

Oxford Institute for Sustainable Development (OISD)

Creating sustainable environments



ANNUAL REVIEW 2009

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UNIVERSITY

Annual Review: 2009

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1. Introduction to OISD Annual Review 2009

I am very pleased to write this short introduction to the latest Oxford Institute of Sustainable Development (OISD) Annual Review. The report shows how the work of OISD and its reputation continues to grow, nationally and internationally, both within Europe and outside it.

OISD is working on research projects with a total of 14 other UK universities, including Oxford and Cambridge. It is undertaking collaborative research with six other European universities and has research interests in many other parts of the world.

Two recently completed research programmes, funded by the Engineering and Physical Sciences Research Council conducted by OISD colleagues have been rated “tending towards outstanding” by independent reviewer and the EPSRC panel. Colleagues from OISD: Technology have been awarded the prestigious Howard Medal by the Institution of Civil Engineers.

OISD continues to play a key role not only in research but in knowledge transfer. Conferences organised during the year include the RICS/OISD Conference on “Sustainability still matters in a credit crunch” in October 2008. OISD also hosted an international workshop on Social Sustainability and Urban Regeneration as part of the European Investment Bank’s Fund EIBURS research programme in February 2009. Conference organisation is not restricted to the UK or even Europe. In May 2009 OISD organised the UK-India Conference 2009 in Delhi on Urban Sustainability and Green Building for the 21st Century. This conference helped to cement the increasing research collaboration we have with Indian institutions.

Increasingly colleagues from OISD are also partnering with colleagues from the wider University in collaborating on research proposals and projects. This is part of OISD’s dynamic approach to realising the potential from collaborators from within the University and from institutions, academic and non-academic, both nationally and internationally. Of course this dynamic approach of the staff leads to changes within OISD and following the departure of Professor Elizabeth Burton to the University of Warwick in September 2009, the OISD:WISE activity has now transferred to that institution.

In this brief introduction I have only been able to give a short snapshot of the activity of OISD but I do hope you will take the opportunity of learning more about the important work of OISD and the way it works with collaborative partners both from within academia and outside. We are keen to build further partnerships with other environmental stakeholders to carry on this important work. If you like to work with us in this exciting and challenging area of research and knowledge transfer please contact Professor Tim Dixon, the Director of OISD or any of the other researchers within OISD.



Mars Street, Dean,
School of the Built
Environment

2. OISD: Who we are and what we do

The Oxford Institute for Sustainable Development (OISD), which is based within the School of the Built Environment, was established in July 2004. In 2008-2009 there were six research groups in OISD, comprising:

- Environmental Assessment and Spatial Planning (EASP);
 - Urban Policy and International Development (UPID);
 - Urban Design (UD);
 - Sustainable Urban Environments (SUE);
 - Architecture, Culture and Technology (ACT); and
 - International Land Markets (ILM).
- Developing concepts, designs, technical and process approaches;
 - Informing policy debates nationally and internationally;
 - Developing an empirical evidence base; and
 - Contributing to enhanced stakeholder participation.

The six research groups focus on different spatial scales and processes. These groups are addressing key questions which include:

- How can we develop robust metrics systems to measure carbon footprints for buildings and cities?
- How can compact cities provide a template for sustainable development?
- How can we create sustainable, not transient, communities in regeneration?
- How can we assess environmental impact to create a sustainable future?
- How can new technologies advance sustainable building design?

OISD, therefore, has a key mission to undertake funded research on sustainability in the built and natural environments at all scales. Its aim is to advance knowledge and practice on sustainable environments by:

OISD research addresses the multiple dimensions of sustainable development (social, economic, environmental and governance) and the synergies and processes that link them. Each group has a distinct identity and research strategy, but there are also synergies between them, and multidisciplinary and interdisciplinary working is an important element of our activities. We have an annual income of approximately approximately £800,000 per annum from research councils, government, industry and charities.

For more information on our activities see our website at:

www.brookes.ac.uk/schools/be/oisd/

3. OISD: Director's Report



This year has been a very active and eventful year for OISD. Whilst we saw the departure of several members of staff to other institutions (most notably, Elizabeth Burton and her WISE team to Warwick University at the end of 2009, Nicola Dempsey to University of Sheffield, Andrea Colantonio to LSE and Hom Rijal to Tokyo University) we have continued to grow and expand our portfolio of research, and have also invested considerable effort in producing papers and outputs which will have an impact on policy and practice.

Collaborating with partners in industry and academia is now an everyday part of research life, and we have also seen over the last year a growing partnership with colleagues from the Environmental Change Institute, Smith School for Enterprise and Environment and the James Martin 21st Century School, all based at Oxford University, both in terms of conferences and research proposals. Some of this activity is already bearing fruit and we hope there will be more successes to come, not only with Oxford University, but with other

institutions as well. Indeed, as you will see from the news stories in this year's review, we have also placed a strong emphasis on making connections with partners in India, which we see as a great opportunity for dialogue and shared learning when it comes to sustainability in the built environment.

'Doing more with less' has become a catchphrase for most of UK business and academia and certainly competition for funding is hotting up, so tracking research opportunities and making the most of our existing talent will be paramount to success. Increasingly we are seeing a strong focus on interdisciplinary and multidisciplinary calls, and there is now also a strategic move within Oxford Brookes to ensure we capitalise on our strengths to build interdisciplinary teams across Schools, and, as we move into 2010/11, across our new Faculties. In OISD we will continue to seek to develop a portfolio of funded research which is based on a variety of sources: in this respect diversifying across income sourced from the research councils, industry and the public sector will also be essential. Indeed, we are already planning for the next REF 2013 which will see the 'impact' of research play a much bigger role than before.

Those of us who are research active also teach and it was also really good news to see the launch of our new doctoral training programme during the year. At Brookes our newly-introduced Doctoral Training Programmes (DTP) are designed to be distinctive, reflect the university's research strengths and deliver a high standard of advanced interdisciplinary training. DTPs are already available in Intelligent Transport Systems and Urban Futures. Four more programmes have been approved in Medical Humanities, Biomedical Health Research, Children and Young People, and Global Politics, Economy and Society. The Urban

Futures Doctoral Training Programme is based within the School of the Built Environment at Oxford Brookes University, with the School of Life Sciences as co-partner. It forms part of Oxford Brookes' ambition to develop a site of excellence for doctoral training provision. The programme includes a substantial training element in research methods and futures methodologies, a seminar series bringing together students and key researchers in sustainable futures, and provides students with the opportunity to develop their area of interest in a focused and interdisciplinary environment. The Urban Futures programme is designed to address the key challenges of global urban growth, and the implications not only for the built and natural environments, but also the creation of sustainable urban futures. The programme places particular emphasis on understanding environmental and technical challenges; behavioural and policy context; futures thinking; and societal impact. There is therefore a strong urban policy and practice component.

The programme invites applications for fully funded PhD studentships in the following research areas:

- 'Sustainable urban form': helping create urban futures which are truly sustainable.
- 'Urban utopias and dystopias': the way in which studies of the past can inform not only the present, but also future change in urban areas.
- 'Climate change: human adaptation and mitigation': how society (in its broadest sense, including the social constructs of policy measures) and climate change interact to produce impacts and consequences for urban futures.

(Please see the School of the Built Environment website for further details.)

From September 2010, we are also introducing a new MSc in Climate Change and the Built Environment, which aims to promote a shared interdisciplinary understanding amongst built environment professions and users, aware of the broader political issues in climate change policy, and yet able to produce innovative and feasible solutions, working with communities, politicians and experts. This programme substantially draws on OISD's existing research, professional practice and teaching in the field. (Please see the School of the Built Environment website for further details.)

At the time of writing we are reviewing the existing structure of OISD and how best we might possibly develop a wider role for OISD within the new Faculties for 2010-11. Please visit our website to keep up to date with developments. The next year is sure to be eventful and exciting for all concerned!

