Hernández)
3. On the Nature of Conflict in Cities (Prof Pullan)

For the technical strand, the core seminar courses are:

- (1) Resilience, Modelling and Policy (Dr So and Dr Heo)
- (2) Perception, Health and Wellbeing in Architecture (Prof Steemers)

B. List of courses

Strand 1: Social-Political Studies in Architecture and the City

Michaelmas Term

Core Lectures: Studies in the Socio-Politics of Architecture and the City

Professor Nick Bullock and Dr Felipe Hernández

Weeks 1-8, Tuesday 2-4pm in the Classroom

Lent Term

Core Seminars:

- 1 A Cinematic Approach to Everyday Life and Every Environment [Lecture and Seminar]**
Professor Francois Penz
Weeks 1-4, Wednesday 2:30-3:30 lecture in the Classroom, 3:30-4:30 seminar in the Boardroom
- 2 Peripheral Urbanisms [Lecture and Seminar]**
Dr Felipe Hernández
Weeks 1-4, Monday 2:30-4:00 in the Boardroom
- 3 On the Nature of Conflict in Cities [Lecture and Seminar]**
Prof Wendy Pullan
Weeks 5-8, Monday 2:30-4:00 in the Boardroom
- 4 The Open City Workshops (Open to both social-political and technical strands)**
Professor Richard Sennett
Week 3-6, Friday 2-4pm in the Boardroom

Strand 2: Technical Studies in Architecture and the City

Michaelmas Term

Core Lecture Courses:

- 1. Environmental Design Strategy: Towards a Recovery of Natural Environments in Architecture**
Professor Alan Short
Weeks 1-4, Friday 11am-1pm in the Boardroom
- 2. Managing Urban Change: Theory and Practice**
Dr Ying Jin
Weeks 5-8, Friday 11am-1pm in the Boardroom

Lent Term

Core Seminar Courses:

- 1. Resilience, Modelling and Policy**
Dr Emily So and Dr Yeonsook Heo
Weeks 1-8, Monday 11am-1pm in the Boardroom
- 2. Perception, Health and Wellbeing in Architecture**
Prof Koen Steemers
Weeks 5-8, Friday 11am-1pm in the Boardroom

Michaelmas Term

Research Methods Course – MAUS Strands 1 and 2

This course will cover training in generic research methods, GIS and other mapping, survey methods, ethnographical research and essay/dissertation writing skills. Michaelmas Term 2016 Weeks 1-8, Lecture and Workshop on Wednesday 2-3pm in the Classroom.

In addition, clinics for GIS and CAD skills will be organised by the Course Directors when such needs arise.

This course is compulsory for students in both strands of the MPhil.

C. Course Outlines

Strand 1: Social-Political Studies in Architecture and the City

Michaelmas Term

Core Seminar Course:

1. Studies in the Socio-Politics of Architecture and the City

Professor Nick Bullock and Dr Felipe Hernández

Course Outline

This course offers an introduction to some of the major debates in urban studies today, exploring different perspectives on the socio-political and cultural role of architecture and urbanism. We explore the major socio-political and spatial transformations that shaped metropolitan cities in the twentieth century. With a focus on the period following World War II and following a broad chronological framework, this course traces the rise and fall of modernist planning and architecture, the welfare state and the advent of neo-liberal urbanism.

We will engage with current thinking, but equally draws on important twentieth-century texts that continue to influence discourses about the city today. The course introduces perspectives from a wide range of disciplines in the humanities and social sciences, including anthropology, geography and philosophy – always with a view to how they help us address the contemporary challenges of the City.

The purpose of the lectures is to reconnect text with context. By returning to the circumstances that gave rise to the text, and by reviewing the priorities and policies of the moment in the particular city, the course aims to provide both a historical understanding of the opportunities and challenges facing cities at the time and, by keying text to context, to promote a reading of the text enriched by an understanding of its then relevance. Modernisation touched the lives of all who lived in cities, leaving some as winners and rather more as losers. How Modernisation worked in practice varied not only from city to city, but over time as the assumptions about the role of government changed: the way that the European welfare states set about Modernisation was different from the ‘public/private’ model used by Moses in New York or the market driven approach that saw the construction of Docklands in London; in Paris, French dirigiste policy proceeded in a very different way from the more flexible policies of the Berlin *Senat*; in Latin America, twentieth-century modernisation brought about complex class struggles and a re-conceptualisation of democracy, these phenomena, along with the appearance of new forms of western intervention, caused cities to divert considerably from the way they had been conceived. After World War II, independence movements in Asia, South-East Asia and Africa led to new imaginations of the city, and to new understanding of urban societies. Thus this course exceeds the margins of a dominant western theory in order to study the development of cities worldwide.

The discussion-based seminars engage with close readings of a selection of relevant texts and occasionally films. Readings and written reading responses have to be done in advance of the lecture every week.

