

Imperial College
London

Climate Change Adaptation:

Drivers, barriers and strategy

18 - 19 March 2010



A two day programme to provide in-depth and practical knowledge of policy and practice relating to climate change adaptation, how to understand risks and how to plan an effective strategic response

Presented by:
Imperial College London
and
Collingwood Environmental
Planning



Recognising the urgent need to understand and respond to the threats and opportunities posed by a changing climate, Imperial College London and Collingwood Environmental Planning (CEP) are pleased to present a two day training programme to provide in-depth and practical knowledge of policy and practice relating to climate change adaptation, how to understand risks and plan an effective strategic response.

Background

Understanding of the way the climate is changing and the potential impacts on individuals and society is developing fast. In June 2009, the UK Climate Impacts Programme (UKCIP) published the latest UK climate projections (UKCP09), which are more detailed than previous projections, provide regional level detail, and include probabilistic projections, which will help assess risks and support decision making. These projections, like other recent information, suggest that the impacts could be even more severe than previously predicted. The failure of governments to reach agreement at Copenhagen in December to reduce CO2 emissions makes it yet more urgent for policy makers, planners and managers to understand and assess potential climate impacts in decision making.

Climate change is a major challenge which needs to be addressed at all levels and sectors of society. In the public sector there is a need to take account of potential impacts on people and the physical environment in planning, delivering and maintaining the services on which economic activity and social interactions rely. For the private sector, UKCIP predicts that climate change impacts will affect almost every aspect of business, but that forward planning can minimise the threats and maximise the opportunities created by a changing climate.

A number of key policy drivers are adding to the momentum for action on climate change adaptation. At the EU level, a European Commission White Paper on climate change adaptation, adopted in April 2009, presents a framework for adaptation measures and policies to reduce the European Union's vulnerability to the impacts of climate change.

In the UK, the Climate Change Act became law in November 2008. The Act requires the Government to prepare a programme of adaptation measures and creates new powers to direct public bodies to address climate risks and to produce an action plan. The Government has also included a climate change adaptation indicator (NI188) within the new local government performance framework, requiring local authorities to undertake a climate change risk assessment and develop an action plan to address those risks.



The Aim of the Programme

The aim of the course is to:

- Provide a sound understanding of climate change risks and their relevance to participants' organisations
- Describe how to identify and overcome potential barriers to adaptive action
- Set out how to use strategic planning to develop adaptive capacity.

Who Should Attend?

The course is aimed at all those with an interest in understanding how to develop specific climate change adaptation strategies/action plans or how to effectively incorporate climate change adaptation into existing planning processes. The programme will be of relevance to both public and private sector organisations and will be applicable to a UK and wider European audience. Particularly, it may interest those involved in spatial planning, environmental and sustainability policy, emergency planning and corporate strategy within:

- regional and local government
- central government departments and their agencies
- European institutions
- NGOs and research organisations, including climate change partnerships
- Businesses, including service providers that need to meet reporting requirements under the Climate Change Act.

Teaching approach:

The course will take place over two consecutive days with a natural progression between the days. Day 1 will focus primarily on understanding the impacts and risks associated with climate change, policy drivers and barriers to adaptation. Day 2 will focus on practical action to overcome barriers and plan strategically for adaptation. The course aims to provide participants with a detailed understanding of the issues so that they will feel confident in assessing their climate vulnerability and commissioning or developing strategies or actions to increase their adaptive capacity.

The course will make use of interactive teaching methods such as role plays, visual aids and small, facilitator-led, discussion groups. Case studies will be used throughout the course to draw on practical examples and enhance discussion of both good, and bad, practice. The course will also draw on UKCP09 projections wherever appropriate.

The maximum number of participants on the course will be 20, and there will be at least two trainers each day. The course will also use one or more specialist guest speakers where appropriate.

Participants will receive a workbook to follow during the course, and all supporting and reference material will be provided in both hard copy and CD format.

The course will run from 9.00am to 5.00pm each day, with each day broadly taking the following format:

- Introduction / review of previous day (day 2 only)
- Lecture and plenary discussion
- Group work and structured activities
- Round up and summary discussion of key issues, setting out tasks for the following day (day 1 only)
- There will be opportunities for informal discussion / Q&A with presenters throughout the course

COURSE SCHEDULE

Day 1 Introduction to the course, current evidence, identifying appropriate action and understanding the risks

Led by: Paula Orr, Ric Eales, Owen White.