Professor Tim Dixon, Director of OISD and Professor of Real Estate

Acknowledgement: We would like to thank all our colleagues in OISD, the School for the Built Environment, and the School departments in compiling this report, especially, Bridget Durning and Michele Dodd.

4. OISD: Stories from the year

These are just some of our main news stories from 2008-2009. For more news see our website at: www.brookes.ac.uk/schools/be/oisd/news/index.html

OISD research is highly rated by EPSRC (October 2008)



Engineering and Physical Sciences
Research Council

Two recent research programmes based in OISD and funded through the Engineering and Physical Science Research Council (EPSRC) have been rated as 'tending towards outstanding' by independent reviewers and the EPSRC panel.

Professor Fergus Nicol's work with Dr Hom Rijal and Rev Professor Michael Humphreys (all based in OISD: Architecture) on 'Predicting the effect of occupant behaviour on thermal comfort and energy use in buildings' used user surveys to build a model of the use of simple controls such as windows and fans in naturally ventilated buildings. The model of occupant behaviour fed in to dynamic simulation techniques. In a practical sense the project has given building designers and other end users a method for predicting the future risk of discomfort and energy use in occupied naturally ventilated buildings accounting realistically for occupant behaviour. The work was conducted in partnership with Professor Joe Clarke and Dr Paul Tuohy of the University of Strathclyde.

The work of the EPSRC SUBR:IM consortium which featured Professor Tim Dixon's (OISD: ILM) research on the 'Role of the Development Industry in Brownfield Development' also received a high rating. Finding

Solutions to the problems of developing brownfield land was the goal of SUBR:IM (Sustainable Urban Brownfield Regeneration: Integrated Management), which ran from July 2003 until July 2007. Funded by EPSRC under its Sustainable Urban Environments initiative and the Environment Agency, it drew together ten major academic and research institutions in a programme designed to improve the quality of urban environments. The consortium aimed to develop technical solutions and tools for restoring brownfield land in urban areas, whilst at the same time increasing the knowledge base of all stakeholders involved in such development. This included investors, developers, planning bodies and local authorities, but also the general public and engineers who work with such problems.

Professor Tim Dixon, Director of OISD, said:

'We are delighted to receive these ratings for our EPSRC work, which are testimony to the excellent track record of quality outputs in our EPSRC-funded work. Fergus Nichol's work is internationally recognised and the work of SUBR:IM has influenced policy at a national level. We intend to build on these successes with other well-focused proposals and bids to EPSRC.'

RICS/OISD Conference: 'Sustainability still matters in a credit crunch' (October 2008)

Despite warnings about an 'eco-crunch', sustainability will continue to be a critical dimension within the built environment sector, delegates heard at the recent RICS/OISD conference on 'Creating a Sustainable Built Environment'.

The evening conference, which was held on 14th October 2008 at Oxford Brookes University, brought together

more than 25 delegates from RICS membership in the South East Region from surveying and architecture practices, and the private and public sectors, and covered three main dimensions to OISD's work:

- Sustainability and value;
- Inclusive design; and,
- Post-occupancy evaluation.

Introducing the conference and the work of OISD, Professor Tim Dixon (Director of OISD and Professor of Real Estate) said that:

'Although the credit crunch is starting to bite, the sustainability agenda is with us for the long term. Sceptics have argued that cost constraints will mean an 'eco-crunch', but the strong likelihood is that legislation, innovation and competitive edge will continue to drive the sustainability agenda in the built environment. Research that addresses the barriers to sustainability in the changing economic climate, and develops cost-effective technologies will therefore be even more important to undertake.'

Dr Claire Roberts and Dr Sally Sims gave presentations related to continuing research work in OISD:ILM on 'sustainable offices' (funded through IPF) and 'renewables and value' (funded by RICS). Both speakers highlighted the importance of value impact and payback in terms of the 'sustainable features' in commercial and domestic properties, and in overcoming the barriers to sustainability in property markets. Lynne Mitchell (OISD:WISE) gave an overview of her work with Professor Elizabeth Burton and other colleagues on inclusive design for older people, focusing on 'neighbourhoods for life', and their highly rated EPSRC I'DGO research. This was followed by Dr Fionn Stevenson's (OISD: Architecture) presentation on post-occupancy evaluation, focusing on end users and

their behavioural patterns in buildings, and also highlighting the ground-breaking wireless technology being used by OISD researchers to assess levels of energy use in a real home occupied by a young family.

Martin Russell-Croucher, Director of Accreditation and Certification at RICS, who attended the conference said:

'The RICS South East 'Creating a Sustainable Built Environment conference' at Oxford Brookes University demonstrated the depth and quality of the research being undertaken at OISD/Oxford Brookes in key areas of interest to property and built environment professionals.'

Alison Adams, Event Co-ordinator, RICS South East said:

'The conference provided a great forum to demonstrate the work of the OISD. The differing topics and speakers gave a very interesting insight into various aspects of sustainability in the built environment, and the feedback from delegates on the quality of the conference was extremely complimentary.'

OISD:UPM research for NESTA shows that 'history matters' for Britain's city regions (October 2008)

A major research report co-authored by Professor James Simmie and Dr Juliet Carpenter of OISD:UPM, with Andrew Chadwick of OISD : IAU (and all from Department of Planning) with Professor Ron Martin of Cambridge University suggests 'history matters' in understanding which are the most and least successful city regions in Britain.

The report, published by National Endowment for Science, Technology and the Arts (NESTA), is entitled 'History Matters: Path Dependence and Innovation in British City Regions', and focuses on evolutionary economics and models of path dependence to explain differences in growth and performance amongst Britain's city regions over the last 20 years.

In the context of the impending global economic recession, understanding what makes for successful city regions is vital if we are to understand the big picture within our major conurbations. At the heart of this is the concept of 'innovation' which is commercial exploitation of new knowledge and ideas, driven by research investment, science park growth and the links between universities and commerce and business.

Buoyed by the success of Silicon Valley, Hsinchu region, or Helsinki, innovation is seen by leading regions as the key to staying ahead; in those that lag, as an opportunity to catch up. The result has been a plethora of ambitious innovation strategies. Unfortunately, the common thread has often been under-delivery.

The results of this research contain important lessons for national and regional economic policymakers. Developing new 'pathways' for

economic development depends, to a large degree, on a city-region's local innovation system and absorptive capacity. However, individual policy interventions are likely to have little impact on economic development if they do not take into account previous economic structures and their legacy. Perhaps most importantly, policymakers must be patient and allow major interventions time to bear fruit.

Jonathan Kestenbaum CEO, NESTA in his foreword to the report writes:

'This work feeds into a wider body of work that deals with the spatial aspects of innovation policy. Its insights underpin many of the practical programmes we have underway at NESTA and it forms the backdrop to our work with the nations, cities and regions that make up the UK.'

(Further information: www.nesta.org.uk).

HM/26 / Published: July 2008
Policy Briefing



History Matters

Unlocking innovation in British cities and regions

Innovation performance varies substantially across Great Britain' and the different history of each city-region has a substantial bearing on its economic position today. But until recently, regional development policy has not reflected either the functional status of city-regions, nor taken full account of their histories.

But this is a major oversight. City-regions with traditional heavy industries have found it harder to adapt to new ideas than those starting with a clean industrial slate. The point is amply illustrated through a case study of two contrasting cities – Cambridge and Swansea – with dramatically different innovation outcomes flowing from their particular histories.

Policymakers need to develop an historical awareness in crafting regional innovation policy. City-regional governments should think carefully about how their unique historical development might determine their strategies for the future. And each city-region is different: breaking from an existing, low-innovation path is about more than applying a generic 'regional innovation' formula.

Uneven innovation across the UK has historical roots

Innovation is uneven across the UK, occurring in high-innovation clusters
Innovation performance varies substantially across the UK, with some regions and localities performing well above the national average.² However, many of today's innovation outcomes reflect unique historical attributes.

A new NESTA research report shows how the long-term economic and structural development – including industrial specialisation – of British cities and regions has helped determine their success or failure.³ But regional agencies have until recently failed to adapt to such diversity.