Seminar Titles:

1. The Modernisation of New York in the 1950s: Robert Moses versus Jane Jacobs (Nick Bullock)
2. Modernising Post-war Paris: the Gaullist Agenda and its Critics from Left and Right (Nick Bullock)
3. Modernising the Paris Region after WWII (Nick Bullock)
4. *The End of Urban Renewal? Berlin and the Search for New Ways to Transform the City* (Nick Bullock)
5. From the Laws of Indies to the 'modern city': Urban Form and Imagined Societies in Latin America (Felipe Hernández)
6. The End of Empire and the growth of the African City (Felipe Hernández)
7. Conceptualising Twentieth-Century Cities South of Cancer (Felipe Hernández)
8. Formalising the Informal: Recent Urban Interventions in Cities South of Cancer (Felipe Hernández)

Core Bibliography

Set readings marked by an asterix (*)

1. Modernising New York: Robert Moses versus Jane Jacobs 1945-70

Caro, R. *The Power Broker: Robert Moses and the Fall of New York*, Knopf, New York, 1074

Ballon, H. and Jackson, K.T. *Robert Moses and the Modern City, the Transformation of New York*, New York, Norton and Co, 2007, pp. 94-115; 122-33

*Jacobs, J. *The Life and Death of Great American Cities*, New York, 1961, Harmondsworth, Penguin Books, 1964, pp. 1-25

Schubert, D. (ed.) *Contemporary Perspectives on Jane Jacobs, reassessing the impact of an urban visionary*, Ashgate, Farnham, 2014

Schwartz, J. *The New York Approach: Robert Moses, urban liberals and redevelopment of the inner city*, Columbus, Ohio State University Press, 1993

*Wilson, J.Q. (ed.) *Urban Renewal: the Record and the Controversy*, Cambridge Mass, MIT Press, 1966

Zipp, S. *Manhattan Projects, the Rise and Fall of Urban Renewal in Cold War New York*, OUP, New York, 2010

2. Modernising Post-war Paris: the Gaullist Agenda and its Critics from Left and Right

*Chevalier, L. *The Assassination of Paris*, (trans. Jordan, D.), Chicago, University of Chicago Press, 1994

*Lefebvre, H. 'The Right to the City', in *Writings on Cities* (trans. and ed. Kofman, E. and Lebas, E.), Oxford, Blackwell, 1996

Sutcliffe, A. *The Autumn of Central Paris: the Defeat of Town Planning 1850-1970*, London, Edward Arnold, 1970

*Wakeman, R. *The Heroic City: Paris 1945-1958*, Chicago, University of Chicago Press, 2009

3. Modernising the Paris Region after WWII

Bastié, J. *La Croissance de la Banlieue Parisienne*, Paris, Presses Universitaires de France, 1964

Evenson, N. *Paris: a Century of Change, 1878-1978*, London, Yale University Press, 1979

Hazan, E. *Paris sous Tension*, Paris, La Fabrique, 2011
Noin, D. and White, P. *Paris*, Chichester, Wiley, 1997
*Wacquant, L. 'Designing Urban Seclusion in the Twenty First Century', in 'Taboo', *Perspecta, The Yale Architectural Journal*, No.43, 2010

Films

Matthieu Kassowitz, *La Haine* ()
Eric Rohmer, *L'ami de mon ami* ()
Jean-Luc Goddard, *Une ou deux choses que je sais d'elle* ()

4. The End of Urban Renewal? Berlin and the Search for New Ways to Transform the City

Bernt, M. *Rübergeklappt, die 'Behutsame Stadterneuerung' im Berlin der 90er Jahre*, Berlin, Schelzky and Jeep, 2003
Clelland, D. (ed.) 'Berlin as Model, IBA – the Internationale Bauausstellung, Berlin, September 1984', *Architectural Review*, September 1984, Vol.CLXXVI, No.1051
IBA Project Report, *Internationale Bauausstellung*, Berlin 1987, Berlin. Berliner Senat, 1987
Klemek, C. 'Jane Jacobs and the Transatlantic Collapse of Urban Renewal' in Schubert, D. (ed.) *Contemporary Perspectives on Jane Jacobs*, Farnham, Ashgate, 2014
Koopmans, R. *Democracy from Below, New Social Movements and the Political System in West Germany*, Boulder, Westview Press, 1997
Suhr, M. (ed.) *Urban Renewal, Berlin, Experience, Examples and Prospects*, Berlin, Berliner Senatsverwaltung für Bau- und Wohnungswesen, 1991

5. From the Laws of Indies to the 'modern city': Urban Form and Imagined Societies in Latin America

*Rama, A. (1996) *The Lettered City*. J.C. Chasteen (trans.). Durham: Duke University Press.
*Hernández, F., P. Kellett. 'Introduction: Reimagining the Informal in Latin America', in Hernández, F., P. Kellett and L. Allen (eds) (2012). *Rethinking the Informal City: Critical Perspectives from Latin America*. Paperback edition. Oxford – New York: Berghahn Books, 1-20.
Almandoz, A. (2014) *Modernization, Urbanization and development in Latin America, 1900-2000*. London: Routledge.

6. The End of Empire and the growth of the African City

Demissie, F (ed) (2012) *Colonial architecture and urbanism in Africa: intertwined and contested histories*. Farnham, Surrey, UK, England; Burlington, VT: Ashgate.
Chapters: Introduction, 6, 12 and 15.
*Freund, B (2007) *The African city: a history*. Cambridge-New York: Cambridge University Press. Chapters: 3 and 5.
Çelik, Z (1997) *Urban forms and colonial confrontations: Algiers under French Rule*. Berkeley, Calif.: University of California Press.
Beeckmans, L. and M. C, Matos (eds) (2010) *OASE 82: L'Afrique c'set Chic: Architecture and Planning in Africa 1950-1970*. Rotterdam: NAI Publicheirs.

7. Conceptualising Twentieth-Century Cities South of Cancer

*Edensor, T. and M. Jayne (eds) (2011) *Urban Theory Beyond the West: A World of Cities*. London: Routledge. Chapters: 2, 5, 19 and 20 (Introduction recommended)
*Pieterse, E and A. Simone (2013) *Rogue urbanism: emergent African cities*. Auckland Park, South Africa: Jacana. Chapters: Introduction, 1 and 2.
Duanfang, L. (2010) *Third World Modernism: Architecture, Development and Identity*. London: Routledge.

