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CENTRE FOR URBAN & REGIONAL ECOLOGY

Annual Report

v0.3
08-07-08

**CENTRE FOR URBAN & REGIONAL
ECOLOGY,**

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1. **Background**

The Centre for Urban and Regional Ecology (CURE) was established in 2000 to address new research agendas on regionalism, sustainability and the rebuilding of environmental capital. Based in the School of Environment and Development at the University of Manchester, CURE carries out multidisciplinary research both for scientific understanding and for practical application. The common theme is that of ecology – the organisation and interactions of complex communities, both natural and human, from the local to the European scale. Based in Manchester, the world's first industrial city, CURE is well placed to research large and vibrant conurbations as they go through different stages of development; from rapid expansion to adaptation to post industrial conditions. The establishment of CURE coincided with the publication by [Joe Ravetz](#) of *City-Region 2020* which uses Greater Manchester as its laboratory and develops an integrated, strategic approach to planning for sustainability. *City Region 2020* offers a vision for how things can and should change – a direction of travel towards the future, with methods and tools for the journey.

Today, CURE has a growing reputation for pioneering work on urban and regional sustainability at the interface between the natural and the social sciences.

Environmental assessment has always been a key strand in its work and in 2006, CURE was further strengthened by being joined by the long established and internationally renowned Environmental Impact Assessment (EIA) Centre. CURE enjoys close working links with other research centres within the School of Environment and Development, especially CUPS (the Centre for Urban Policy Studies) and MARC (the Manchester Architecture Research Centre).

CURE draws its expertise principally from the disciplines of Spatial Planning, Geography and Environmental Science. Its members comprise academic staff, together with externally funded research staff and an active group of research students

The aim of CURE is to advance the quest for urban and regional sustainability by undertaking solutions driven research which is recognised for its quality by peers and practitioners.

To this end it is our intention to:

- Provide a focal point for research into urban and regional sustainability at the University of Manchester *with a view to influencing academic, policy and practice agendas*;
- Tackle research problems at a *variety of geographic scales* from the local to the global, but with a special focus on Greater Manchester and North West England as an observatory for ecological inquiry;
- Bring a *multidisciplinary approach* to bear on research into urban and regional sustainability, building collaborative links with researchers across the School of Environment and Development, the University of Manchester and beyond;

- Encourage the cross-fertilisation of ideas and pooling of skills amongst academic staff and research students within a *collegiate working environment*;
- Provide a supportive *home for researchers at all stages in their careers* and offer peer help and assistance for all aspects of the research process; and
- Develop alliances beyond the University and undertake *collaborative work* with Government and industry, but especially engaging with non governmental organisations who are committed to sustainability objectives.

The Centre has its own dedicated office space and technical facilities through the EPSRC funded GIS / CAD laboratory to facilitate our research activities centred around spatial analysis, modelling and visualisation in support of urban and regional sustainable development.

Current research falls into three themes:

- a) [The Sustainable City-Region](#).
- b) [Adaptive Landscapes](#).
- c) [Environmental Assessment and Management](#).

a) Sustainable City-Region

Programme Manager: Joe Ravetz

This programme looks at the transition of cities and regions in the UK and EU, towards low carbon and low footprint development paths. This involves optimum combinations of technology, economics, regulation, infrastructure development, and lifestyle / consumption choices. Enabling this are new concepts of responsibility, stewardship, equity and collateral, participation and citizenship. In turn these translate into new modes of business organization, investment vehicles, decision-making structures, virtual networks and communities. One overarching question is how to manage such complexity? The CURE Sustainable City-Region programme has four strands, which combine theoretical, policy and business applications:

- ***Environment-development studies***: urban-regional systems modelling, resource flows, business-environment issues: this centres on an advanced modelling system for UK / regional production and consumption, with many policy applications.
- ***Spatial development studies***: spatial frameworks, land use planning, urban design and policy analysis, at local / regional / national / EU levels.
- ***Futures, ICT and information systems***: including scenario methods, cyber-infrastructure, science and innovation studies.
- ***Evaluation and participation studies***: extended and multi-level appraisal and assessment techniques for multi-level and multi-lateral governance.

b) Adaptive Landscapes

Programme Manager: John Handley

This theme explores the ways in which the impact of systemic changes can be mitigated against and adapted to at the landscape scale. Diverse natural and human landscapes provide the analytical context for work undertaken in this theme. Geographical information systems (GIS) play a key role, enabling detailed analysis of outcomes at a variety of different scales, both physical and temporal. Climate change mitigation and adaptation has become an increasingly important element of this theme (particularly within the Northwest region), as has flood risk management and river basin and coastal zone management more generally. The role of different institutions in providing a policy framework for adaptive landscape management is also an important facet of this theme.

c) Environmental Assessment and Management

Programme Manager: Carys Jones

The analysis of the role, implementation and effectiveness of policies, plans, programmes and projects is central to this theme. Work focuses on Environmental Impact Assessment, Strategic Environmental Assessment and Sustainability Appraisal, which between them provide an armature for the evaluation of the impacts of human actions at a wide variety of different scales. The assessment of spatial plans has been the subject of much recent research, as have offshore gas and oil assessment procedures. A recent study has also examined the role of sustainability indicators in regional development, focusing on how these indicators relate to the concerns of policy makers to whom the findings of environmental assessment procedures are often directed.