There remains a tension between arbitrary administrative boundaries and economic and social reality

Regional boundaries rarely reflect economic reality
National and regional administrative boundaries provide frameworks for government policies and strategies. National boundaries reflect distinctive national histories, with devolved powers since 1999 reflecting these.

But the nine English regions were largely an administrative convenience. Their current borders were established in 1994 with the Government Offices of the Regions, reinforced by new Regional Assemblies and Regional Development Agencies (RDAs) in 1998.⁴

Below these regions, and over centuries, a patchwork of local authorities has grown up. Their borders are no less arbitrary, established by convention, local identities, national reform or even gerrymandering. Rarely have they reflected economic need.

Recent reforms have attempted to reshape regional and local government on economic lines
Government has historically attempted to deliver regional development policies through this thicket of institutions and authorities. But economies vary as much within regions as between them: they can span towns, cities and rural areas that cross administrative boundaries. Recent reforms and initiatives have attempted to address this by shifting the focus of economic development policies to a lower tier of government.

The 1998 Competitiveness White Paper and the then Department of Trade and Industry's cluster mapping identified regional and sub-regional areas for economic development. Six English 'Science Cities' promoted a more widespread

NESTA Making Innovation Research

1. The data in the 'History Matters' report refer mainly to Great Britain, but references to the UK are made where appropriate.
2. Office of the Deputy Prime Minister (2008) 'State of the English Cities', London: ODDM.
3. Simmie, J., Carpenter, J., Chadwick, A. and Martin, R. (2008) 'History Matters: Path dependence and innovation in British city-regions', London: NESTA.
4. House of Commons (1998) 'Regional Development Agencies Bill – Bill 100 of 1997/98', Research Paper 98/77.

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Institution of Civil Engineers awards Howard Medal to OISD:Technology staff (November 2008)

Dr Xiaoxin Wang, Dr Chris Kendrick, Professor Ray Ogden and Dr Nick Walliman have been awarded the Howard Medal from the Institution of Civil Engineers for their paper 'VIP and their applications in buildings: a review'. The paper explores aspects of the materials science that has informed recent research carried out by OISD: Technology to develop novel forms of highly insulated cladding panels (approximately six times more insulating than conventional technologies).



Left to right: Dr Nick Walliman, Mr David Malcolm Orr (ICE President), Professor Ray Ogden and Dr Xiaoxin wang

Professor Ray Ogden (Group Leader of OISD: Technology and Assistant Dean, Research in School of the Built Environment) said:

'The Howard Medal founded in 1872 typically goes to Civil Engineering based research groups. It has been awarded twice to Napier University in the last three years, and once to Cambridge University. Winning it is a real recognition of the unusual quality of interdisciplinary activity in the technology area within the School of the Built Environment at Brookes.'

The Awards Ceremony was held in the Great Hall at the ICE (London) on Friday 24 October 2008.

Prof Ray Ogden is chair of the International Scientific Committee for Vacuum Insulation. He and the team at Oxford Brookes worked

in collaboration with Cambridge University Department of Engineering, to organise the 9th International Conference on Vacuum Insulation and advanced insulation technology in September 2009 (see: www.brookes.ac.uk/schools/be/ivisnet/index.html).

New EPSRC Research Begins on 'Understanding Walking and Cycling' (December 2008)



Tim Jones: researcher in OISD: SPU



Tim Jones and Alison Chisholm from OISD:SPU (and the Department of Planning) have begun research with partners from the Universities of Lancaster and Leeds on a three year EPSRC-funded project titled Understanding Walking and Cycling.

An increase in walking and cycling for short journeys in urban areas could significantly reduce traffic congestion, improve the quality of the urban environment, promote improved personal health, and contribute to a reduction in carbon emissions. Yet recent reviews of research on travel behaviour have emphasised that the ways in which travel decisions are made remain poorly understood, especially in the context of complex and contingent household travel arrangements. This means that policies and interventions to promote walking and cycling are being developed without full understanding of their likely impacts

across the population, which may lead to unintended effects and limited success. The research aims to develop a better understanding of how decisions about short-distance everyday mobility are made, and about how these decisions – especially with regard to walking and cycling – are embedded in individual and household circumstances. Working in four study sites across England, the researchers will adopt intensive and innovative qualitative methods, linked to established quantitative techniques, to demonstrate the ways in which economic, social, cultural, environmental and perceptual factors interact to construct different personal identities of walking and cycling. Engaging a range of stakeholders throughout, the project will assess the implications that these have for travel behaviour and the development of policies and interventions designed to promote more sustainable travel. Alison Chisholm said:

'By understanding more about the personal and household factors that influence the decision of whether to walk or cycle, we hope that this project will contribute something new and valuable to efforts to boost sustainable transport and improve quality of life. This is crucial at a time when issues such as local traffic congestion, public health and climate change are high on the political agenda.'

Contact: Tim Jones (tjones@brookes.ac.uk) or Alison Chisholm (achisholm@brookes.ac.uk)

OISD Hosts International Workshop on Social Sustainability and Urban Regeneration (February 2009)

OISD hosted a workshop involving a 'Delphi' group of urban regeneration experts from across Europe, as part of research undertaken within the European Investment Bank's funded EIBURS research programme.

The workshop, held on the 19 and 20 February 2009, was the first part of the final stage of the three year programme of research which began in 2006, and which focused on how to measure and integrate social sustainability within urban renewal projects across the EU.

The main aim of the workshop was to bring together research project participants and EIB representatives in order to share knowledge, expertise and best practice in the fields of urban regeneration, social sustainability, delivery mechanisms for regeneration, and financial instruments for urban areas. Some fourteen speakers were involved in the workshop, which focused on regeneration projects in Cardiff, Rotterdam, Turin and Barcelona.

Mateu Turró, responsible for urban projects at the EIB and coordinator of the EIB-Universities Action Programme (EIBURS), participated in the workshop, and stressed the importance of cooperation between researchers and practitioners in the field of sustainable communities in order to establish adequate indicators of project quality. He explained that new developments in EU policy, which support integrated urban planning and innovative methods of financing, will also require assessment methods that are still at their infancy and praised the work carried out by the OISD, supported by the EIB, in finding appropriate indicators for social sustainability. He suggested that:

'The workshop was very timely in providing focused discussions between the research team and regeneration experts, and the outcomes will certainly contribute to firm proposals for the practical application of social sustainability indicators.'

Prof Tim Dixon (Director of OISD) said:

'This workshop presented us with a very important opportunity to tap into the expertise of experts associated with some of the most important regeneration projects across Europe.'

Measuring social sustainability upstream and downstream within these projects presents tremendous challenges, but the interview work we have conducted within the EU and the workshop findings both suggest that the development of a new, generic social sustainability framework can advance our knowledge and thinking in this field. We are grateful to EIBURS for funding this work.'

Carbon Mapping by OISD and Cities Revealed puts Climate Change Act into Place (March 2009)



In March 2009 OISD and the Department of Architecture at Oxford Brookes University announced a partnership between the OISD: Architecture unit and the GeoInformation® Group, publishers of Cities Revealed aerial photography (www.citiesrevealed.com), to provide Carbon Mapping services using a residential property-level Geographical Information System-based CO2 emission model (DECoRuM®). The award-winning DECoRuM® model developed by Dr Rajat Gupta (Reader

and Co-Director of OISD: Architecture) is able to measure, model and map emissions on a house-by-house level so that pollution hotspots can be spatially targeted. DECoRuM® can also generate scenarios for domestic emissions reductions by predicting the carbon savings and cost-benefits of deploying a range of energy efficiency measures and low/zero carbon systems in UK homes. DECoRuM® was awarded the 2006 RIBA President's award for outstanding research and has also received the southeast proof of concept (SEPOC) award in 2006-2007.