Mayers, G. A. (2011) *African Cities: Alternative Visions of Urban Theory and Practice*. London: ZED Books.

Simone, A. (2004) *For the City Yet to Come: Changing African Life in Four Cities*. Durham: Duke University Press.

8. Formalising the Informal: Recent Urban Interventions in Cities South of Cancer

*Pieterse, E (2008) *City futures: confronting the crisis of urban development*. London-New York : Zed Books; Capetown, South Africa : UCT Press, c2008. Chapters: Introduction, 2, 6, 7.

*Hernández, F. (2009) *Beyond Modernist Masters: Latin American Architecture Today*. Basel – Berlin – Boston: Birkhäuser. Chapter 1

Lerner, J. (2014) *Urban Acupuncture*. Washington: Island Press.

McGirk, J. (2014) *Radical Cities: Across Latin America in Search of a New Architecture*. London: Verso.

Lent Term

Lecture and Seminar courses:

1: A Cinematic Approach to Everyday Life and Every Environment – Lecture and Seminar

Professor François Penz

Course Outline

Cinema uniquely captures the subjective-social worlds and their meanings through its recordings of momentary human experiences. Films' ability to contextualize the transformative effects of space and cultures may not be immediately visible but is conveyed through daily human intercourse and social practices. This point was argued by Lefebvre who emphasized the efforts that 'cinema and even some specialists in the social sciences have made to get closer to the "lived", to eliminate the arbitrary transpositions of the everyday, to grasp "what is extraordinary within the ordinary", and "the significance of the insignificant" ' (Lefebvre 1961). Films can reveal places appropriated by everyday cultural and social practices – from films where 'nothing much happens' but the slow unraveling of the quotidian such as in Akerman's *Dielman* (1975), to most action films, all will contain useful nuggets of everyday life taking place in everyday spaces. A cinematic approach to everydayness allows us to overcome the 'thudding disappointment as a gap opens up between the image of architecture and the reality of its making and occupation' [Wigglesworth and Till, 1998] - cinema helps to close that gap by eliciting how spaces are used and practiced, getting closer to the 'lived'.

Lecture and Seminar Titles:

1. The case for everydayness
2. An architectonic of cinema
3. Cinema as a form of urban and environmental modelling
4. Towards a Cinematic Aided Design Approach to everydayness

Bibliography

Core Texts

Blanchot, Maurice *The Infinite Conversation* [1993 University of Minnesota Press – originally published in 1969]

de Certeau Michel *The Practice of Everyday Life* by [2011 - Originally published: 1984]

Lefebvre, Henri *Critique of Everyday Life* [The One-Volume Edition Paperback May 2014 - a new edition of his three volumes - Originally published: vol 1: 1947, vol 2: 1961, vol 3: 1981]

Perec, Georges *Species of spaces and other pieces* [London : Penguin, 2008 - Originally published: 1974]

Sheringham, Michael (2006) *Everyday life : theories and practices from surrealism to the Present* (OUP)

1. The Case for Everydayness

Berke, Deborah and Harris, Steven *Architecture of the Everyday* [New York : Princeton Architectural Press, 1997]

Deleuze, Gilles *Cinéma II: L'image-temps* (1985). Trans. *Cinema 2: The Time-Image* (1989).

Venturi, Robert, Scott Brown, Denise and Izenour, Steven *Learning from Las Vegas* [1972 Cambridge, Mass., MIT Press]

Wigglesworth, Sarah and Till, Jeremy (Eds) *Architectural Design on ' Everyday and Architecture'* (1998)

2. An Architectonic of Cinema

Bachelard, Gaston (1994) *Poetics of Space*

Friedberg, Anne (2009) *The Virtual Window: From Alberti to Microsoft* (MIT Press)

Koolhaas, Rem (2014) *Elements*

Koolhaas, Rem (2014) *Fundamentals*. 14 International Architecture Exhibition. La Biennale Di Venezia

Lefebvre, Henri (1992) *Rhythmanalysis -Space, Time and Everyday Life*

3. Cinema as a form of Urban and Environmental Modelling

Keiller, Patrick (2013) *The View from the Train: Cities and Other Landscapes*. London: Verso.

Negroponste, Nicolas (1972) *The Architecture Machine*. MIT Press•

Penz, François (2012) 'Towards an Urban Narrative Layers Approach to Decipher the Language of City Films' *CLCWeb: Comparative Literature and Culture* 14 (3).

4. Towards a Cinematic Aided Design Approach to Everydayness

McGrath, Brian and Gardner, Jean, *Cinematics: Architectural Drawing Today* (Wiley, 2007)

Tawa, Michael *Agencies of the Frame: Tectonic Strategies in Cinema and Architecture* (Cambridge Scholars Publishing 2010)

Tschumi, Bernard. *Architecture Concepts: Red is Not a Color:*

Architectural Concepts (Rizzoli International Publications, 2012)

2: Peripheral Urbanisms – [Seminar Only]

Dr Felipe Hernández

Course Outline

In architecture and cultural theory the notion of periphery references a marginal position away from the centre, which signifies the norm. As such, the notion of periphery opens up a theoretical area of contestation suitable to examine the relationship between dominant architectural and urban discourses/practices versus the processes through which cities are produced.