- Five year review of implementation of Directive 85/337
- Effect of EIA on planning decisions in the UK (ESRC)
- Role of monitoring and post-auditing in EIA

2. Membership & management

Director:

John Handley	john.handley@manchester.ac.uk
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Co-Directors:

Joe Ravetz	Joe.ravetz@manchester.ac.uk ,
Sarah Lindley	sarah.lindley@manchester.ac.uk
Carys Jones	carys.jones@manchester.ac.uk

Academic Staff:

Adam Barker	adam.barker@manchester.ac.uk ,
Richard Kingston (also CUPS)	richard.kingston@manchester.ac.uk ,
Iain White	iain.white@manchester.ac.uk ,
Frank Brown (also MARC)	frank.brown@manchester.ac.uk ,
Philip Bell	philip.bell@manchester.ac.uk ,
Joanne Tippett	joanne.tippett@manchester.ac.uk ,
Ian Douglas (Emeritus Professor)	ian.douglas@manchester.ac.uk ,

Research Staff:

Nick Green	charles.green@manchester.ac.uk ,
Graeme Sherriff	graeme.sherriff@manchester.ac.uk ,
Jeremy Carter	jeremy.carter@manchester.ac.uk ,
Juliet Richards	juliet21@talktalk.net ,
Nigel Lawson	nigel.lawson@manchester.ac.uk ,
Leyli Bektashi	

Staff in the process of joining:

Seb Carney	sebastian.carney@manchester.ac.uk ,
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Research students:

This includes currently registered students where CURE staff members are first or second supervisors.

Surname	Name	Discipline	Supervisor 1	Supervisor 2	Entry date	Final deadline	Current Year
Cavan	Gina	Planning	J.Handley	S.Lindley	Sep-04	Sep-08	2
Chou	Rung-Jiun	Planning	M. Hebbert	I.White	Sep-05	Sep-09	2
Foo	Ruth	Planning	C.Wong	A.Barker	Sep-06	Sep-10	1
Gilchrist	Anna	Planning	J.Handley	A.Barker	Sep-05	Sep-09	2
Hall	Justine	Planning	J.Handley	R.Kingston	Sep-07	Sep-11	1
Kim	Eunkyoung	Planning	M.Baker	P.Bell	Sep-06	Sep-10	1
Kolodziejzski	Ann	Planning	M.Baker	J.Tippett	Sep-05	Sep-11	1
Le Roux	Eben	Planning	J.Tippett	P.Mann	Sep-05	Sep-09	2
Lee	Ting-I	Planning	C.Wong	P.Bell	Sep-06	Sep-10	1
Lu	Yueh-e	Planning	M.Hebbert	A.Barker	Jan-06	Jan-10	2
Miedzinzki	Michael	Planning	J.Ravetz	M.Keenan	Sep-07	Sep-11	1
Ogbuokiri	Anthony	Architecture	F.Brown	G.Keeffe	Sep-04	Sep-08	3
Reefat	Ahmed	Architecture	F.Brown	G.Keeffe	Jul-05	Jul-09	2
Shih	Wan-Yu	Planning	J.Handley	I.White	Sep-06	Sep-10	1
Squires	Graham	Planning	I. Deas	R.Kingston	Sep-05	Sep-09	2
Viitanen	Jenni	Planning	R.Kingston	J.Coaffee	Sep-06	Sep-10	1
Wesolowski	Cassandra	Planning	C.Jones	R.Kingston	Sep-05	Sep-09	2
Wilkinson	Dominic	Architecture	M. Hebbert	F. Brown	Sep-05	Sep-09	2
Zhou	Kai	Planning	R.Kingston	J.Ravetz	Sep-07	Sep-11	1

Honorary fellows

Name	Title	Duration of appointment	Email
Stephan Pauleit	Honorary Senior Fellow	1 November 2006 – 31 October 2009	sp@kvl.dk
William Sheate	Honorary Senior Fellow	1 April 2007 – 31 March 2010	w.sheate@cep.co.uk
Susannah Gill	Honorary Fellow	1 October 2007 – 30 September 2010	susannahgill@merseyforest.org.uk

Management structure and reporting

The centre is overseen by the *SED Research Committee*, to which it normally reports on an annual basis. To this end, the CURE Management Group coordinates the production of an annual report, detailing the Centre's research activities and finances in the preceding and forthcoming years.

The centre itself is managed through a core *Management Board*, comprising the Executive Director and Co-Directors. The Management Board meets on a regular basis to develop strategy, oversee ongoing Centre projects and to offer support and

assistance to the Executive Director in his / her management of the day-to-day aspects of CURE activities.

In addition to the Management Board meetings, management and communication within the Centre is facilitated by;

- Research Opportunities Meetings – these are short meetings held on a 3 weekly cycle of academic and research staff to scan the research funding horizon so as to identify and respond to research opportunities;
- Informal seminars, known as ‘CURE lunches’, are held on a monthly basis where staff and research students discuss topics of mutual interest and test out innovative research concepts;
- Annual Away Day for all CURE researchers to discuss research progress and strategic development of the Centre;

Advisory Forum

The CURE Advisory Board comprising senior level practitioners and academics from other Universities. It acts as a sounding board for strategic development and operates through a variety of mechanisms, including workshops and an annual meeting. The Advisory Board receives and comments on the Centre’s annual report. More broadly its work is to help broker national and international academic and practitioner linkages in respect of the dissemination of CURE research findings and the identification of new research opportunities.