The first day will begin by introducing participants to the course and summarising very briefly the context of current evidence on climate change impacts and adaptation responses. This will draw in particular on the projections included in UKCP09. Participants will be able to discuss and identify impacts and responses relevant to their organisation and their experience in adaptation planning.

The morning sessions will explore with participants – using practical techniques – the capacity of individuals and organisations that would be required to achieve successful climate change adaptation.

Day 1 will introduce the principles of risk assessment, which is a key tool in prioritising adaptation actions and developing effective strategy. Risk assessment case studies will enable participants to understand how to identify and prioritise issues, to use scenarios to explore possible futures and consider alternative routes to adaptation.

Break-out sessions will enable participants to consider climate change impacts in the context of their organisation, how to assess and prioritise risks associated with these impacts and how to identify what responses might be appropriate. This will provide much of the context for the remainder of the training. In this way the course will maintain throughout a grounding in the practical needs and interests of participants and outcomes that can be linked directly to these as much as possible.

Key elements of Day 1:

- Understanding climate change impacts in an organisational / spatial context
- Current policy, legislation and practice relating to climate change adaptation
- Risk assessment and identifying priorities
- Appropriate responses to impacts and risks

Day 2 Developing a practical response: identifying barriers to and options for strategy and action

Led by: Paula Orr, Ric Eales/William Sheate, Owen White.

The second day will focus on the practical process of, and use of tools in, developing an adaptation strategy, the identification of key barriers to adaptation and what actions can be taken to overcome them. The day will focus on realistic and achievable adaptive action, and will be strongly based on the presentation and understanding of lessons learned from existing examples of adaptation strategy.

A key element of the day will be understanding and assessing organisations' adaptive capacity, including effective leadership on adaptation, partnership working to increase resilience and the development of knowledge and capabilities, which can be as, if not more important to successful adaptation as a detailed strategic plan and framework of actions.

The second day will also explore the legal and policy drivers for adaptation and how strategy relates to and can build on existing processes.

The training will conclude with a review of how to implement climate change adaptation within time and resource constraints, and there will be an opportunity for participants to draw on their experience from the training to develop a practical plan of action to take forward the lessons learned.

Key elements of Day 2:

- Adaptation process, planning and action options
- Barriers and success factors
- Practical planning for adaptation
- Sources of information and resources

GENERAL INFORMATION

Registration

To book a place on the course, please go to www.imperial.ac.uk/cpd/adaptation and click on an 'Online booking' icon.

If you have any queries regarding your booking, please contact us on:

PHONE: +44 (0)20 7594 6884

FAX: +44 (0)20 7594 6883

EMAIL: cpd@imperial.ac.uk

Places on the course are limited, **EARLY BOOKING IS ADVISED.**

Joining Instructions

Detailed joining instructions, including a map, will be sent to all participants 10 - 14 days prior to the commencement of the course. While every attempt will be made to ensure the material arrives in time, it is the participants' responsibility to contact the School of Professional Development if no information has been received.

Fees

The fee is £495 if booked before 19 February 2010 and £585 if booked after 18 February 2010. The fee covers tuition, course notes, lunches, light refreshments, but does not cover accommodation.

Venue

The course will take place at Imperial College London, Exhibition Road, London SW7 2AZ. The College is located in a pleasant part of London, close to Hyde Park, the Royal Albert Hall, Harrods and world-renowned museums.

Accommodation

Single bedroom accommodation is available in local hotels within walking distance of the College. Minimum cost of a room with shower/bath will be in the region of £95 per night. Limited number of basic student accommodation is also available. This is additional to the course fee and participants are responsible for payment of their own accommodation bills. For further details and reservations, please contact:

Accommodation Link

Imperial College London
Level 3 Sherfield Building
London SW7 2AZ

Tel: +44 (0)20 7594 9507/11

Fax: +44 (0)20 7594 9504

Web: www.imperial.ac.uk/conferences

Cancellation and Refunds

A 20% administration fee will be levied for cancellations made up to two weeks prior to the start of the module. Cancellations thereafter will be liable to the loss of the full fee. Notice of cancellation must be given in writing by letter or fax and action will be taken to recover, from the delegates or their employers, that proportion of the fee owing at the time of cancellation.