Thus, in this seminar, the idea of periphery refers to multiple urban questions and situations. For example, the seminar studies non-Western cities (the world's periphery), which are largely considered to have failed in relation to those in the centre (Europe and North America). Discussions will also address the question about urban peripheries more literally: via developments on the outskirts of cities –suburbia, gated communities, industrial towns, university towns, retail centres and FTZs, among other cases which maintain an awkward relationship with the urban core. Informal and popular urbanisms are also a topic of interest because urban informality often refers to both a geographical periphery as well as to peripheral spatial practices and discourses. Indeed, questions relating to the emergence of participatory practices –and activism– in architecture and urbanism will also be a subject of discussion.

In short, this seminar uses the notion of urban periphery as a vehicle to study spatial practices and processes, as well as methods of design and analysis, that that are considered to be marginal at a time when dominant discourses no longer carry the same weight.

Seminar Titles:

1. Other Urbanisms
2. History, Colonialism, Globalisation and Urban Form
3. Race, Ethnicity, Politics and Urban Form
4. Critical Spatial Practice: Design on the Urban Peripheries

Set Readings

1. Thinking Peripheries

Caldeira, T. (2015). Social Movements, Cultural Production, and Protests: São Paulo's Shifting Political Landscape. *Current Anthropology*, 56(S11), S126-S136.

McGEE, T. (2015) Deconstructing the Decentralized Urban Spaces of the Mega-Urban Regions in the Global South', in Hamel, P. and R. Keil (eds) *Suburban Governance: A Global View*. Ed.. U of Toronto, 2015. 325-36

ROY, A. (2011), 'Slumdog Cities: Rethinking Subaltern Urbanism', in *International Journal of Urban and Regional Research*, 35: 223–238.

Recommened: Roy, A, (2015) *Territories of Poverty: Rethinking North and South*. Atlanta: University of Georgia Press.

2. History, Colonialism, Globalisation and Urban Form

Carl Nightingale, *Segregation: A Global History of Divided Cities*, Chicago-London: Chicago University Press (2012), Chapter 1 (all Part 1), 2, 6, 12 and Epilogue
Recommended reading: Chapters 7, 8, 9 and 11

Hernandez, F. (2010) *Bhabha for Architects*. London: Routledge.

King, A. (2016) *Writing the Global City: Globalisation, Postcolonialism and the Urban*. London: Routledge.

3. Race, Ethnicity, Politics and Urban Form

Loïc Wacquant, *Urban Outcasts: A Comparative Sociology of Advanced Marginality*
Cambridge: Polity (2008) Chapters 0, 1, 8, 9 and Postscript, recommended Reading: Chapter 2, 3, 5 and 7

Caldeira, T. "Marginality Again?!" in *International Journal of Urban and Regional Research* vol. 33 no. 3 (2009): 848-853

4. Critical Spatial Practice: Design on the Urban Peripheries

Kaminer, T. and Robles-Duran (2011) *Urban Asymmetries: Studies and Projects on Neoliberal Urbanization*. Rotterdam: 010. Chapters: to be circulated

Bruins, G. and A. Graafland (2012) *African Perspectives – [South] Africa: Society, Space, Literature and Architecture* Rotterdam: 010. Chapters: to be circulated

General Bibliography

Almandoz, A. (2014) *Modernization, Urbanization and development in Latin America, 1900-2000*. London: Routledge.

Avermaete, T. (ed) (2006) *Another Modern: The Post-War Architecture and Urbanism of Candillis-Josic-Woods*. Rotterdam: NAI Publishers.

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Cohen, J.L. and M. Eleb (2002). *Casablanca: colonial myths and architectural ventures*. New York: Monacelli Press.

Coquery-Vidrovitch, C (2005) *The history of African cities south of the Sahara: from the origins to colonization [Histoire des villes d'Afrique noire]*. Translated by Mary Baker. Princeton, New Jersey: Markus Wiener Publishers, c2005.

De Boeck and M. F. Plissart (2004) *Kinshasa: tales of the invisible city* [as a sequel to the exhibition "Kinshasa, the imaginary city"]
Central Africa.

Demissie, F (ed) (2012) *Colonial architecture and urbanism in Africa: intertwined and contested histories*. Farnham, Surrey, UK, England; Burlington, VT: Ashgate.

Duanfang, L. (2010) *Third World Modernism: Architecture, Development and Identity*. London: Routledge.

Edensor, T. and M. Jayne (eds) (2011) *Urban Theory Beyond the West: A World of Cities*. London: Routledge.

Featherstone, D. (2008) *Resistance, Space and Political Identities: Mobilization for Global*

- Justice*. London and Cambridge (Mass.): Wiley Academy.
- Freund, B (2007) *The African city: a history*. Cambridge-New York: Cambridge University Press.
- Harvey, D (2012) *Rebel Cities: From the Right to the City to the Urban Revolution*. New York: verso.
- Hernández, F. (2009) *Beyond Modernist Masters: Latin American Architecture Today*. Basel – Berlin – Boston: Birkhäuser.
- Hernández, F., P. Kellett and L. Allen (eds) (2012). *Rethinking the Informal City: Critical Perspectives from Latin America*. Paperback edition. Oxford – New York: Berghahn Books.
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- McGirk, J. (2014) *Radical Cities: Across Latin America in Search of a New Architecture*. London: Verso.
- Murray, M. and M. A. Mayers (eds) (2011) *Cities in Contemporary Africa*. London: Palgrave Macmillan.
- Pieterse, E (2008) *City futures: confronting the crisis of urban development*. London-New York : Zed Books; Capetown, South Africa : UCT Press, c2008.
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- Simone, A. (2004) *For the City Yet to Come: Changing African Life in Four Cities*. Durham: Duke University Press.