The significant advantage of DECoRuM® is that it enables local authorities to establish baseline CO2 emissions from their housing stock in a consistent and cost-effective manner. By considering 95 input parameters and through robust data reduction techniques, DECoRuM® calculates tonnes of CO2 per year or kgCO2/m2/year emitted from each individual property. These outputs are provided in a mapping database and are linked to address point records that enables CO2 emissions to be aggregated and calculated at the street, postcode, ward or authority area level. This helps local authorities that are required to seek reduction in their CO2 emissions and in the emissions within their authority area to meet government targets set through National Indicators 185 and 186.

The GeoInformation Group provides valuable input data including information on dwelling age, structural type and building height that are used within the model to generate thematic maps of baseline CO2 emissions UK homes. Alun Jones, Managing Director of The GeoInformation Group, states:

'Gathering CO2 emissions from householder surveys is subject to inaccuracies of returns and the figures produced are based on basic or reduced energy models. The DECoRuM® solution helps to provide a low-cost, authority-wide baseline model that enables residential properties to be measured quickly en masse.'

Dr Rajat Gupta, the developer of the DECoRuM® model believes that:

'DECoRuM® offers a next-generation academically-rigorous approach to mapping CO2 emissions from energy used in UK homes. It can help in maximising CO2 reductions in the existing housing stock and achieve carbon neutrality in new homes.'

The main target users for the model include planners in local authorities, energy advisers, building surveyors and real estate professionals.

OISD research for IPF shows emerging demand for sustainable offices in the UK (March 2009)



Research from OISD suggests that there is an emerging and increasing demand for sustainable offices in the UK, but location, availability of stock and other factors continue to remain more important in determining occupiers' final choice of office.

The research is important because, for the first time, it analyses actual occupier moves and the choice of office made in relation to sustainability, rather than 'preferred' or 'hypothetical' choices.

Professor Tim Dixon, who led the OISD research with Dr Claire Roberts, Gina Ennis-Reynolds and Dr Sally Sims, said:

'This research shows that committed occupiers are placing an increasing emphasis on sustainability. However, it is clear that we are still trying to break out of a 'circle of blame' culture. A key implication of our research is that it will be vital for the discussions around the UK Green Building Council's Code for Sustainable Buildings to be made a reality: truly sustainable buildings are still a very small proportion of total stock and additional mandatory standards and financial incentives will be needed to drive change.'

The research highlighted factors such as:

- Sustainability (as represented by explicit sustainability features in a building) is less important than location, availability of suitable stock, overall building quality and other factors in the final choice of office, but has become relatively more important in moves made over the last 12 months, or moves which were imminent.
- The most common sustainability features in office buildings are flexible space, efficient energy and utilities, effective monitoring systems, and sustainable waste and water systems.
- Occupiers who moved to a BREEAM-rated building, and were based in business sectors with strong environmental / corporate responsibility policies, place more emphasis on sustainability than other groups in the final choice of office, but 'location' and 'availability' remained paramount.
- Nearly one third of respondents had specified minimum levels of environmental performance in the agent's brief, but only three mentioned sustainability explicitly. The majority of those that had specified environmental standards tended to move to BREEAM-rated offices.

- Committed occupiers are likely to find and select office buildings with a greater number of sustainability features present, despite competition for such space, and a perception of market undersupply by occupiers.
- Some 42% of respondents suggested that they had assessed the business and financial case for sustainability in their overall choice of office, but the perceived, additional costs of sustainability remains a key barrier for occupiers.
- Organisational change is a key driver in the market for sustainable offices: occupiers want buildings which can help them achieve cultural change and encourage more sustainable practices. The key benefits of such buildings include a better public image, improved client relations, and improved employee retention.

The overall aim of the research was to determine the nature and extent of demand for sustainable offices in the UK. Based on 87 telephone and face-to-face interviews with 50 major corporate occupiers and other stakeholders, and detailed analyses of five case study buildings which were carried out during April-November 2008, the research examined the reasons behind actual office moves made within the previous two years, and assesses the extent to which sustainability played a role in the final choice of office building.

The research was funded through the Investment Property Forum (IPF) research programme and both summary and full reports are available from the IPF.

UK-India Conference 2009: Urban Sustainability and Green Buildings for the 21st century (May 2009)

OISD recently organised the third consecutive UK-India conference, this time based around the theme of 'Urban sustainability and Green Buildings for the 21st Century' with RICS India and the Commonwealth Association of Surveying and Land Economy (CASLE).

As the first major conference of RICS India, the event was held at the prestigious India International Centre in Delhi, chaired by Dr Rajat Gupta (Reader, Department of Architecture, OBU and OISD: Architecture), Mr Brian Waldy (Chairman, The RICS foundation, UK) and Mr Sachin Sandhir (Country Head, RICS India). Other speakers from OBU included Mr Peter Dent (Principal Lecturer, OISD: International Land Markets and former Head, Department of Real Estate and Construction) who was one of the keynote speakers, and Smita Chandiwala (Research Fellow, Department of Architecture) who was an expert speaker at the workshop on 'environment rating systems for green buildings'. This event aptly built on the past two UK-India conferences on Greening Cities and Events for a lasting legacy (2007) and Sustainable energy technologies and low carbon buildings (2008), organised by Dr Gupta in collaboration with British Council Delhi.

This event attracted about 225 delegates from the fields of architecture, planning, construction, real estate and policy-making, who attended a series of plenary sessions and expert workshops on the subject of cities and sustainability; carbon mapping; green building design and performance; sustainable materials and construction; environment rating systems for green buildings; strategies for green buildings-what works; post-occupancy building evaluation; and green buildings in the market-investment and values. In addition to speakers from Oxford Brookes,

other speakers included experts from the Ministry of New and Renewable Energy and Bureau of Energy Efficiency, Government of India; Indian Institute of Technology (IIT) Rorkee; IIT Delhi; The Energy and Resources Institute (TERI); School of Planning and Architecture (SPA); and CASLE. An active Q&A session was held in the closing plenary with experts from UK and India discussing and debating the linkages between policy, research and practice to help us move rapidly towards a low energy, low carbon and sustainable future.

Speaking at the occasion, Mr. Deepak Gupta, Secretary of the Ministry of New & Renewable Energy, Government of India, said:

'There is a lack of awareness between consumers, architects and developers about the importance & benefits of green buildings. In this context, conferences such as this one are very important to address these issues amongst the stakeholders. Another important aspect is rating systems used for measuring the greenness of buildings, and it is imperative that rating systems followed in India are synergized with international standards. It's our endeavour that all new government buildings should have a 4-star rating.'

Dr Rajat Gupta, Conference Chair from Oxford Brookes University, said:

'We are standing at an important threshold of improving the sustainability of our buildings, towns and cities to address the challenges of increasing climate change, security of energy supply, population growth, resource depletion, growing recession and economic decline. This timely conference has brought together leading international researchers, professionals, policy-makers and other stakeholders to exchange ideas and knowledge in the field of urban sustainability and green buildings. It is hoped that this event acts as an incubator for future collaborations and partnerships between the UK and India.'

Mr Peter Dent, a keynote speaker from Oxford Brookes University, added:

'India has a rapidly growing economy. This, in itself raises significant issues about sustainability from economic, environmental and social perspectives. This conference was a forum to help professionals focus on a range of built environment issues. The eclectic approach adopted at the conference produced a lively debate and a frank exchange of views from technical details and policy implementation to behavioural change and sustainability literacy.'

The conference also highlighted the need for developing and applying city-wide carbon counting and urban sustainability tools, and aligning Indian environment rating systems such as GRIHA and LEED-India in line with international rating systems. It also called on the building community to avoid 'green washing' by focusing on measuring the 'actual' energy performance of building through post-occupancy evaluation, so that we can move towards evidence-based green building design and performance.



Closing Plenary at the India International Centre in Delhi



Q&A session between experts and attendees (Mr Peter Dent, Prof Ashok Lall, Dr Rajat Gupta)

5. New OISD research projects

OISD annual income during 2008-09 was approximately £788,000 comprising:

Research Councils	£381,000
UK Charities	£5,000
UK Government/Local Authority	£79,000
UK Industry	£178,000
EU Government Bodies	£90,000
Other Overseas	£6,000
Other Sources	£49,000

Table 1 sets out the details of our successful grant bids in excess of £5000 during the same period.