Staff development

In addition to regular informal contact, an annual programme of performance development reviews has now been initiated. The Executive Director of CURE is normally involved in the line management of all the Centre’s research assistants / associates or post-doctoral fellows, working in tandem with the relevant Principal Investigator(s) or supervisor(s). The specific role of the Executive Director in this regard is to offer constructive support and guidance on longer-term aspects of career development, looking beyond immediate project related work activities. By providing a supportive environment for research assistants / associates and postdoctoral fellows, the intention is to help their development as rounded researchers, helping them to advance in career terms along the lines of past CURE researchers since the Centre’s establishment (Annex 4).

Academic staff members of CURE are involved in the review process covering all PhD students in SED. As well as helping to monitor overall student progress in the normal way, the aim is to offer constructive support and advice in relation not only to student theses, but also to longer-term development as researchers. A particular concern is to ensure that PhD students are integrated with Centre activities, are able to participate in discussion about CURE strategy and can benefit from involvement in the wider array of research activities under the Centre’s auspices.

3. Achievements in 2007-8

Major success in grant applications

A full listing of grants awards and applications 2007-8 is in the Annex 2.

- SUREGEN: Regeneration Simulation Workbench (For EPSRC SUE2 programme) (JR&RK)
- Strategic Policy Intelligence: advising the Board of the Environment Agency (JR & JC)
- Housing and Neighbourhood Monitor, Joseph Rowntree Foundation (RK et al)

Selected major publications

A full listing of CURE staff publications 2007-8 is in the Annex 1.

Carter, J. White, I. and Richards, J. (2008) Sustainability appraisal and flood risk management, *Environmental Impact Assessment Review*, forthcoming.

Douglas, I., Garvin, S., Lawson, L. and White, I. (2008) Urban Pluvial Flooding: a case study of cause, effect and non-structural mitigation, *Journal of Flood Risk Management* (Submitted).

Gill, S. E. John F. Handley, A. Roland Ennos, Stephan Pauleit, Nicolas Theuray and Sarah J. Lindley (in press) Characterising the urban environment of UK cities and towns: a template for landscape planning. *Landscape and Urban Planning*

Gill, S., Handley, J., Ennos, R. and Pauleit, S. (2007). Adapting cities for climate change: the role of the green infrastructure. *Built Environment*. 30(1), 97-115.

Green, N (2007) 'Functional Polycentricity: A definition in terms of social network analysis', *Urban Studies*, 44(12), 2077-2103

Lindley, S. J., J. F. Handley, D. McEvoy, E. Peet and N. Theuray (2007) The role of spatial risk assessment in the context of planning for adaptation in UK urban areas. *Journal of Built Environment*.

Ravetz, J (2007) Sustainable Development Strategy and the CSR, In: Talbot C & Baker M (Eds) *The Alternative Comprehensive Spending Review 2007*, Manchester University Press pp138-154

Roberts P, Ravetz J, George C, (in press) '*Environment and the City: critical perspectives on the urban environment around the world*': Routledge / Taylor & Francis.

Sherriff, G. (2008) 'Towards Healthy Local Food: Issues in Achieving Just Sustainability', *Local Environment*

Tippett, J., Handley, J. F. and Ravetz, J. 2007. 'Meeting the challenges of sustainable development—A conceptual appraisal of a new methodology for participatory ecological planning.' *Progress in Planning*, **67** (1): 1 - 98. (Comment: paper entered for the RAE, 'most downloaded paper from Progress in Planning' at least two quarters in a row)

White, I. and Richards, J. (2007) Planning Policy and Flood Risk: The Translation of National Guidance into Local Plans, *Planning Practice and Research*, Vol. 22 (4) pp 513 - 534.

Major conferences / public engagements

- John Handley was lead speaker on climate change adaptation at the Future of Cities IHP World Congress, Copenhagen 2007.
- John Handley was keynote speaker at the national conferences of Landscape Institute, Forestry Commission and TCPA.
- Joe Ravetz was Scientific Panel convenor at the ConAccount, Prague 2008: (international conference on urban metabolism):
- Joe Ravetz was session chair & keynote speaker, UN World Habitat Day, 2006 & 2008:
- Joanne Tippett was Chair of the 2008 International Conference of the UK Systems Society – Building Resilience: Responses to a Turbulent World at St. Anne's College, Oxford University: and vice chair for the 2007 conference Knowledge Exchange.

Policy & industry engagement

- Consultants to the Environment Agency at Board level, on Strategic Policy Intelligence (JR & JC)
- Advice to DCLG in a) the development of guidance on climate adaptation (JFH / SL / SG) and b) optimizing urban form (JFH / NG);
- Submission to Parliamentary Enquiry on Flooding (IW / ID / NL)
- Board Membership UK Land Restoration Trust. (JFH)
- A novel product (Registered Design No: 3022250), which is to be incorporated as a spin-off company in 2008, as Thinkit Trading. Thinkit™ is a hands-on toolkit, a workshop 'in a bag', which enables people to think and work together. (JT)

Training/ knowledge transfer

During 2007-2008 CURE members have been actively engaged in disseminating outputs from their research at local, national and international scales to practitioners and others beyond the immediate fields of their research specialisms.