3: On the Nature of Conflict in Cities – [Lecture and Seminar]

Prof Wendy Pullan

Course Outline

In many cities today conflict is regarded as being pervasive, manifested in various forms including: ethno-national, religious, racial, economic and class. Cities are rooted on the fault lines of civilisations, traditionally where diverse groups met and now continue to meet. Whilst this fundamental condition has caused strife it has also contributed to the richness of urban life, resulting in urban institutions for governance, trade, justice, and culture. Thus, we may ask, to what extent is conflict part of the urban condition, and what role does it play? This seminar will explore the question in history, philosophy, architecture and the urban fabric.

Seminar Titles:

1. The spatial politics of urban conflict
2. Modes of conflict
3. Agon in history and today
4. Urban agonists - the role of the city

Bibliography

Selected

- Amin, Ash, 2008. 'Collective culture and urban public space', *City*, 12.1, 5-24.
- Anderson, James and Liam O'Dowd, 1999. 'Borders, Border Regions and Territoriality: Contradictory Meanings, Changing Significance', *Regional Studies*, 33.7, 593-604.
- Arendt, Hannah, 1998. *The Human Condition*, 2nd ed., Chicago: University of Chicago Press, first pub 1958)
- Bollens, Scott, 2000. *On Narrow Ground. Urban Policy and Ethnic Conflict in Jerusalem and Belfast*, Albany: State University of New York Press.
- Brown, Wendy, 2011. *Walled States, Waning Sovereignty*, New York: Zone Books.
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http://www.urbanconflicts.arct.cam.ac.uk/publications/copy_of_briefing-papers
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- Coward, Martin, 2009. *Urbicide. The Politics of Urban Destruction*, London and New York: Routledge.
- Dubbini, Rachele, 2010. 'Agones on the Greek Agora between ritual and spectacle. Some examples from the Peloponnese', in *Body, Performance, Agency and Experience*, vol. 2, eds., Angelos Chaniotis, Leopold Silke, et al, Wiesbaden: Harrassowitz, 157-81.
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- Gadamer, Hans-Georg, 1992. 'What is Practice? The Conditions of Social Reason', in *Reason in the Age of Science*, tr., F. G Lawrence, Cambridge MA and London: MIT Press, 69-87.
- Graham, Stephen, ed., 2004. *Cities, War, and Terrorism. Towards an Urban Geopolitics*, Blackwell, Oxford.
- Hirst, Paul, 2005. *Space and Power. Politics, War and Architecture*, Cambridge and Malden, MA: Polity Press.
- Marcuse, Peter and Ronald van Kempen, eds., 2002. *Of States and Cities. The Partitioning of Urban Space*. Oxford: Oxford University Press.
- Massey, Doreen, 2011. *For Space*, Los Angeles, et al: Sage.
- Mouffe, Chantal, 2000. *The Democratic Paradox*, London Verso.
- Mouffe, Chantal, 2005. *On the Political*. London and New York: Routledge.
- Mouffe, Chantal and Markus Miessen, 2012. *The Space of Agonism*, Berlin: Sternberg Press.
- Nietzsche, Friedrich, 1994. 'Homer on Competition', in *On the Genealogy of Morality*, ed., K. Ansell-Pearson, tr., C. Diethel, Cambridge: Cambridge University Press, 187-94.
- Nightingale, Carl H, 2012. *Segregation. A Global History of Divided Cities*. Chicago and London: University of Chicago Press.
- O'Dowd, Liam, 2010. 'From a "borderless world" to a "world of borders": "bringing history back in"', *Environment and Planning D: Society and Space*, 28.6, 1031-50
- Pullan, Wendy, 2011. 'Frontier urbanism: The periphery at the centre of contested cities ', *The Journal of Architecture*, 16.1, 15-35.
- Pullan, Wendy, 2013. 'Conflict's Tools. Borders, boundaries and mobility in Jerusalem's spatial structures', *Mobilities* 8.1, 125-47.
- Wendy Pullan, 'Agon in urban conflict: some possibilities' in, *Phenomenologies of the City. Studies in the History and Philosophy of Architecture*, eds. Max Sternberg and Henriette Steiner (Aldershot: Ashgate, forthcoming 2015).
- Pullan, Wendy and Britt Baillie, eds., 2013. *Locating Urban Conflicts: Ethnicity, Nationalism, Everyday Life*, Basingstoke and New York: Palgrave Macmillan.

Sassen, Saskia, 2006. *Territory, Authority, Rights: From Medieval to Global Assemblages* Princeton, NJ and Oxford: Princeton University Press.

Sibley, David, 1988. 'The purification of space' *Environment and Planning D: Society and Space*, 6, 409-21.

Tully, James, 1999. 'The agonistic freedom of citizens', *Economy and Society*, 28/2.

Virilio, Paul, 2012. *Lost dimension*, tr. D. Moshenberg, Los Angeles: Semiotext(e).

Wenman, Mark, 2013. *Agonistic Democracy. Constituent Power in the Era of Globalisation*, Cambridge: Cambridge University Press.

Set Readings

1. The Spatial Politics of Urban Conflict

Pullan and Baillie, 2013, 'Introduction', in Pullan, Wendy and Britt Baillie, eds., 2013. *Locating Urban Conflicts: Ethnicity, Nationalism, Everyday Life* Wendy Brown, 2011. *Walled States, Waning Sovereignty* Chapter 1-2.