Funder	Title	Lead Academic	OISD Group	Amount	Date Awarded	Start Date	End Date
Osaka University	Joint Japan-UK Project	Tim Dixon	ILM	£9,000.00	01/09/2008	01/09/2008	30/04/2010
Sagong University	Government intervention in housing supply	Youngha Cho	ILM	£5,000.00	23/09/2008	01/10/2008	30/09/2009
Gifford Ltd	Post occupancy evaluation of University of Portsmouth Library	Rajat Gupta	ACT	£15,000.00	30/10/2008	01/11/2008	30/09/2008
Arts council England (Museum Libraries and Archive Council)	Standard charge for arts and museum infrastructure in association with new development	Robin Ganser	EASP	£13,000.00	01/11/2008	01/11/2008	31/01/2009
RICS Education Trust	Regenerating hardcore brownfield sites in England and Japan: a comparative study of Manchester and Osaka	Tim Dixon	ILM	£8,000.00	19/11/2008	01/12/2008	31/05/2010
British Council (UKIERI)	Cityform India	Shibu Raman	SUE	£27,000.00	25/11/2008	01/10/2008	30/09/2010
Rupert Taylor Ltd	Noise and the EIA process (research for DEFRA)	Graham Wood	EASP	£6,000.00	26/11/2008	09/12/2008	22/05/2009
Geoffrey Osbourne	Age well - East Sussex	Elizabeth Burton	SUE	£8,000.00	27/11/2008	01/12/2008	01/08/2009
Shoreditch Trust	Public space in Shoreditch	Nicola Dempsey	SUE	£10,000.00	06/12/2008	04/01/2009	27/05/2009

Funder	Title	Lead Academic	OISD Group	Amount	Date Awarded	Start Date	End Date
Central Research Fund - Oxford Brookes University	Building Low Carbon Communities (BuLoCC)	Tim Dixon, Ray Ogden	OISD	£15,000.00	16/12/2008	01/09/2009	31/07/2010
Halcrow Group Ltd	Land use and transport - Phase 3	Peter Headicar	EASP	£7,000.00	11/03/2009	01/08/2009	10/09/2009
EPSRC	Suburban neighbourhood adaption for a changing climate (SNACC)	Rajat Gupta	ACT	£190,000	17/03/2009	01/09/2009	01/09/2012
Homes and Communities Agency	The Carbon Challenge: developing an environmental evaluation of housing performance in new communities	Fionn Stevenson	ACT	£15,000.00	23/03/2009	31/03/2009	30/09/2009
TRAD Hire & Sales Ltd	Tests on loading tower components	Mike Godley	ILM	£7,000.00	25/03/2009	06/04/2009	05/06/2009
Corus UK	Pre-Engineered Interfaces Envelope	Nick Walliman	ACT	£29,000.00	27/03/2009	01/04/2009	31/7/10
Corus UK	Air-Tightness of Envelopes	Nick Walliman	ACT	£37,000.00	27/03/2009	01/04/09	31/07/10
The Steel Construction Institute - RFCS Project	Renovation of Buildings Using Steel Technologies (ROBUST) - Phase 2	Ray Ogden	ACT	£25,000.00	01/04/2009	01/04/2009	31/12/2009
European Commission	Floodprobe	Ray Ogden	ACT	£126,000.00	29/05/2009	01/01/2010	31/12/2013
EPSRC (via Warwick University)	CityForm-India: Achieving sustainable urban development in India's rapidly growing cities	Shibu Raman	SUE	£54,000.00	01/06/2009	18/01/2010	17/01/2012
Central Research Fund - Oxford Brookes	Doctoral Training Programme - Urban Futures	Tim Dixon/Sue Brownill	ILM	£252,000.00	03/06/2009	01/09/2009	31/07/2012
BSL Scaffolding UK Ltd	Tests on the BSL scaffolding system	Mike Godley	ILM	£10,000.00	14/07/2009	15/09/2009	31/12/2009
Save the Children	Shelter learning advisory service	David Sanderson	ACT	£40,000.00	17/07/2009	01/10/2009	30/09/2010
Haskoning UK Ltd (for EDF Energy Ltd)	Sizewell ES Socio-Economic Studies for New Power Stations	John Glasson	EASP	£86,000.00	22/07/2009	01/08/2009	28/02/2010
Haskoning UK Ltd (for EDF Energy Ltd)	Hinksey Point ES Socio-Economic Studies for New Power Stations	John Glasson	EASP	£87,000.00	22/07/2009	01/08/2009	28/02/2010
Technology Strategy Board (via Kier)	Mincarb House	Nick Walliman	ACT	£10,000.00	24/07/2009	01/09/2009	30/11/2009

Funder	Title	Lead Academic	OISD Group	Amount	Date Awarded	Start Date	End Date
Technology Strategy Board (via Home Group)	Retrofitting of a post-decent mid-terraced home to reach one-eighth of existing energy use and CO2 - North-West England	Rajat Gupta	ACT	£18,000.00	24/07/2009	01/09/2009	30/11/2009
Technology Strategy Board (via Home Group)	Retrofitting of a post-decent mid-terraced home to reach one-eighth of existing energy use and CO3 - Scotland	Rajat Gupta	ACT	£16,000.00	24/07/2009	01/09/2009	30/11/2009
Technology Strategy Board (via Ridge Construction)	The Oxford whole house carbon reduction project	Rajat Gupta	ACT	£9,000.00	24/07/2009	21/09/2009	30/11/2009

6. OISD doctoral programme

OISD and the School for the Built Environment place a strong emphasis on linking research with teaching. In terms of total numbers doctoral numbers, some 60 research students graduated between 1 October 2008 and 30 September 2009. Some 36 full-time PhD students were conferred across the University during this period of which 8 were students from the School of the Built Environment. Table 2 shows the conferments (i.e. those who were examined and awarded their PhD during 2008-2009) in detail.

Table 2 PhD Conferments (2008-2009)

Name	Department	Project title
Matias Kozak	Architecture	Urban fragmentation in Buenos Aires: the case of Abasto
David Sanderson	Architecture	Integrating development and disaster management concepts to reduce vulnerability in low income urban settlements
Allen Firth	Planning	The pursuit of coherence in historic conservation management: help or hindrance?
Sang-Soo Mun	Planning	Tiering approaches in the spatial development process and SEA
Bassem Fahmy	Planning	Local communities as sustainable tourism development partners
Louise Whitehead	Planning	Involuntary urban resettlement: a study of socio-cultural livelihood impoverishment and reconstruction in Phnom Penh, Cambodia
Tim Jones	Planning	The role of national cycle network traffic-free paths in creating a cycling culture: the case of NCN Route 5 Stafford
Yanet Lazama-Lopez	Urban Design	Conflict and cultural heritage production processes: the case of Coyoacan

PhD: Tim Jones- The Role of National Cycle Network in Creating a Cycling Culture



Visions of future sustainable transport routinely feature cycling. Replacement of short journeys by car with cycling in urban areas could help to reduce traffic congestion, improve the quality of the urban environment, benefit personal health and well-being and contribute towards a low carbon economy. However, rates of cycling for everyday travel in the UK have continued to decline as lifestyles have become more car dependent and cycling marginalised.

The National Cycle Network (NCN) developed by Sustrans provides around 12,000 miles of traffic-free walking and cycling paths, quiet lanes and on-road cycling routes passing within a mile of over 55% of the population. 2010 marks the 15th

anniversary of the National Cycle Network since Sustrans became the first charity to receive funding towards its development (second only to the Millennium Dome!) from the newly-created National Lottery. However, despite this significant policy intervention aimed at creating a cycling culture there is relatively little research on the effects of such interventions on the local communities which they serve.

Tim's research aimed to plug this gap by comparing neighbourhoods in a medium size town in the English Midlands with varying levels of access to a significant section of purpose built NCN cycle path linking homes with everyday activities. A controlled cross-sectional survey of the local population was conducted to compare attitudes to cycling as well as current and planned cycling behaviour.

