



Practical workshops

Understanding rainfall run-off (c. 45 mins)

Using a rainfall catchment simulator explore the impacts of different rainfall intensities on a variety of surfaces from bare earth (porous) to concrete (non-porous) and measure the associated runoff.

Understanding past atmospheric pollution (c. 45 mins)

Measuring pollutants in the peat deposits of Holcroft Moss (near Manchester) to infer changing atmospheric pollution through the Industrial Revolution.

Understanding population dynamics (c. 45 mins)

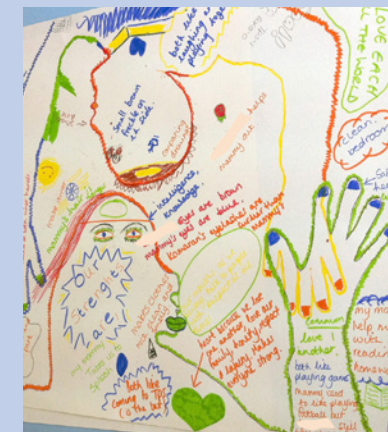
Using population projection software, explore how demographic futures are influenced by the interaction of forecast trends in fertility, mortality, and migration; and how these futures vary geographically.

Understanding GIS (c. 45 mins)

Using GIS software, an exploration of crime patterns in Merseyside is used to introduce basic GIS concepts and to provide an applied example of GIS 'in use'.



Department of Geography & Planning School Programme 2017-18



This programme details the range of curriculum enrichment opportunities we are offering next academic year. As well as talks from members of staff, this includes the increasingly popular option of bringing pupils on campus to participate in a hands-on practical workshop. We are also happy to staff a 'Geography and Planning stall' at a school careers event or similar. Early booking is recommended.

Commonly requested formats include:

Guest lecture – a talk on one topic selected from the list overleaf

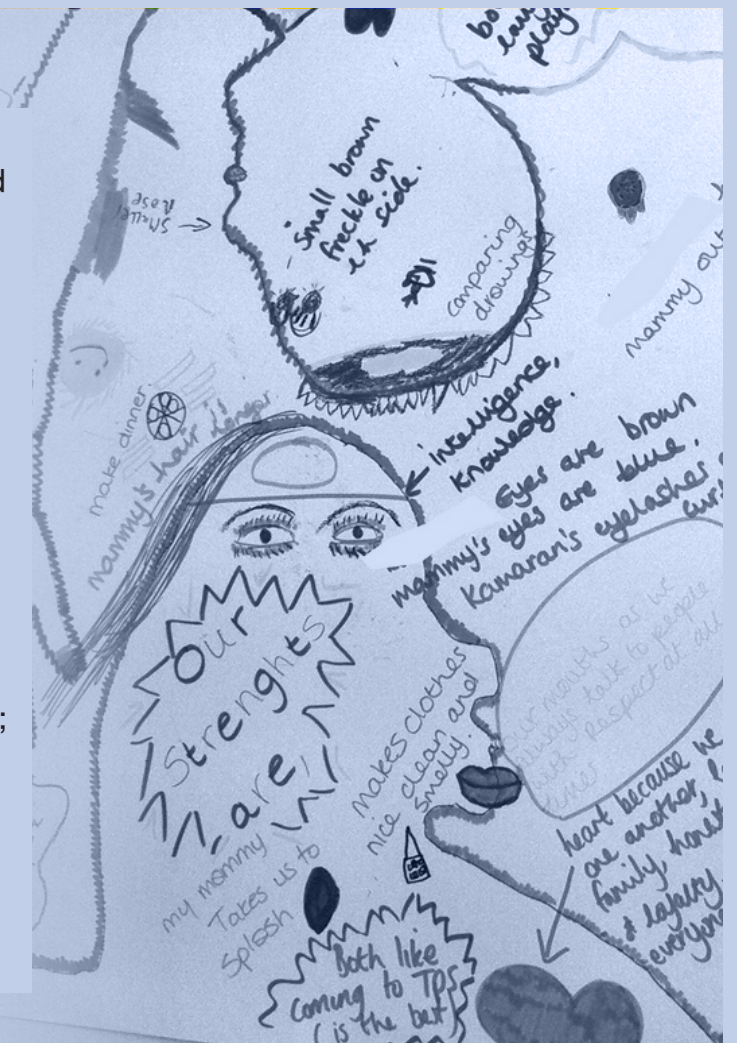
Double guest lecture – e.g. a talk one 'human' and one 'physical' topic

Double practical workshop – one 'human' and one 'physical' topic (see back page)

Any of the above plus one of our **'Careers'** talks (see back page).