Imperial College London reserves the right to cancel an advertised course at short notice. It will endeavour to provide participants with as much notice as possible, but will not accept liability for costs incurred by participants or their organisations for the cancellation of travel arrangements and/or accommodation reservations as a result of the course being cancelled or postponed. If a course is cancelled, fees will be refunded in full. Imperial College London also reserves the right to postpone or make such alterations to the content and presenters of a course as may be necessary.

Queries

Queries regarding registration and other administrative matters should be directed to:

Marta Kowalewska,

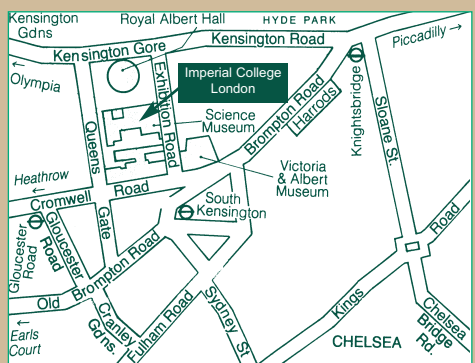
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Information on other professional development short courses is available at the web site: **www.imperial.ac.uk/cpd**.

PRESENTERS

Paula Orr (BA MSc)

Paula is a social scientist who has worked on sustainability and participation in the UK and Chile since 1992. At CEP she has worked on climate change adaptation, the promotion and evaluation of behaviour change initiatives, social vulnerability and flooding and community impacts of coastal erosion. She is currently leading the stakeholder engagement strategy for the UK's First Climate Change Risk Assessment, which includes working with stakeholders from the devolved administrations and English regions as well as organising sector groups around eleven key sectors of activity.

Between 2007 – 08 Paula managed an INTERREG funded project for the South East of England Regional Assembly (SEERA) on options for climate change adaptation through the planning system as part of ESPACE (European Spatial Planning: Adapting to Climate Events). This work focused on the regional and local level and how Local Authorities can promote adaptation through the local planning system and through other mechanisms.

Paula worked as an Advisor on social policy and social science at the Environment Agency from 2000 to 2007. She managed the development of strategy for public participation in River Basin Management under the Water Framework Directive (2002 – 2005) and provided guidance and advice for river basin managers on setting up River Basin District Liaison Panels and developing consultation programmes (2005 – 2006). Paula also provided advice on social issues associated with environmental policy and helped to develop tools and processes for ensuring that social issues are taken into account in policy making.

Ric Eales (BSc MSc)

Ric Eales is the founder and Principal of Collingwood Environmental Planning (CEP) and has over 20 years' experience of environmental, sustainability and planning consultancy. His particular areas of interest lie in environmental and sustainability assessment and other decision support tools, environmental and spatial planning and the broader consideration of sustainability issues within legislation, policy and practice. He has undertaken pioneering work on climate change adaptation and led the teams that developed the Climate Change Mitigation and Adaptation Implementation Plan for SEERA and undertook the research on barriers to climate change adaptation both as part of ESPACE. Ric is also currently managing the Sustainability Appraisals of the Mayor of London's Climate Change Adaptation Strategy and Water Strategy.

Ric regularly advises the Environment Agency and other public bodies, on climate change, land use and planning issues, sustainable construction, and flood risk management. For example, he has prepared guidance on water related climate change adaptation for the Environment Agency and SEERA. He advised DEFRA on measures and mechanisms to encourage uptake of sustainable construction and the Environment Agency on land use change in the Thames Gateway as part of their Thames Estuary 2100 flood risk management project. He managed and was the main contributor on a commission for the European Environment Agency (EEA) to produce Environmental Signals 2002, a state of the environment report for Europe and has recently undertaken research for the EEA on developing an ex-post environmental evaluation framework for European Cohesion Policy. He was recently the environmental expert for the UK as part of the European Commission Directorate-General for Regional Policy's ex-post evaluation focusing on the environment and climate change of the European Regional Development Fund 2000-2006.