Findings revealed that awareness of Sustrans and the National Cycle Network was found to be poor across neighbourhoods. Increased familiarity with cycle route provision was not likely to increase the likelihood that it would be used for cycling. Indeed, whilst residents living closer to the NCN were more likely to acknowledge that there were more opportunities for them to cycle they were no more likely to feel moral obligation to use their cars less. Despite lack of any measurable effect on practical cycling (i.e. to work, to the shops etc) the NCN was found to be significant in facilitating near-to-home recreational cycling – good news for health professionals though not so good for professionals in the planning field interested in modal shift!

Overall, Tim's study suggests that provision of cycle paths alone may be insufficient in encouraging a shift from car to cycling for everyday travel purposes. It seems that a multi-faceted approach to promoting cycling is required which combines social marketing with physical measures including; wider speed restrictions in urban areas, investment in high quality cycle facilities and general land use and transport policies that 'advantage cycling' and reduce the convenience of the car.

Whilst completing his PhD Tim was successful in being awarded £1.2M along with Lancaster University and University of Leeds by the EPSRC to undertake a 3yr study titled 'Understanding Walking and Cycling' (see page eight of this Review). Tim is also working part time with the Transport Studies Unit at the School of Geography and the Environment, University of Oxford, on another 5-yr EPSRC funded project titled iConnect (Impact of Constructing Non-motorised Networks and Evaluating Changes in Travel) study which aims to measure and evaluate the changes in travel, physical activity and carbon emissions related to Sustrans' Connect2 programme. This is an ambitious UK-wide project that will transform local travel in 79 communities by creating new crossings and bridges to overcome barriers such as busy roads, rivers and railways, giving people easier and healthier access to their schools, shops, parks and countryside.

7. Research esteem measures for OISD

Examples

Dr Rajat Gupta was guest editor of a special issue of a refereed journal International Journal of Low-Carbon Technologies (published by the Oxford University Press) on the theme Sustainable energy technologies and low carbon buildings: the case of UK and India (September 2009).

Dr Rajat Gupta is a Visiting Fellow at Arizona State University, USA, where he is leading a carbon mapping project for the University and City of Tempe buildings.

Dr Ramin Keivani is Lead editor of new International Journal of Urban Sustainable Development.

Professor Tim Dixon is an Honorary Fellow of the Institute of Green Professionals and a member of the CORENET Sustainability Working Group.

OISD Collaborators

In the UK we have collaborative research programmes with:

- University of Strathclyde
- University of Sheffield
- University of Cardiff
- University of Manchester
- University of Southampton
- Heriot-Watt University
- Edinburgh College of Art
- University of Salford
- University of Reading
- University College London
- University of Cambridge
- University of Oxford
- University of Warwick
- Salford University
- De Montfort University

In Europe, there are collaborative research projects with universities in:

- Amsterdam
- Hamburg
- Milan
- Toulouse
- Paris
- Stuttgart

Further afield, we have for example, PhD Training agreements with Chulalongkorn and Thamassat, and collaborative research projects with:

- Moscow Academy of Sciences
- Georgia State University
- Waterloo University
- University of Melbourne

We also have many links through visiting staff roles.

Our funders

Over the last four years these have included:

- AEA Technology
- Afro Group of Companies
- AOSEC
- Arts Council England (Museum

Libraries and Archive Council)

- Beckers Industrial Coatings Limited
- Berkley Group Homes
- Brett Martin Daylight Systems
- British Academy
- British Council (UKIERI)
- British Council (Delhi)
- British Council of Offices
- BSL Scaffolding UK Ltd
- CORUS
- Cranborne Chase and West Wiltshire Downs AONB
- Daiwa Anglo Japanese Foundation
- DCLG
- Deborah Services Limited
- Defra
- DTI
- EDFEnergy
- EPSRC
- ESRC
- European Coil Coating Association
- European Investment Bank
- European Union
- Everup Scaffolding Company Ltd
- Geoffrey Osbourne Limited
- Gifford Ltd
- Good Homes Allinace
- Groundwork SE
- Hackney Borough Council
- Halcrow Group Ltd
- Haskoning UK Ltd
- HEFCE (HEIF)
- Home Group
- Homes and Communities Agency
- Infinergy Ltd
- International Art and Architecture Research Association
- Investment Property Forum
- JA Pye Ltd
- John Comerford
- Kier Construction
- Kingerlee Homes
- Living Steele

- Lyndon Scaffolding Systems
- Magnox Decommissioning
- Millenium Scaffolding Systems
- Momena
- National Access and Scaffolding Confederation
- National Federation of Self Employed and Small Businesses Limited
- NESTA
- Osaka University
- Oxford Brookes
- Oxford City Council
- Oxfordshire County Council
- Portacabin Ltd
- RICS
- RICS Education Trust
- Ridge Construction
- Royal Haskoning
- RTPi
- Rupert Taylor Ltd
- Sagong University
- Save the Children
- SFS Intec
- Shoreditch Trust
- Sport England
- Steel Construction Institute
- Stewart Milne Group
- Sustrans
- Technocraft
- Technology Strategy Board
- TEN
- Terrance O'Rourke
- Terrapin
- The Steel Construction Institute
- TRAD Hire & Sales Ltd
- UKAEA
- Unite Ltd
- UNITE modular solutions
- University College London
- University of Oxford
- University of Westminster
- VROM
- Whitton Industrial Limited

8. Practising what we preach

As a research institute we are very conscious of the fact that our own behaviour on a personal and professional basis can have an impact on the environment. Researchers can, for example, clock up a large number of air miles on conference trips, and we all have an immediate impact on our surroundings in our journey to work if we use cars. Here are some simple examples of how we are trying to cut carbon emissions:

- OISD is a member of the UK Green Building Council.
- Brookes has a Green Travel Plan and a dedicated bus scheme with increasing use promoted to staff, students and community (Brookes bus scheme - Green Award gained).
- Waste management scheme and movement sensitive lighting in the Buckley building where the core of OISD is based.
- Oxford Brookes University electricity is supplied from 100% renewables.
- Members of OISD are on the University's sustainability and corporate responsibility working parties.

9. Full OISD staff listings



The photograph shows Professor Tim Dixon, Director of OISD (far left, front), with fellow research staff based in OISD, and other staff in the School of the Built Environment.

Environmental Assessment and Spatial Planning Group

Name	Job title	Department
Stephen Brown	Research Associate	Planning
Andrew Chadwick	Research Associate	Planning
Dr Bridget Durning	Senior Research Fellow and Manager (Research and Consultancy)	Planning
Jamie Elwin	Senior Lecturer	Planning
Dr Robin Ganser	Senior Lecturer	Planning
Prof John Glasson	Emeritus Professor, Co-Director of Impact Assessment Unit, Founding Director of OISD	Planning
Peter Headicar	Reader in Transport Planning	Planning
Dr Tim Jones	Research Assistant	Planning
Dr Tim Marshall	Reader	Planning
Richard Nunes	Senior Lecturer in Spatial Planning	Planning
Dr Anastassios Perdicoulis	Visiting Research Fellow	Planning
Dr Jake Piper	Senior Research Fellow	Planning
Dr Augustin Rodriguez-Bachiller	Senior Lecturer	Planning
Prof James Simmie	Professor of Innovation and Urban Competitiveness	Planning
Prof Riki Therivel	Visiting Professor	Planning
Philip Turner	Senior Lecturer	Planning/REC
Dr Dave Valler	Reader, Director of Spatial Planning Unit	Planning
Dr Joe Weston	Principal Lecturer	Planning
Elizabeth Wilson	Director of Taught Postgraduate Programmes, Reader in Environmental Planning	Planning
Dr Graham Wood	Reader, Co-Director of Impact Assessment Unit	Planning
Peter Smith	Senior Lecturer	