For further details, or to request a talk or practical workshop or any other kind of curriculum or careers support, please contact **Dr John Boyle** (jfb@liverpool.ac.uk; Tel: 0151 794 2875), including the following information:

- Title of talk(s) / practical workshop(s)
- Duration required (mins)
- Possible dates and times



Geography at University

Geography graduates have one of the highest employment rates of graduates from any degree subject. This talk, by a member of academic staff, reviews the content and teaching methods employed by a typical geography degree, including field work, transferable skills and the opportunities offered to explore major global issues in more depth. Attention is then turned to the nuts-and-bolts of gaining admission to a geography degree course, including: entry requirements; the application process; the role of personal statements; variations between institutions; single and joint honours courses.

Planning at University

Planning degrees are strongly linked to the world of work, with many offering students the chance to graduate as professionally accredited Chartered Planners. By the end of a degree within planning, students will have developed both the theoretical and practical skills necessary to become an agent for change on the global stage. This talk first explains what planning is, as it may not be a subject students are familiar with. It then reviews what students can expect to do if they study planning, including the links with practice and real-world examples which are part of all planning degrees, before discussing the details of entry requirements, application processes and post graduation employment opportunities.

Big Data as a new lens to study cities

Dr Dani Arribas-Bel

The way we interact with ourselves and with our cities has radically changed thanks to technological advances such as smartphones, GPS, and the internet. This is creating a trove of data that can be used to much better understand human behaviour. This talk will present some of those changes as well as some of the ways in which geographers are using new forms of data to understand cities.



Dr Kathy Burrell

Polish Migration to the UK

With Polish now the second most widely spoken language within the UK, this talk offers a case-study of Polish migration to the UK after EU enlargement in 2004, explaining the background to, and causes of, this movement. The talk considers key demographic and settlement trends while also exploring the general experience of Polish migrants in the UK.



Understanding Multicultural UK

This talk presents an historical geography of multiculturalism in the UK, explaining how and why the UK has become such an ethnically diverse society. Key topics will include immigration policies, different migration and refugee movements and the historical settlement and reception of new migrants.

'How and why has the UK become more ethnically diverse?'

Gemma Catney

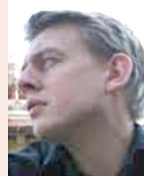
An exploration of the mechanisms behind the UK's growing ethnic diversity, its changing geographical patterns, and the associated socio-political debates around themes of integration and ethnic inequalities.'



Dr Andy Davies

India: Economic development and Social Costs

An overview of India's economic development since the 1980s and its integration into the global economy. Also discusses the social effects of this development and encourages students to assess whether economic development has benefitted the country as a whole.



Political Conflicts in Globalised India

A series of case studies examining the ways in which globalisation has affected communities in India, including the responses of ordinary people to these challenges, with a focus on rural/urban issues.

Challenging Assumptions: Questioning the 'obesity epidemic'

Dr Bethan Evans

An exploration of ideas about the 'obesity epidemic', cutting across sociology, citizenship, psychology and geography curricula to ask questions about how the body, health and illness are social and cultural constructs.



Social deprivation in the UK

Dr Chris Lloyd

The geography of the social polarisation in the UK. Introduces concepts such as deprivation and poverty, using examples from Britain to illustrate the role of geographical change.



Dr Peter North

Avoiding dangerous climate change: how can we live well, and save the planet?

We know we need to emit fewer greenhouse gasses in order to avoid dangerous climate change. How can we do this, and live well, with peace and justice? Is 'growth', more stuff, the answer to meeting human satisfaction?



Liverpool from crisis to capital of culture and beyond

An overview of the different approaches to the regeneration of English Cities since the 1960s through a case study of Liverpool as it builds on the legacy of its year as Capital of Culture to become a sustainable, low carbon 21st century city.

Dr Mark Riley

'Feed the world' – exploring the geographies of food production

An exploration of the geographical variation in food supply and demand and the different approaches taken in respective countries to managing food supply/demand issues.



'We are what we eat' – the changing geographies of consumption

A review of the changing demand(s) for food (and particular food types) and the social, cultural and economic factors underlying these patterns.

Dr Olivier Sykes

A Brief History of UK Town Planning, Regional policy and Urban Regeneration

Since the 19th. century Britain has been a highly urbanised state with diverse patterns of regional development. This talk traces the evolution of public action to manage urban and regional growth and foster regeneration of areas which have faced decline.