The 'Sustainable City-Region' theme, based on North West England, was presented at a United Nations World Habitat Day seminar and in a United Nations Industrial Development Organization training course, as well as a Welsh Assembly Government event (Ravetz). In addition, presentations were made to the Geographical Association and various materials contributed to the *Companion Encyclopaedia of Geography* (Douglas).

Dissemination of ongoing work on climate change adaptation, flood risk and the Water Framework Directive, was the main focus from the 'Adaptive Landscapes' theme, with presentations to the planning profession at both European and UK levels (Carter, White) and to the North West Regional Environmental Protection Advisory

Committee of the Environment Agency (Carter). Other presentations covered stakeholder engagement in coastal flood risk management (Barker and Kingston) to the planning sector, and dealing with moorland wildfires.

The 'Environmental Assessment and Management' theme was promoted at the European level through a plenary session on sustainability assessment at the Swedish Impact Assessment Conference (Jones), and a contribution on EIA and cultural heritage to the occasional paper series of the Walloon Regional Ministry in Belgium (Jones). A day workshop was hosted for the International Association for Impact Assessment Ireland-UK Branch on *Changing Climates for Environmental Assessment* (Barker and Jones) – with presentations by Handley, Carter and Wesolowski. Presentations were also made to a workshop involving practitioners from the oil and gas industry (Barker and Jones) and to the Institute of Environmental Assessment and Management (Jones).

External professional training by CURE members included:

- UN Industrial Development Organization 'technology foresight' (JR)
- National School of Government 'sustainable development' CPD module (JR)
- IEMA network for training in EIA advanced professional training. (CJ)
- Arup-led website for National Academy for Sustainable Communities: 'Demystifying climate change' (JFH)
- CABE climate change & adaptation website, piloted through core cities (JFH / SG)
- Local Government Association: Climate adaptation programme (JFH)
- CABE space leaders programme (JFH & GC)

Academic visitors & exchanges

- Yoshimi Kawamoto (University of Fukia, Japan)
- Bozena Degorska (Polish Academy of Sciences)

4. Strategic plan

Operational Plan for 2008-9

Continuation of current major funded projects & programmes:

- SUREGEN – (Sustainable Urban Regeneration Workbench: EPSRC) (JR & RK)
- PLUREL – (Peri-urban Land Use Relationships: FP7): (JR, JC, NG)
- OPEN – (One Planet Economy Network: WWF-UK): (JR&JC) (continuation is under discussion)
- SCORCHIO – (Sustainable Cities: Options for Responding to Climate Change Impacts and Outcomes: EPSRC): (G.Levermore, MACE with SL & JFH)
- ERA-NET CRUE (Climate responses in the Urban Environment: DEFRA) (NL & ID)
- Preparation for the forthcoming International Conference on Human Ecology, Manchester June 29 – 3 July 2009: convened by the Commonwealth Human Ecology Council & Society for Human Ecology (ID / JFH / NL)

New major projects starting in July - Dec 2008:

- Bruntwood Initiative (joint with MARC) a research programme focusing on climate adaptation within the broader context of urban sustainability (JFH / PDW / SGuy / JC)
- Participation in Tesco SCI – Supermarket Adaptation to Future Environment (SAFE) (JH / IW / SL)
- Participation in Tesco SCI - Employee engagement in planning for sustainability (JT).
- Welsh Assembly Government – strategic responses to climate change and the visitor economy (SL).

Forthcoming major proposals and bids as of July 2008:

- UK consortium on Green Infrastructure, for the EPSRC Adaptation & Resilience for Climate Change (ARCC): (JFH)
- EU consortium METAFORE: reworking of existing application on institutional applications of material and energy flows in urban systems (JR, to be confirmed).
- EU consortium GRABS: initiative led by TCPA on the role of green & blue infrastructure in the climate adaptation of cities. (JC / RK / JFH / SL)
- Interreg project continuation from ENMAR (JC)
- Interreg 4c: extending the use of GRIP model to METREX members EUCO280/50 (SC)

Research theme outlook

Sustainable City-Region theme: (JR)

This theme will continue with its multi-strand approach to practical and analytic research. Much depends on the response to the One Planet Economy Network research and policy proposals, and its newly emerging sub-field – *institutional ecological economics* - with immediate policy applications to decarbonisation and dematerialization of the UK / EU and urban / regional economies. This fits alongside parallel studies on spatial development, innovation and informational studies, policy evaluation and participation. There are numerous opportunities particularly for EU funding, alongside a backlog of papers for publication, as well as a major new book in the pipeline.

Adaptive Landscapes theme: (JFH)

The EPSRC project on Adaptation Strategies for Climate Change in the Urban Environment (ASSCUE) broke new ground in developing adaptive responses to climate change in the urban environment, and especially the role of green infrastructure in moderating climate change impacts. CURE led this project and played a key role in the wider EPSRC Building Knowledge for Climate Change programme, which was characterized by a high level of stakeholder engagement. Working with Newcastle, UEA and UCL, through the EPSRC project on Sustaining Knowledge for Changing Climate, we (JFH, GS) played a key role in building research capacity and sustaining links with users ahead of the next major EPSRC programme on Adaptation and Resilience to a Changing Climate. CURE in association with MARC, MACE and external partners, await the outcome of expressions of interest to this programme. Meanwhile the research momentum is continuing through the new Bruntwood initiative for Sustainable Cities (with MARC), and the Sustainable Consumption Institute.