He has considerable experience of researching and undertaking environmental and sustainability assessments, including strategic environmental assessment (SEA), sustainability appraisal (SA) and environmental impact assessment (EIA), for national and regional government and statutory agencies. Commissions include project managing and drafting the Department for Communities and Local Government's (DCLG) guidance on sustainability appraisal (SA) for Regional Spatial Strategies (RSSs) and Local Development Documents (LDDs), and the SEAs of several River Basin Management Plans for the Environment Agency. He has recently undertaken a critique for the RSPB/WWF of the Government's Appraisals of Sustainability of the various National Policy Statements covering energy and ports.

He is an experienced trainer and has developed and delivered several training courses at Imperial College and elsewhere. He has also been a guest lecturer on undergraduate and postgraduate environmental courses.

PRESENTERS

Owen White (BSc MA)

Owen White is an environmental economist and Senior Consultant at CEP. With 10 years experience working as an environmental researcher, economist and consultant he has gained particular expertise in sustainability policy, strategy and appraisal.

Owen has significant experience in climate change, and climate change adaptation in particular, both understanding and interpreting impacts, and developing policy and strategic responses to the challenges it poses. Owen is currently working on the UK Climate Change Risk Assessment, which aims to identify and prioritise the key climate change risks for UK Administrations, geographically and by sector. He has recently completed work on an ESPACE project to identify and prioritise barriers to climate change adaptation and propose practical actions to overcome these at the local and regional level in the South East of England. He also co-authored the South East Climate Change Adaptation and Mitigation Implementation Plan. Other climate change related work includes a Sustainability Appraisal of the Mayor of London's Climate Change Adaptation Strategy.

Owen's broader environment and sustainability work has included: research into policy and action of local government authorities in Wales to promote environmental outcomes, including the development of environmental policy and strategy baseline and case studies to identify best practice and inform improved future strategic interventions; research and drafting input to reporting on future related studies and assessments in the EU in relation to the environment and sustainability; and, research into opportunities and risks for British universities from the sustainable development agenda.

William Sheate (BSc MSc DIC)

William Sheate is an Associate at CEP and part-time Reader in Environmental Assessment at Imperial College (London). Originally an ecologist, Bill has worked, lectured and published widely on environmental assessment and policy for some 25 years. He has worked as a practicing ecologist, in consultancy, academia and in the voluntary sector. Most of his professional career has been spent working in interdisciplinarity. Bills' experience lies in the development and application of environmental policy and legislation (especially EIA/SEA/SA) in the European Union, assessment procedures, methodologies, and public and NGO participation. He has been an expert advisor to the EC, the European Environment Agency, the UK, Irish and Uruguay governments, CPRE, the National Trust, RSPB and WWF; was a board member of Transport 2000 and a long-standing member of the Environment Agency (and formerly NRA) Thames Regional Committees; and has been involved in various committees of the International Association for Impact Assessment (IAIA). He has managed major studies for the European Commission DG Environment on SEA and Integration of the Environment into Strategic Decision-Making (2000/01) and on the relationship between the EIA and SEA Directives (2004/5).

Recent activities include a number of major projects for the European Environment Agency on scenarios and long-term futures studies; SEA/sustainability appraisal for the Mayor of London's Water Strategy and Climate Change Adaptation Strategy; SEA of River Basin Management Plans for the Environment Agency of England and Wales; and he was principal investigator for a Defra case study on ecosystem services and green infrastructure in the Thames Gateway. He has recently undertaken a critique for the RSPB/WWF of the Government's Appraisals of Sustainability of the various National Policy Statements covering energy and ports and is a member of the working group and co-author on the 'Urban' chapter of the UK National Ecosystem Assessment (2009-10).

Bill has many years experience of teaching and training at advanced levels, and retains a part-time Readership in Environmental Assessment in the Centre for Environmental Policy, Imperial College London, where for the last 12 years he has been the Director of the highly interdisciplinary Core Course of the internationally renowned MSc in Environmental Technology, covering subjects as diverse as pollution control, risk assessment and ecology to environmental policy, economics and law. He is also a member of the Academic Panel of Francis Taylor Building barristers' chambers in London and an Honorary Senior Fellow in the School of Environment and Development at the University of Manchester.