The benefits of past EU membership and the consequences of leaving the EU for Britain's cities, regions and nations

When the UK joined the European Economic Community in the 1970s it faced significant regional and urban problems. The development of European action to address such issues was an early example of UK influence on the direction of the 'European Project'. Throughout the following decades EU policies played a crucial role in addressing issues facing British cities and regions. This talk considers this experience and the potential consequences of leaving the EU for the UK's cities, regions and nations.

Dr Paul Williamson

HIV/AIDS in the 21st Century

An overview of the current global distribution of HIV/ AIDS, including current regional trends and prospects, impacts on health and the WHO/ UNAIDS strategy for combating the disease.



The Demographic Transition: myth or reality?

A critical appraisal of the Demographic Transition Model, including its applicability to countries in different stages of development and the validity of the newly emergent 'fifth stage'.

Global carbon cycles: field work possibilities

Dr John Boyle

In a world with rapidly changing climate it is important that we have a clear understanding of the global carbon cycle. While many excellent texts and diagrams exist to describe and explain the global picture, hands on fieldwork and simple calculations help bring the subject down to earth, giving students a valuable personal perspective. This talk describes some field exercises, and shows how to place the results in a global context.



Climate change: what do we really know?

Prof. Richard Bradshaw

A critical review of what we do (and don't) know about climate change and the drivers of climate change.



Dr Richard Chiverrell

The legacy of glaciation in the British and Irish Isles

An overview of the landforms, sediments and geomorphic processes associated with glacial environments, using illustrative examples to evidence how past glaciations of Britain and Ireland have shaped their current landscapes.



Soil erosion on hillslopes

Dr James Cooper

An overview of the processes by which soil is detached and transported by rainfall and overland flow on hillslopes, including illustrative case study examples of the impacts of soil erosion on land contamination and flooding.



Round the Bend: Dynamics and Management of Meandering Rivers

Prof. Janet Hooke

Using case studies, discusses the processes and mechanisms of channel changes and meander evolution, including the impacts of flood events, and considers strategies for the management of erosion and channel movement, such as 'working with nature'.



Ice Age Earth

Prof. Doug Mair

Ice sheets and glaciers have repeatedly grown and decayed throughout our planet's history. Currently they cover 10 % of the land surface and hold 97% of our freshwater, so we're still living in an "Ice Age". In this talk Prof Mair draws on over 20 years' field work experience in some of the most remote and coldest places on Earth to explain process controlling ice sheet growth, movement and decay, and explores how they react to and control Earth's changing climate.



Dr Neil Macdonald

Extremes: floods and droughts

Sensationalised media coverage suggests that severe flooding and droughts are on the increase due to climate change, but we are surprisingly vague on how common extreme floods and droughts were in the past. With relatively few river flow records exceeding 50 years in length, and since extreme events are by their very nature rare, how can we tell if they are becoming more frequent? This talk looks at the risks present today, and explores what past information can also tell us of current flood and drought risk.



Environmental History

This talk explores how historical records can be used to reconstruct past environments and climate. It examines a series of extreme climatic events from the perspective of the societies and people of that time, but also considers what these past events can tell us for the future.

Playing with mud: or how to reconstruct our past landscapes

Dr Fabienne Marret-Davies

An overview of the techniques and skills that we use on land and at sea to study the past environment, to understand climate change and to infer the impact of human activities on our environment.



Governing global commons: how do we look after world oceans?

Dr Kim Peters

Oceans cover two-thirds, or approximately seventy two percent of our planet. They are the dominant feature of the world we live in. However, they are not just important in terms of size. Oceans are vital to the environment, to society, to culture, and to the economy. They also matter a great deal politically as well. In short, they are essential to human life in many ways, so their management is vital. This talk focuses on how we govern this global commons and the challenges and opportunities for oceans management in the 21st century.



Prof. Andy Plater

Hurricanes and Storm Surges

An overview of the nature and impacts of hurricanes and storm surges, including their processes of formation and operation, examples of the significance and spatial variability of their impacts, and what the future is likely to hold in terms of climate change and developments in coastal management.



The day the earth moved

Shows how plate tectonics explains why some parts of the world are earthquake hot-spots, and uses a range of historic and contemporary examples to demonstrate and explain the variable environmental and social impacts of earthquakes.

Hydrological processes in disturbed forest environments

Dr Hugh Smith

An overview of the impact of different types of forest disturbance (including wildfire, timber harvest and insect attack) on hydrological processes spanning hillslope to river catchment scales. Case studies include examples from Australia and Canada.



HUMAN GEOGRAPHY

PHYSICAL GEOGRAPHY