'Environmental Assessment and Management' theme (CJ)

In the immediate future, work will build on recent research projects where findings have yielded potential for further work. Thus during 2008-09, proposals will be prepared on evaluating the effectiveness of SEA/SA in the devolved administrations (ESRC), the role of cultural heritage in strategic environmental assessment (ESRC-CASE Award), implementation of the Landscape Convention in the context of Environmental Assessment (DEFRA). The opening of an office within the University precincts by the Transport Research Laboratory offers a range of opportunities to develop areas of mutual research interest; a proposal is currently being developed to explore effectiveness and compliance of SEA for local transport plans(ESRC).

5 year strategy

Sustainable city-region programme (JR)

- Publication of the follow-up to City-Region 2020: “*City-State 21*” (JR). This explores the theme of institutional inter-dependency and capacity for resilience and innovation, for a low-carbon / footprint transformation.
- Continuation of the peri-urbanization / spatial development theme, through PLUREL (2007-2010) and beyond.
- Continuation of the informational governance theme, through SUREGEN (2008-2011) and beyond.
- Continuation of the One Planet Economy theme at regional and national level: comprising several parallel strands: institutions, spatial development, resource flow modelling, innovation / cognitive studies, policy evaluation.

‘Adaptive landscapes’ programme (JFH)

- Collaboration by White Barker & Handley: on a research led book ‘Planning for Environmental Change’.
- Working on integrated planning & management of the environment which combines an understanding of natural process (in river basins coastal cells & urban systems) with a knowledge of policy & implementation frameworks.
- Taking forward work on climate change adaptation, and especially the role of green infrastructure in moderating climate change impacts in cities.

‘Environmental Assessment and Management’ programme (CJ)

The period to 2013 will be key in embedding the work on environmental assessment and management into the wider CURE agenda. Hitherto, research on this theme has taken place within the confines of the EIA Centre and rarely stepped beyond the subject area or involved other personnel. The relocation of environmental assessment work within CURE provides an opportunity to draw linkages with other issues and draw in other research staff. In particular, two areas most relevant for development are connections between EIA, SEA and SA and climate change, and the relationship between the landscape scale and SEA. In addition, work on assessment process and procedures will be maintained together with work on quality of process and outputs. Burgeoning links with the North-West University in Potchefstroom, South Africa will also be developed with joint research proposals for comparative work on methodological approaches at the strategic level as well sharing experiences.

Contribution to SED plan

CURE links to SED Strategic priorities – response to notes from VP visit.

- Research priorities
- Use results of RAE – interdisciplinary urban / climate / water
- Improve SED brand of linking North / South: joint working with GURC
- Improving financial management & planning
- Professional training – history – climate change adaptation
- Maximizing multi-disciplinarity – responding to the cross cutting agendas for environmental change adaptation & sustainable cities.
- Developing staff incentives – a ‘Reward’ account has been set up for this, as below.
- CURE will also promote PGR for external funding for students

5. Budget

Research portfolio income

The current total of research income due to projects on the RMS managed by PIs based at CURE, is £2.88 million:

This is spread over a period of 6 years from 2004-2010, and includes projects which are now closed.

A complete list of projects based at CURE since 2000 is available on the website.

The current level of expenditure includes the following research staff (non HEFCE funded): proportions are shown as averages in the year to 30th June 2008:

- Ravetz – 100%
- Carter – 100%
- Green – 40%
- Richards - (maternity leave)
- Hincks - 60% (based at CUPS)
- Lawson – 75%
- Sherriff – 80%

Inclusive of FEC overheads at average rates, this amounts to a revenue turnover in the region of £400,000 per year.

Anticipated revenue expenditure

The anticipated forward staff expenditure for the 12 months as from 1st July 2008, shows some changes and additions:

- Ravetz – 100%
- Carter – 100%
- Green – 20%
- Richards - TBC
- Hincks - 60% (based at CUPS)
- Lawson – TBC
- Sherriff – 100%
- Carney – 100% TBC

Forward budget

The forward budget for 12 months is now being developed:

- based on the anticipated revenue and expenditure for the next 12 months, of approx 400k per year
- based on the anticipated contribution from staff PRA's to a common centre account.

The main areas of expenditure are currently being detailed:

- Conference – programmed for 2010
- Publication – concept publication for CURE staff to be developed,
- Communication & website – imminent expenditure on publicity both on-line and paper based
- Equipment – see separate computing schedule
- Staff contingency – mainly for rolling over of research staff.
- Staff administration / Centre management: anticipated as 20% FTE.

To manage this there are 3 separate accounts, to be overseen by the CURE Management Committee:

- CURE 'Reward' account – covers staff contingencies and special items.
- CURE Salaries account – covers staff costs for collective projects.
- CURE general account -

6. *Issues for S.E.D. strategy*

Research staff contracts

Continuity for research staff, flexibility in forming new appointments, and financial management as above are essential conditions for effective running of CURE and similar research centres.

Research project management

- Research support team are very supportive, but really need a CURE admin person to interface with.
- Post award support is needed on a continuous basis.