Urban Policy and International Development Group

Name	Job title	Department
Dr Camillo Boano	Associate Lecturer	Planning
Dr Sue Brownill	Principal Lecturer	Planning
Dr Juliet Carpenter	Senior Research Fellow	Planning
Dr Ellie Jupp	Research Fellow	Planning
Dr Beacon Mbiba	Senior Lecturer, Director of International Migration and Development Unit	Planning

Dr Nando Sigona	Research Associate	Planning
Prof James Simmie	Professor of Innovation and Urban Competitiveness	Planning
Prof Stephen Ward	Professor of Planning History	Architecture
Dr Emma Wragg	Associate Lecturer	Planning

Urban Design Group

Name	Job title	Department
Prof Ian Bentley	Emeritus Professor	Architecture/JCUD
Prof Georgia Butina-Watson	Head of Department of Planning, Director of Urban Design Group	Planning/JCUD
Andrew Burns	Associate Lecturer, Director of Matrix	Planning
Dr Jon Cooper	Senior Lecturer in Planning and Urban Design	Planning/JCUD
Maria Faraone	Associate Lecturer in Urban Design	
Prof Brian Goodey	Emeritus Professor of Landscape Design	Planning/JCUD
Rebecca Kiddle	PGTA in Urban Design	JCUD
Jacob Kimaryo	Research Associate	JCUD
Dr Karl Kropf	Associate Lecturer, Research Associate in Historic Conservation and Urban Design	Planning/JCUD
Dr Regina Mapua Lim	Associate Lecturer, Research Fellow	Planning
Dr Laura Novo de Azevedo	Senior Lecturer in Planning and Urban Design	Planning
Tom Medcalf	Associate Lecturer in Urban Design	
Dr Alan Reeve	Savills Reader, Programme Leader in Urban Design	Planning/JCUD
Dr Roger Simmonds	Associate Lecturer	Planning/JCUD
Dr Michelle Thomas	Senior Lecturer and Course Leader of MSc in Historic Conservation	Planning

Architecture, Culture and Technology Group

Name	Job title	Department
Dr Bousmaha Baiche	Research Fellow	Architecture
Rod Burgess	Senior Lecturer	
Smita Chandiwala	Researcher in Carbon Counting	Architecture
Dr Rajat Gupta	Reader and Co-Director of Architecture Unit	Architecture
Mary Hancock	Senior Lecturer	Architecture
Michael Hill	Research Associate	Real Estate and Construction/ Architecture

Revd Prof Michael Humphreys	Emeritus Professor	Architecture
Dr Chris Kendrick	Senior Lecturer	Architecture
Maria Rita Kessler	Associate Lecturer	Architecture
Justyna Laszczynska	Research and Office Assistant	Architecture
Prof Byron Mikellides	Professor	Architecture
Prof Fergus Nicol	Professor	Architecture
Prof Raymond Ogden	Associate Dean (Research), Director of Technology Unit	Architecture
Prof Paul Oliver	Visiting Professor	Architecture
Dr Aylin Orbasli	Senior Lecturer	Architecture
Dr Shibu Raman	Research Fellow	Architecture
Dr Hom Rijal	Research Assistant (from Sept 09 based at University of Tokyo)	Architecture
James Robinson	Senior Research Fellow	Architecture
Dr Paola Sassi	Senior Lecturer	Architecture
Prof David Sanderson	Professor	Architecture
Dr Fionn Stevenson	Reader, Co-Director of Architecture Unit	Architecture
Dr Marcel Vellinga	Senior Lecturer, Director of International Vernacular Architecture Unit	Architecture
Dr Nicholas Walliman	Senior Lecturer	Architecture
Dr Xiaoxin Wang	Research Fellow	Architecture
Nicholas Whitehouse	Senior Research Fellow	Architecture

Sustainable Urban Environments

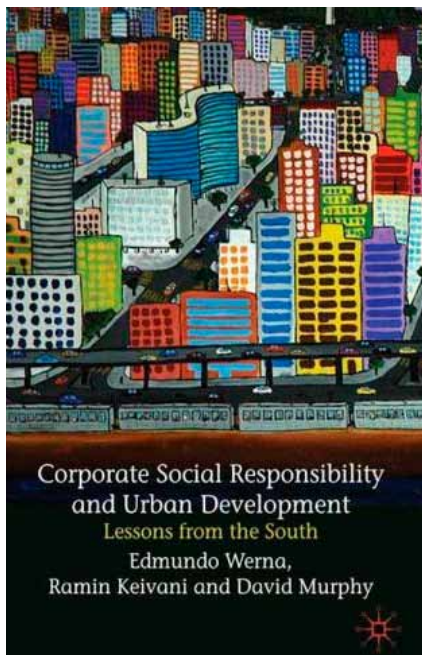
Name	Job title	Department
Prof Elizabeth Burton	Professor of Architecture and Wellbeing, Director of WISE (from Sept 09 located at Warwick University)	Architecture
Dr Carol Dair	Research Fellow, Director of OISD: Cities	Architecture
Dr Nicola Dempsey	Postdoctoral Research Assistant (from Sept 09 located at University of Sheffield)	Architecture
Amanda Griffin	Postgraduate Research Assistant (from Jan 10 located at Warwick University)	Architecture
Prof Mike Jenks	Emeritus Professor	Architecture
Dr Lynne Mitchell	Research Fellow (from Jan 10 located at Warwick University)	Architecture
Dr Shibu Raman	Research Fellow	Architecture

International Land Markets

Name	Job title	Department
Henry Abdanda	Research Assistant	REC
Dr Albert Cao	Senior Lecturer	REC
Dr Franco Cheung	Senior Lecturer	REC
Dr Youngha Cho	Senior Lecturer	REC
Dr Andrea Colantonio	Research Fellow (from Sept 09 located at London School of Economics)	REC
Gina Dalton	Deputy Head of Department	REC
Peter Dent	Head of Department	REC
Prof Tim Dixon	Professor of Real Estate, Director of OISD	REC
Prof Nick French	Professor of Real Estate	REC
Richard Grover	Principal Lecturer	REC
Dr Ramin Keivani,	Research Co-ordinator and Tutor, Director of International Land Markets Group	REC
Dr Esra Kurul	Senior Lecturer	REC
Prof Anthony Lavers	Visiting Professor	REC
Austine Ng'ombe	Research Assistant	REC
Dr Claire Roberts	Senior Lecturer	REC
David Shiers	Senior Lecturer	REC
Dr Sally Sims	Lecturer	REC
Dr Mike Stubbs	Senior Lecturer	REC/Planning
Prof Joe Tah	Professor in Construction Management	REC
Rev Brian Wood	Senior Lecturer	REC
Dr Xu Ye	Lecturer	REC

10. OISD Publications

Examples of some of the books published by OISD and related School of the Built Environment staff members.



The publications in the following lists cover the period September 2007 to September 2008.

Environmental Assessment and Spatial Planning (EASP)

OISD:IAU

Books/Book Chapters

2008

Simmie, J. (2008). The Contribution of Clustering to Innovation: From Porter 1 Agglomeration to Porter II Export Base Theories. In: Karlsson, C. (ed.) *Handbook of Research on Innovation and Clusters*. Cheltenham: Edward Elgar, pp.19-32.

2009

Chadwick, A. (2009). Socio-economic Impacts 2: Social Impacts. In: Morris, P. and Therivel, R. (eds.) *Methods of Environmental Impact Assessment*. London: Routledge.

Glasson, J. (2009). Socio-Economic Impacts 1 :Overview and Economic Impacts. In: Rodriguez Bachiller, A. and Wood, G. (2009). *Geographical Information Systems and EIA*. In: Morris, P. and Therivel, R. (eds.) *Methods of Environmental Impact Assessment*, 3rd Edition. London: Routledge.

Piper, J. and Wilson, E. (2009). Built Environment. Chapter 5, In: Berry, P. (ed.) *Climate Change: Impacts of Mitigation and Adaptation Measures on Biodiversity*. Sofia: Pensoft pp 147-170.