Hannah Arendt, 'The Public and the Private Realm', in *The Human Condition*, 22-78.

2. Modes of conflict: Territory, Space, Mobility, Frontiers

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3. Agon in History and Today

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Connolly, William E, 2002. *Identity/Difference. Democratic Notions of Political Paradox*, Minneapolis and London: University of Minnesota Press.

Alan Dundes and Alessandro Falassi, 1975. *Laterrainpiazza: An interpretation of the Palio of Siena*, Berkeley: University of California Press.

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http://www.academia.edu/1011012/Agones_on_the_Greek_Agora_between_Ritual_and_Spectacle_Some_Examples_from_the_Peloponnese

4. Urban Agonists – the Role of the City

Carl, Peter, no date. 'City, Horizons of Involvement, Praxis',
https://metranet.londonmet.ac.uk/fms/MRSite/acad/asd/pdf-uploads/Carl_CityHorizons.pdf

Wendy Pullan, 'Agon in urban conflict: some possibilities' in, *Phenomenologies of the City. Studies in the History and Philosophy of Architecture*, (forthcoming 2015; see Moodle site for a copy)

4: The Open City Workshops (Open to both social-political and technical strands)

Professor Richard Sennett

Course Outline

The seminar course will be run as a series of workshops. Prof Sennett will be distributing readings including drafts of the book he is currently working on.

Seminar Titles:

1. The Lewis Mumford -- Jane Jacobs debate about urban design, and its relevance to urban development today.
2. The Modernist dream of making a rational city, its contemporary appearance in "smart cities", and the limits of rational design.
3. Open systems design 1: porous and incomplete forms
4. Open systems design 2: rupture and accretion in urban growth.

Strand 2: Technical Studies in Architecture and the City

Michaelmas Term

Core Lecture Courses

1. Environmental Design Strategy: Towards a Recovery of Natural Environments in Architecture

Professor Alan Short

Outline

This course of lectures addresses a conundrum of profound and far-reaching importance in contemporary Architecture: *'Buildings urgently need to become more resilient to a changing climate whilst using very much less energy but post-war designers have made less and less resilient buildings more and more dependent on energy intensive artificial environments'*. The majority of recent buildings, however audacious their form, broadly conform to a standardized pattern: framed and highly glazed with substantial service voids lined in lightweight materials piping conditioned air and refrigerant. What are the implications of this formula in regions where the environment is predicted to warm? Can it be adapted to acquire greater resilience to a more volatile climate? Can we fix the conundrum by attaching renewable energy technologies and other devices to these *'business as usual'* types? Perhaps we can. Huge investment is underway in this belief. These are important questions

you will certainly confront in your written and design work and this series is intended to assist you in developing an informed response.

The opening talk will briefly review recent work in Cambridge on climate change. Through the lectures we will consider the potential impacts on buildings and their occupants across a number of climate types, defined in no small way by the criteria set by various national and international authorities for 'comfort' and their, perhaps, unintended consequences. We will take a keen interest in the various criteria. We will fundamentally question the recipes for the principal non-domestic building types which have emerged over the last 60 years or so. Are they fit for purpose? The evolution of the contemporary building type is an extremely complicated history of interwoven themes and accidental conjunctions. Giedion, Fitch, Banham and others have attempted partial commentaries but there is clearly much more to rediscover. How did we get to where we are today?

We will examine these challenges by investigating alternative environmental design strategies for various, largely non-domestic, public building types in various climates around the globe: libraries, buildings for industry, learning and teaching, research, political reflection, health and the Arts, in Mediterranean and Temperate climates, in Temperate climates intensified by the Urban Heat Island phenomenon, and in Tropical and Continental climates. As climates shift, designers in Temperate zones should benefit from experiences in Mediterranean climates and so on.

Each lecture will be centred around the findings of a major funded research project. The journal papers and associated publications, including film arising from the work are included in the bibliography for each talk. In many cases we will review completed buildings with innovative environmental design strategies. We will reprise the circumstances of their invention within the particular situation and environment and the criteria against which they were required to perform. They attempt to break out of the mould, for better or worse. We will review their actual recorded performance. The post-occupancy reports, peer-reviewed, are candid about their successes and failures. Through this we will develop a sense of how to evolve an authentic environmental design strategy and how difficult it seems to be. Perhaps this is why most buildings are essentially similar. It should become clear that there are still very considerable inventive opportunities for designers in what is very much an emerging field.

We will be weary of the environmental determinism that has dogged 'sustainable architecture', the relentless south facing terraces, the igloos and termite mounds. We will be aware of the dynamic nature of the phenomena we are interested in and the opportunity to respond through Architectural configuration and detail in a fundamental and perhaps quite unprecedented way. Maybe a new Architecture will emerge.

Lecture Titles:

1. When did Architecture cease to make the 'weather within'. How did we get to where we are?
2. Passive Cooling in Mediterranean Climates
3. 'Low Energy Public Buildings in Temperate Climates'
4. Natural Theatre Environments

Bibliography

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Vinikas V. (1992) *Soft Soap, Hard Sell: American Hygiene in an Age of Advertisement*, Iowa State University Press p.145-6

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2. Passive Cooling in Mediterranean Climates

Anderson S. (2010) 'The Light and the Line: Florestano Di Fausto and the Politics of 'Mediterraneità' ', Publisher: eScholarship, University of California

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3. Low Energy Public Buildings in Temperate Climates

Short, C.A., Lomas K.J., Woods, A., (2004) Design strategy for low energy ventilation and cooling within an urban heat island', *Building Research and Information*, 32 (3), May - June, pp. 187-206

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4. Natural Theatre Environments

Short, C.A. and Cook, M.J., (2005) 'Design guidance for naturally ventilated theatres', *Building Services Engineering Research and Technology*, Hodder Arnold, 26 (3), September, pp. 259-270

Cook, M.J. and Short, C.A., (2005) 'Natural Ventilation and Low Energy Cooling of Large, Non-domestic buildings – four case studies', *The International Journal of Ventilation*, 3 (4), March, pp. 283-284.