Relations with other centres

- Ongoing collaborations with MARC & MACE
- Closer links are developing with GURC
- Existing collaborations and sharing of staff continue with CUPS.
- There are also strong links with MIOIR

External relations

- Keen to contribute to Faculty – new focus on urban sustainability: CURE is a world leader in this area.

Communications

- Brand identity & web presence – weaknesses
- Need to identify best way to handle external relations which can be time-consuming.

7. Annex 1: publications

Publications and publications-related (draft) headlines for the CURE Annual Report 2008 covering the period 2007- 2008 (to July). In total there are 60 publications, excluding research reports. Taking account of seminar and conference contributions and research reports there are over 100 items listed (n=111). The breakdown is as follows:

- 1 research book
- 32 peer review journal publications (in print, in press or submitted)
- 5 professional/public publications (in print, in press or submitted)
- 14 edited book chapters (in print, in press or submitted)
- 3 practice/teaching publications (in print, in press or submitted)
- 5 conference publications
- 15 conference/seminar contributions
- 27 invited contributions
- 9 research and policy reports

Books (research)

Ravetz J, Roberts P, George C, (2008) *Environment and City: critical perspectives on the urban environment around the world*: Oxford, Routledge / Taylor & Francis (in press).

Academic journal papers (peer reviewed)

Ballas, D., **Kingston, R.**, Stillwell, J. and Jin, J. (2007) Building a spatial microsimulation-based planning support system for local policy making. *Environment and Planning A*, 39(10), 2482 - 2499.

Barker, A with Stockdale, A. (2007) 'Out of the wilderness: achieving Sustainable Development within Scottish national parks', *Journal of Environmental Management*.

Catney, P., Henneberry, J., **Lawson, N.** and Shaw, S. (2008) 'Deliberating Environmental Risk on Contaminated Land: The Importance of Local Context', *Land Contamination and Reclamation*, 16 (2)

Carter, J. White, I. and Richards, J. (2008) Sustainability appraisal and flood risk management, *Environmental Impact Assessment Review*, forthcoming.

Richards, J. **White, I** and **Carter, J.** (2008) Local planning practice and flood risk management in England: is there a collective implementation deficit? *Urban Environment* (2) 11-20.

Carter, J. (2007) Spatial planning and the Water Framework Directive: insights from theory and practice: *The Geographical Journal* 173 (4) 330-342.

Dao Kim Nguyen Thuy Binh, Le T. V. Phuong, Ian Douglas, Nguyen Van De, Julia Mcmorrow, Sarah **Lindley**, Tran Thi Van, Le Huu Thanh, and Nguyen Tho (2008) Local Knowledge and Economic Realities Affecting Soil Erosion in the Rach Rat Catchment, Vietnam *Geographical Research* 46:1:17-26

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Douglas, I., Huggett R.J. and Perkins, C. (eds) (2007) *Companion Encyclopaedia of Geography*, Routledge, London

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Tippet, J (2007) 'Creativity, networks and openness – the potential value of an open source approach to support practitioners in planning for sustainability', (PDF). *AESOP Napoli 2007 - Planning for the risk society*, Naples, July 11 - 14.

Other Conference and Seminar Contributions

Barker and Jones (2007) Co-organiser of International Association for Impact Assessment (UK Branch) *Conference on Future Directions for Environmental Assessment*, University of Manchester, 2007.

Barker, A. and Stockdale, A. (2008) Planning for the Dynamic Landscape: Reconstructing National Parks in the UK, *Planning Research Conference*, Queens University Belfast, March, 2008.

Carter, J (2007) 'Insights into spatial planning and the Water Framework Directive.'- *European Symposium of Spatial Planning Approaches towards River Basin Management* (5/07, Rovaniemi, Finland). Paper presented

Carter, J (2007) *Growth, Conservation and Responsibility: 27th Annual Conference of the International Association of Impact Assessment* (6/07, Seoul, South Korea).

Carter, J - Paper presented 'Sustainability appraisal and flood risk management in England.' *Water: Local Planning and Management* (10/07, Riga, Latvia). Paper presented 'Spatial planning, water and the Water Framework Directive.'

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Jones, C. and Barker, A. (2008) Review of the EIA Process for Oil and Gas Projects, *International Association for Impact Assessment*, Annual Conference, 5-9 May, Perth, Australia.

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Tippet, J (2007) 'Systems and sustainability - the art of creativity in a changing climate'. UK Systems Society 2007 *International Conference - Joined up thinking for a joined up world*, St. Annes, Oxford, Sept. 3 - 4.

White, I (2008) Joint European and American Planning Schools Conference 'Aspirations into reality: implementing national aims within local planning', July, Chicago, USA (Forthcoming).

White, I (2008) Regional Studies Association, 'Planning Policy and Flooding: the translation of national guidance within local planning', May, Prague, Czech Republic.

White, I (2008) Royal Town Planning Institute, 'The effectiveness of local planning in managing flood risk', February, Chester.

White, I (2007) AquaTerra: World Forum on Delta and Coastal Development 'Sustainable Drainage and Conveyance Systems (SUDACS)', February, Amsterdam, Netherlands.

White, I (2007) The European Symposium on Flood Risk Management Research (EFRM) poster abstract: 'Sustainable Drainage and Conveyance Systems (SUDACS)', February, Dresden, Germany.