Wilson, E. (2009). Use of scenarios for climate change adaptation in spatial planning. In: Davoudi, S., Crawford, J. and Mehmood, A. (eds.) *Planning for Climate Change: Strategies for Mitigation and Adaptation for Spatial Planners*. London: Earthscan, pp.223-235.

Conference Papers

2008

Simmie, J. (2008). New Technological Regimes and their Spatial Evolution in English Cities. In: *European (ESF) Workshop on Evolutionary Economic Geography*. St Catherine's College, Cambridge.

Smith, P. (2008). Lessons to be Learned from an Online Questionnaire Survey of Students' Expectations of a Research-based Curriculum. In: *Staff Educational Development Association (SEDA) Conference*. Regents Park, London.

Smith, P. and Rust, C. (2008). Creating a True Community of Academic Practice Through Research-based Learning. In: *Scholarship of Teaching and Learning (SoTL) Conference*. Regents Park, London.

Smith, P. and Rust, C. (2008). Creating a True Community of Academic Practice Through Research-based Learning. In: *Brookes Student Learning Experience (BSLE) Conference*. Oxford Brookes University, Oxford.

Wilson, E. (2008). Environmental impact assessment and climate change. In: 4th meeting of the parties to UN ECE Espoo Convention on Trans-boundary EIA. Bucharest, Romania

2009

Durning, B. (2009). Developing Globally Responsible Citizens Through Undergraduate Research. In: 15th Annual International Sustainable Development Research Conference Utrecht.

Durning, B. and Ferguson, E. (2009). Comparison of UK and US Planning Skills. In: The Planning Research Conference Newcastle.

Smith, P. (2009). A Case Study of Students Accessing Research Data from one of the Emerging Data Observatories. In: Learning Through Enquiry Alliance (LTEA) Conference. University of Reading.

Wilson, E. (2009). Strategic environmental assessment and climate change, Panel 3 Societal change to address climate change. In: *UN Economic Commission for Europe 63rd Session* Palais des Nations, Geneva.

Journal Articles

2008

Glasson, J. (2008). Integrating the State Planning Strategy and State Sustainability Strategy : Matches and Mismatches Towards Synergy and Consistency of Approach for Western Australia. *Journal of Built Environment Research* 1 (1), pp 1-34

Glasson, J. (2008). Development of a Statewide Sustainability Checklist for the - for the Western Australian Planning System. Keeping it Simply Sustainable *Journal of Built Environment Research* 1 (1) pp 35-103

Glasson, J. and Hanutsch, M. (2008). Much ado about SEA/SA monitoring: the performance of English Regional Spatial Strategies, and some German comparisons. *Environmental Impact Assessment Review*, pp.602-617.

Piper, J. et al. (2008). MACIS: Minimisation of and Adaptation to Climate Change Impacts on Biodiversity. *Gaia* 17 (4), pp.393-395.

Patterson, J. S. Araujo, M.B, Berry, P.M, Piper, J.M, Rounsevell, M.D.A et al. (2008). Mitigation, Adaptation and the Threat to Biodiversity. *Conservation Biology* 22 (5), pp.1352-1355.

Simmie, J. and Carpenter, J. (2008). Towards an Evolutionary and Endogenous Growth Theory Explanation of Why Regional and Urban Economies in England are Diverging. *Planning Practice and Research* 23 (1), pp.101-124.

Simmie, J. and Martin, R. (2008). Path dependence and local innovation systems in city-regions. *Innovation: Management, Policy and Practice* 10 (2-3), pp.183-196.

Simmie, J. and Martin, R. (2008). The Theoretical Bases of Urban Competitiveness: Does Proximity Matter? *Revue d'Economie Regionale & Urbaine* 3, pp.333-351.

2009

Glasson, J. and Wood, G. (2009). Urban regeneration and impact assessment for social sustainability. *Impact Assessment and Project Appraisal* 27 (4), pp.283-290.

Perdicoulis, A. and Glasson, J. (2009). The Casualty Premise of EIA In Practice. *Impact Assessment and Project Appraisal*.27(3),pp247-250

Therivel, R. (2009). Appropriate Assessment of plans in England. *Environmental Impact Assessment Review* 29 (4), pp.261-272.

Therivel, R. et al. (2009). Sustainability-focused impact assessment. *Impact Assessment and Project Appraisal* 27 (2), pp.155-168.

Wilson, E. (2009). Multiple scales for environmental intervention:spatial planning and the environment under New Labour. *Planning Practice & Research* 24 (1), pp.119-138.

Reports

2008

Berry, P. et al. (2008). *Meta-analysis of Adaptation and Mitigation Measures Across the EU25 and Their Impacts and Recommendations as to How Negative Impacts can be Avoided*. Report from the MACIS project available on-line at <http://www.macis-project.net/pub.html>

Piper, J. and Wilson, E. (2008). *Policy Analysis for Biodiversity Under Climate Change*. Report from the MACIS project available on-line at <http://www.macis-project.net/pub.html>

2009

Piper, J. and Wilson, E. (2009). Built Environment chapter. In: Berry, P. (ed.) *Biodiversity in Balance: Mitigation and Adaptation Conflicts and Synergies (MACIS)*.

Books

2008

Ganser, R. (2008). Assessing Sustainability in Urban Planning - Potential and Problems of Indicator Based Monitoring as a Means to Measure and Monitor Outcomes of Policy Implementation. In: Heberle, L. and Opp, J. (eds.) *Local Sustainable Urban Development in a Globalized World*. London: Ashgate.

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Appendix: OISD and SoBE Senior Management Team (Research) and Related Staff



Professor Tim Dixon
Director of OISD

Professor Tim Dixon is Professor of Real Estate and Director of the Oxford Institute for Sustainable Development (OISD) in the School of the Built Environment at Oxford Brookes University, UK. With more than 25 years' experience of research, education and professional practice in the built environment he is a fellow of the RICS and of the Higher Education Academy, a member of SEEDA's South East Excellence Advisory Board, as well as the editorial boards of five leading international real estate journals. He has worked on funded collaborative research projects with UK and overseas academics and practitioners and his personal research interests revolve around (1) the sustainability agenda and its impact on property development, investment and occupation, and (2) the impact of ICT on commercial property and real estate markets. The research is based on a strong interdisciplinary approach which incorporates policy and practice impacts, and futures thinking. He is also a member of the CORENET Sustainability Working Group, and a member of the Steering Group for the 'Future of Cities' Research programme, based in the James Martin 21st Century School at Oxford University. In 2009 he was awarded Honorary Fellow status of the Institute of Green Professionals. He also leads the new interdisciplinary doctoral training programme on Urban Futures within the School of the Built Environment. He regularly contributes to undergraduate and postgraduate teaching and supervision within the Department of Real Estate and Construction.

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Professor Ray Ogden
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Professor Ray Ogden is Assistant Dean (Research) for the School of the Built Environment and Deputy Head of the Department of Architecture. He is also Professor of Architecture; holder of the Corus Chair of the Building Envelope and Steel Construction Institute Chair of Architectural Technology; Director of the Corus Colorcoat Centre for the Building Envelope (a leading centre of excellence and knowledge leadership in metal building envelope technologies); and Director of OISD:Technology. He has been involved in steel sector research and development activities since 1989 during which time he has carried out a broad range of national and international projects, and authored numerous publications in the areas of building physics, building envelope design and steel construction. Professor Ogden is involved in a wide range of fundamental research activities and 'close to industry' applied research and development.

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Dr Bridget Durning
OISD Research Manager

Bridget Durning is Manager: Research and Consultancy for OISD. She is also a Senior Research Fellow within the OISD:EASP group, specialising in the fields of skills and knowledge development in the delivery of sustainable communities and environmental management tools and processes. Bridget joined the Department of Planning at Oxford Brookes in 2000 as Project Manager on a Government funded 4 year consortium project investigating the teaching/research-professional practice nexus. Prior to this she spent 8 years in private practice in environmental management and land development and 3 years in local government as a specialist adviser in sustainable development issues to three planning authorities. She has been Manager of Research and Consultancy activities in OISD since it was founded in 2004.

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