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2. Managing Urban Change: Theory and Practice

Dr Ying Jin

Course Outline

This course is an introduction to the management of urban change through physical planning and urban design, particularly regarding theories and methods for anticipating foreseeable trends (e.g. population aging at a global scale) and allowing for major uncertainties (e.g. future energy sources and prices). I will focus on aspects closely related to economics and engineering in order to address issues concerning investment, regulation, delivery and monitoring of on-going performance.

We start with the forces of agglomeration which attract today's new businesses and young people towards some (though not all) dense urban areas, and consider how to harness the forces in order to create better cities and avoid becoming victims. We then take a long view of the urban growth cycles of around 100 years which help foresee and manage needs for land, buildings and infrastructure in 5-10 year planning and design cycles. Thirdly, we analyse when it is sensible to embed cost-saving options to be taken up in the future within major design schemes, and when it is better to ignore such issues like most people do today. Finally, we use the management of urban travel as an example to see what the above theories and methods imply where it is necessary to reconcile conflicting requirements from all disciplines as an architect, urban designer or physical planner, whose duty it is to reinforce all three pillars of sustainability.

The emphasis of the seminars is to help students develop their own ways to identify and investigate project opportunities in their academic and professional work.

Lecture Titles:

1. A spikier world: why do ICT champions congregate in dense cities?
2. Growths fast and slow: do cycles of development matter?
3. The value of keeping options open: how does urban infrastructure cope with the uncertainties over its long life-span?
4. Management of urban travel: can place-making improve traffic and vice versa?

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- Hamilton-Baillie (2008). Shared space: reconciling people, places and traffic. *Built Environment*, Vol 34, pp161-181.**
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Lent Term

Core Seminar Courses

1. Resilience, modelling and policy

Dr Emily So and Dr Yeonsook Heo

Course Outline

In this course, we will introduce a broad spectrum of topics in sustainability, development and relevant research methods. We shall explore different performance aspects, including energy efficiency, resilience, thermal comfort, for buildings at individual level and for cities as a whole. That is, we explore technical, behavioural, and socio-political factors that influence the performance of buildings at different scales. The course will be driven by practical scenarios/issues that will stimulate student interest and motivate them to build a scientific foundation. In addition, the course will provide theoretical and methodological foundations for formulation of research/design problems and research methods (both quantitative and qualitative). Throughout the term, the course will help students to tackle their design/research problems through a structured analytical process.

The seminar course consists of weekly two-hour sessions including in-depth discussions based on readings of relevant books or papers listed in the core bibliography. Reading and the production of reading notes have to be done in advance of the seminar every week. PechaKucha (Week 4) will be mandatory for all attending students, but the end of Term review is optional for MAUD students.

Seminar Titles:

1. Research Design and Methodology
2. Performance-based Design (Yeonsook Heo)
3. Natural Hazards and Resilience (Emily So)
4. Student Presentations: PechaKucha (Emily So and Yeonsook Heo)
5. Building Performance Modelling and Simulation (Yeonsook Heo)
6. Measuring, Monitoring, and Testing (Yeonsook Heo)
7. Architecture for Resilience (Emily So)
8. Student Reviews - half day session (Emily So and Yeonsook Heo)

Bibliography

Set readings are marked by an asterix (*)

1. Research Design and Methodology

R. Lyman Ott and Michael Longnecker, "An Introduction to Statistical Methods and Data Analysis" Nelson Education, 2015.

John W. Creswell, "Research Design: Qualitative, Quantitative, and Mixed Methods" Sage

Publications, 2013.

William M. Trochim, "The Research Methods Knowledge Base, 2nd Edition" at URL: <http://www.socialresearchmethods.net/kb/>, 2016.

2. Performance-based Design

*Godfried Augenbroe, "The Role of Simulation in Performance Based Building", in *Building Performance Simulation for Design and Operation*, Jan L.M. Hensen, Roberto Lamberts, eds., Spon Press, 2011.

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Wolfgang .F.E. Preiser, Jacqueline C. Vischer, eds. *Assessing Building Performance*, Elsevier, 2005.

3. Natural Hazards and Resilience

Brian Walker and David Salt "Resilience Thinking: Sustaining Ecosystems and People in a Changing World" Island Press, 2012.

Disaster Resilience:: A National Imperative By Committee on Science, Engineering, and Public Policy, Committee on Increasing National Resilience to Hazards and Disasters, Policy and Global Affairs, The National Academies, 2012

Benjamin Wisner "At Risk: Natural Hazards, People's Vulnerability and Disasters". Routledge, 1994

David Alexander, "Natural Disasters", CRC Press, 1993.

Mark Pelling, "The Vulnerability of Cities: Natural Disasters and Social Resilience" Earthscan Publishing, 2003.