White, I (2007) The 7th International Conference on Urban Planning and Environment (UPE 7) 'Planning, Flooding and World Class Cities', January, Bangkok, Thailand. **NOTE:** This Paper won a Merit Award for Distinguished Presentation.

Other Conference and Seminar Contributions (invited)

Barker, A Member of Steering Group for NERC-ESRC Seminar Series on Marine Ecosystem Management, Series ongoing with events held to date in Liverpool, Belfast and Cardiff (invited and expenses paid).

Barker, A, and Kazmierczak, A. (2008) Greening the Urban Environment: Green Infrastructure Planning and the Liveable City, *Regional Studies Association Liveable Cities Conference*, University College London, March, 2008. (invited and expenses paid).

Barker, A. (2007) A Social Science Critique of Ecosystem Planning in the Marine Environment, *NERC-ESRC Seminar Series on Marine Ecosystem Management*, Liverpool, November, 2007 (invited and expenses paid).

Barker, A. and Jones, (2008) Review of the EIA Process in Oil and Gas Projects, *UK Oil and Gas Upstream Environmental Seminar*, Aberdeen, February, 2008 (invited and expenses paid).

- Barker, A. and Kingston, R.** (2008) Stakeholder Engagement in Coastal Flood Risk Management, RTPI *North West Planning Conference*, Chester, February, 2008 (invited and expenses paid).
- Douglas, I** (2007) Keynote Lecture to COST Flooding Symposium, Amsterdam 8 February 2007 (invited, expenses paid)
- Douglas, I** (2007) "Psychological and mental health benefits from nature and urban greenspace" Paper to the "Statins and Greenspace" conference organised by the UK-MAB Urban Forum at UCL, London 27 March 2007 (invited, expenses paid)
- Douglas, I** (2007) "Problems in river sediment management" Talk to Living Sediments Workshop, Maastricht 10 May 2007 (invited, expenses paid)
- Douglas, I** (2007) "Planning and managing cities to avoid environmental injustice" Paper to symposium 46 EcoSummit 07, Beijing, China 26 May 2007 (invited, expenses paid)
- Douglas, I** (2007) "Geography and environmental justice: making ecologically sound, environmentally fair cities" Seminar to Geography Programme, Universiti Kebangsaan Malaysia 22 June 2007 (invited, local expenses paid)
- Douglas, I** (2007) Keynote address to S.E.Asia Regional Conference of the International Association of Geomorphologists 26 June 2007 (invited, expenses paid),
- Douglas, I** (2007) Lecture "Where not to build a house in Greater Manchester" *Manchester Branch, Geographical Association* (invited) 8 February 2007
- Douglas, I** (2007) "Biofuels: a global view" paper in the *Workshop on Future Energy and Water Resources for an expanding Commonwealth at the Commonwealth People's Forum*, Kampala, Uganda (ID organised the Workshop) 20 November 2007
- Douglas, I** (2007) Lecture to Market Drayton U3A, Shropshire (*dissemination of the NERC LOCAR Programme results*) 20 March 2008 (invited, expenses paid)
- Jones, C.** (2008) *Congress on the Protection and Development of the Dutch Archaeological and Historical Landscape: The European Dimension*, 20-23 May, Lunteren, The Netherlands. Invited speaker (all expenses paid)
- Jones, C.** (2008) 'Effectiveness in Environmental Assessment-some international perspectives' *Environmental Assessment Forum*, Institute for Environmental Assessment & Management, Birmingham. Plenary speaker (expenses paid), 24 April.
- Jones, C.** (2007) Sustainability assessment-experiences and challenges', *Swedish Impact Assessment Conference*, Uppsala, 24 April. (Fee and expenses paid)
- Lindley, S** (2008) Science based approach to urban adaptation to climate change *EU ESPACE meeting "Adapting to climate change: a spatial challenge!* Invitation from the Dutch Ministry of Environment (expenses paid).
- Lindley** and McMorrow (2007) Maps as tools for moorland wildfire risk management – smoke and mirrors? *Proceedings of the ISEES*. Prague 2007.
- McMorrow, J.M. Ayles, J., **Lindley, S. Cavan, G.**, Albertson, K. (2006) Wildfire, visitors and climate change: patterns, policies and prevention., Moors for the Future Symposium on Moorland Ecosystem Services, Castleton 9-10 Nov 2006 (Invited)
- McMorrow, J., **Cavan, G.**, Ayles, J., Albertson, K. and **Handley, J.** (2005) Fire and climate change in the Peak District'. MFF Symposium, Castleton 20-21 Sep 2005. (Invited)
- Kingston, R.** (2007) Who are the public and what are they participating in?, World Universities *Public Participation GIS Seminar Series*. (expenses paid)

Kingston, R. (2007) Improving public participation through e-planning: a missed opportunity?, *Bartlett School of Planning Seminar Series*, University College London (expenses paid)

Kingston, R. (2008) Recent Developments in PPGIS: have we made any progress? *Department of Geography, University of Leicester seminar series*. (expenses paid)

Ravetz, J ConAccount 2008: (*International conference on urban metabolism*, Vienna, 2008): (JR) member of the Scientific Panel.

Ravetz, J *UN World Habitat Day*, session chair & keynote speaker (Naples, 2006 & 2008)

Ravetz, J *Policy Studies Institute: seminar on new methodologies for governance and sustainability*. (London, May 2008).