Useful websites:

<http://www.wcdrr.org/>

<https://www.gov.uk/government/collections/foresight-projects>

5. Building Performance Modelling and Simulation

Jan L.M. Hensen and Roberto Lamberts, eds. "Building Performance Simulation for Design and Operation" Routledge, 2012.

Ali Malkawi and Godfried Augenbroe, "Advanced Building Simulation" Routledge, 2004.

Joseph A. Clarke, "Energy Simulation in Building Design" Routledge, 2001.

CIBSE Guide A, "Environmental Design" Chartered Institution of Building Services Engineers, 2006.

CIBSE Guide F, "Energy Efficiency in Buildings" Chartered Institution of Building Services Engineers, 2004.

6. Measuring, Monitoring, and Testing

ASHRAE/CIBSE/USGBC, "Performance Measurement Protocols for Commercial Buildings" Chartered Institution of Building Services Engineers, 2010.

CAMBEEP, "Cambridge Building Energy & Environment Portal" at URL:

<http://www.cambeep.eng.cam.ac.uk/>, 2016

7. Architecture for Resilience

Bryant, M and Allan, P. "Resilience as a framework for Urban Design. Proceedings of The 4th International Urban design conference on Urban resilience, Gold Coast, Australia, 2011.

Allan P. and Bryant, M. (2011) The Attributes of Resilience: A Tool in the Evaluation and Design of Earthquake- Prone Cities. Proceedings of The International Conference on Building Resilience, Kandalama, Sri Lanka.

Donald Watson and Michele Adams, "Design for Flooding: Architecture, Landscape, and Urban Design for Resilience to Climate Change" John Wiley & Sons, 2011.

2. Perception, Health and Wellbeing in Architecture

Prof Koen Steemers

Course Outline

This course takes as its starting point a human-centric approach to architecture and urban design.

To enhance human well-being, building and urban design needs to move beyond optimising single parameters such as energy or temperature, to more holistic approaches that take their cues in health-supporting human behaviours.

The design of our built environment affects our health and well-being, and can have long-term implications on quality of life. The publication of "Nudge: Improving health, wealth and happiness" by Richard Thaler and Cass Sunstein in 2008 was influential in revealing that behaviour can be strongly influenced by context.¹ People can be nudged in to making better decisions in largely automatic, non-coercive and simple ways, through changing what Thaler and Sunstein refer to as "choice architecture".

Can architecture create choice architecture? The role that architecture can play seems evident: "Design-led interventions can make better choices easier or constrain behaviours by making certain actions more difficult".²

The purpose of this course is to outline the definition(s) of health and well-being, and to determine the implications and opportunities for design. The emphasis will be on the presence of well-being rather than the absence of ill-health. There can be no doubt that negative physical health-related considerations associated with, for example, poor indoor environmental quality should be avoided. However, this course will focus instead on supporting positive mental well-being which in turn has implications for physiological health. There is an established body of expertise related to the study of physical health with increasing quantitative evidence, but research of well-being in the built environment is a relatively recent and largely qualitative area of investigation that is nevertheless beginning to reveal consistent and widely accepted findings. These findings are interpreted here in terms of architectural design.

When we discuss well-being in buildings, it is more important to incorporate a wide range of both quantitative and qualitative health considerations rather than to focus on single, narrowly defined criteria. 'Silo thinking' tends not to aid good design (perfectionism can be crippling) and often different criteria are in tension. An alternative approach is to determine 'good enough' strategies which increase diversity and adaptability, and that are user-centred. This is not to deny the potentially chronic health impacts of poor indoor environmental quality on certain sectors of the population (i.e. large impact for a small population), but rather to balance and complement this with strategies to improve well-being for the wider population (i.e. modest improvement for a large population).

¹ Thaler, R., & Sunstein, C. (2008). *Nudge: Improving decisions about health, wealth and happiness*. New Haven, CT: Yale University Press.

² King, D., Thompson, P., & Darzi, A. (2014). Enhancing health and wellbeing through 'behavioural design'. *Journal of the Royal Society of Medicine*, 336-337.

Lecture and seminar titles (provisional):

- (1). Health and wellbeing
- (2). Thermal comfort and heat stress
- (3). Light, perception and health
- (4). The urban environment

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- Cattell, V., Dines, N., Gesler, W., & Curtis, S. (2008). Mingling, observing, and lingering: everyday public spaces and their implications for well-being and social relations. *Health Place*, 544-561.
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- King, D., Thompson, P., & Darzi, A. (2014). Enhancing health and wellbeing through 'behavioural design'. *Journal of the Royal Society of Medicine*, 336-337.
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Research Methods Course

For all MPhil students. 1st Year PhD students may also be attending subject to consent of their Supervisors.

Michaelmas Term 2016

Weeks 1-8, Lecture and Workshop on Wednesday 2-3pm in the Classroom

12 October	How to get started (Felipe Hernandez) 1 hour
19 October	GIS (Dilkushi de Alwis Pitts) 1 hour
26 October	GIS (Dilkushi de Alwis Pitts) 1 hour
2 November	Qualitative mapping (Lefkos Kyriacou) 2 hours
9 November	Surveying techniques (Steve Platt) 1 hour
16 November	Ethnographic site observation and interviewing skills (Chloe Nahum-Claudel) 1.5 hours.
23 November	Academic writing skills 1/2 (Richard Berengarten) 1.5 hours
30 November	Academic writing skills 2/2 (Richard Berengarten) 1.5 hours

In addition, GIS and CAD clinics will be organised throughout the course for helping the design studio and course work. Students should confirm with the arrangements with their Course Directors at the beginning of the Michaelmas Term 2016