Ravetz, J *Welsh Assembly Government: launch of One Planet Wales documents*: (Cardiff, November 2007).

Ravetz, J United Nations Industrial Development Organization: *Technology Foresight Training Course Leader*. (Prague, 2007).

Other publications: research reports and policy input

Douglas, I., **Lawson, N.** Garvin, S. and **White, I.** (2008) Risk Assessment and Risk Management for Small Urban Catchments, Defra Research project FD2603 - Era-Net Crue, University of Manchester, Manchester.

ENMaR (2007) Water: Local Planning and Management – Practical Examples from England, Germany, Latvia, Spain and Sweden, Kommunale Umwelt-AktioN U.A.N, Hannover, Germany. (This is the final report produced by project partners of an INTERREG IIIC project).

Handley, J. and Carter, J. (2007) Adaptation strategies for climate change in the urban environment: Final report to the National Steering Group, CURE, Manchester.

Jones, C. and Barker, A. (2007) Quality Review of Environmental Statements for Offshore Petroleum Production and Pipeline Developments Department for Business, Enterprise and Regulatory Reform, Aberdeen
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Lawson, N with Garvin, S (2008) Quality in Land Remediation: Indicators and Protocols for Brownfield Land CL:AIRE Subr:im bulletin SUB 9 (February 2008).

Lawson, N with Simon Talbot, Colin Smith and Xu Hao (2008) Acid Tar Lagoons. CL:AIRE Subr:im bulletin SUB 7(January 2008).

McMorrow, J.M. and **Lindley, S.** (2007) *Modelling the spatial risk of moorland wildfires*. Report for Moors for the Future.

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White, I., Richards, J. and Carter, J. (2007) Planning Policy and Flood Risk: Key Issues Linked to the Effectiveness of Strategic and Local Policy, Final Report for Flood Risk Management Research Consortium, February, University of Manchester, Manchester.

8. Annex 2: current major projects

Projects awarded 1st July 2007 – 30th June 2008

Person Surname	Person Forename	Role	Funder Name	Project Title	Actual Start Date	Actual End Date	Percentage Credit SUM	Awarded Revenue Value SUM	Funding Source
Jones	Carys	PI	Natural England	Research to support the implementation of the European landscape convention in England	01-Nov-2007	31-Mar-2008	100.00	7,700.00	UK Public Corporations
Kingston	Richard	Co-I	EPSRC	Integrated Decision Support System for Sustainable Urban Regeneration (SUREgen) - a digital workbench for regeneration agents and their stakeholders	01-Dec-2007	30-Nov-2011	.00	NULL	Research Councils
Kingston	Richard	Co-I	J Rowntree Foundation	Housing and Neighbourhood Monitor	01-Apr-2008	31-Mar-2011	20.00	49,038.00	UK Based Charities
Lindley	Sarah	Co-I	N.E.R.C.	Identification and identification of ultrafine particle affinity zones in urban neighbourhoods/ a proof of concept proposal.	01-Jun-2007	30-Nov-2008	33.00	25,842.51	Research Councils
Ravetz	Joe	PI	EPSRC	Integrated Decision Support System for Sustainable Urban Regeneration (SUREgen) - a digital workbench for regeneration agents and their stakeholders	01-Dec-2007	30-Nov-2011	100.00	329,843.53	Research Councils
Ravetz	Joe	PI	Department of Trade & Industry	Sustainable energy management and the built environment (SEMBE)	30-Apr-2007	30-Nov-2007	100.00	500.00	UK Central Government
Ravetz	Joe	PI	Sami Consulting	Application of futures research to strategic planning	01-Dec-2007	31-May-2009	100.00	39,031.00	UK Industry/ Commerce

Applications made 1st July 2007 – 30th June 2008

Person Surname	Person Forename	Role	Funder Name	Project Title	Submission Date	Credit Split	Current Status	Bid Revenue Applied For Value SUM	Funding Source
Kingston	Richard	CO1	J Rowntree Foundation	Housing and Neighbourhood Monitor	03-Oct-2007	20.00	AWARD	49,038.00	UK Based Charities
Lindley	Sarah	CO1	Dept of Health	Cardiorespiratory Morbidity and Long Term Exposure to Air Pollution: Improved Quantification of Risks and Susceptibility Based on Refined Exposure Estimates.	22-Feb-2008	17.00	REJECT	79,904.59	UK Central Government
White	Iain	PI	DEFRA	Land use planning - Quality & influence of strategic flood risk assessment	15-Oct-2007	100.00	SUBMIT	7,500.00	UK Central Government
Ravetz	Joe	PI	Sami Consulting	Application of futures research to strategic planning	17-Mar-2008	100.00	AWARD	39,031.00	UK Industry/ Commerce
Barker	Adam	PI	North West Coastal Group	NW Coastal PPGIS	12-Oct-2007	50.00	SUBMIT	15,000.00	UK Local Authorities
Kingston	Richard	CO-1	North West Coastal Group	NW Coastal PPGIS	12-Oct-2007	50.00	SUBMIT	15,000.00	UK Local Authorities
Jones	Carys	PI	Natural England	Research to support the implementation of the European landscape convention in England	01-Sep-2007	100.00	AWARD	7,700.00	UK Public Corporations