



Sustainable Places
Research Institute
*Sefydliad Ymchwil
Mannau Cynaliadwy*

Sustainability Science Summer School

30 June – 04 July 2014

Sustainability Science in Practice: approaches, methods and engagement

Day \ Time	9.30am	11.30am	Lunch	2pm	4pm	5:30pm (evening session)
Monday 30		11am for 11.30 start. Registration / Welcome Introductions. Setting the scene. Aims and objectives for the week Getting to know each other poster session <i>(all presenters and participants)</i>	Provided	Sustainability Science and place-making: the current state of the art and critical perspectives. Terry Marsden .	Writing for Journal Publication [Social Sciences] Alex Franklin Writing for Journal Publication [Natural/Physical Sciences] Isabelle Durance	Sustainability Science: a review of the state of the art, an analysis through an analytical-evaluative approach and some empirical lessons Francesca Farioli <i>Interuniversity Research Centre for Sustainable Development/ Italian Association for Sustainability Science.</i>

Tuesday 01	Introduction: urban governance for food security Roberta Sonnino and Ana Moragues Faus	Workshop (in groups): assessing food security in urban food strategies – 1 hour Final feedback session (in groups)	Provided	Environmental health protection: models and evidence Brian MacGillivray	Spatial Network Analysis Crispin Cooper	
Wednesday 02	GIS for Sustainability Science Isabelle Durance			Site visit: Location tbc		
Thursday 03	Creative thinking in health & community research Yi Gong	Qualitative Research: Multimodal Methods and Case Study Methodology Abid Mehmood and Bella Dicks	Provided	GIS for Natural Sciences (practical session) Isabelle Durance	Getting research into policy - case studies Harvard Prosser	
				GIS for social sciences and planning (practical session) Crispin Cooper		
				Participatory Action Research Alex Franklin , and Ria Dunkley		
Friday 04	Student Feedback Session: mini-presentations on their own research/ research methodologies		Provided	Final feedback session. All presenters	CLOSE	

Session Overview

Title	Lead	Overview
Sustainability Science and place-making: the current state of the art and critical perspectives	Terry Marsden	This Introductory session, led by Institute Director Professor Terry Marsden, will explore the current state of the art and critical perspectives in relation to sustainability science.
Writing for Journal Publication [Social Sciences]	Alex Franklin	An introduction to writing for social science journals – an Editors perspective
Writing for Journal Publication [Natural/Physical Sciences]	Isabelle Durance	An introduction to writing for natural science journals
Introduction: urban governance for food security	Roberta Sonnino and Ana Moragues Faus	The session will cover a brief introduction to the evolution of the concept of food security and the emergence of cities as new policy actors in addressing its main concerns. Drawing upon specific examples, we will analyze the governance mechanisms (such as food policy councils) that cities are putting in place in order to redress their dysfunctional food systems. We will also explore the roles of other stakeholders in the urban food policy arena, including civil society organisations and the private sector. Finally, we will reflect on the role of research and academics in supporting these emerging processes through a discussion of our involvement in

		<p>different knowledge-exchange and action research projects.</p> <p>The second part of the session will consist of a knowledge brokerage activity, namely world café, where students will engage in the assessment of different urban food strategies devised in different geographical contexts. This tool will allow students to apply the concepts and tools introduced in the previous part of the session and to experience directly innovative mechanisms of learning and co-production of knowledge.</p> <p>Finally, we will discuss the results of the world café exercise on urban food security in different contexts and the strength and weakness of the knowledge brokerage tool utilized in the session.</p>
Environmental health protection: models and evidence	Brian MacGillivray	<p>Environmental and public health problems tend to be discussed in the language of risk. For example, what are the chances of bird flu pandemic this summer, what consequences would it entail, and how should we evaluate them? We will discuss various methodologies that are used to answer these questions, the sorts of assumptions they rest on, the kinds of knowledge they produce, and how they are used in policy contexts.</p>
Spatial Network Analysis	Crispin Cooper	<p>sDNA is an innovative tool for spatial network analysis that has been developed at the Sustainable Places Research Institute. We are developing a quantitative research methodology which so far has been applied to a variety of fields. This session will first introduce the theory behind sDNA and then give a tour of its applications in modelling vehicle and pedestrian flows, air pollution, social cohesion, access to natural recreational space, economic productivity and carbon footprinting.</p>

GIS for Sustainability Science	Isabelle Durance	<p>Many disciplines in the biomedical sciences, physical sciences and social sciences, seek increasingly to examine patterns in spatial data. In addition to their intrinsic value in developing and testing hypotheses, spatial patterns help to reveal key social, economic and environmental processes. The session will be research-led with discipline-specific input from academics working in this area.</p> <p>This initial theoretical session will be followed by practical sessions exploring the application of GIS for both social and physical sciences.</p>
Creative thinking in health & community research	Yi Gong	<p>Creative thinking plays a key role in research by enabling you to ask the right question, to see new patterns and no-so-obvious relationships. This highly interactive workshop will focus on creative thinking in the context of health, community and environment and help you to develop skills in finding new and creative answers to your research challenges. You will learn what creativity thinking is and how this can benefit your research. Participants will also discover a range of creative thinking methods that will develop participants' ability to think outside the box and to see things differently, which can be applied both in research and everyday life.</p>
Qualitative Research: Multimodal Methods and Case Study Methodology	Abid Mehmood and Bella Dicks	<p>This session looks at two specific approaches to qualitative research and analysis. Multimodal methods and case study approaches.</p> <p>The first part of the session will cover methodological issues involved in the conduct of qualitative research in which multiple modes of data are generated, while the second explores case study as an 'approach' to scientific research.</p>

GIS for social sciences and planning	Crispin Cooper	The GIS practical sessions will cover a range of topics, depending on the prior experience of participants, including basic mapping, spatial analysis and spatial network analysis, accessibility modelling and carbon foot printing, and advanced network tools such as the sDNA tool.
GIS for Natural Sciences	Isabelle Durance	Depending on levels of interest the two sessions may be combined.
Participatory Action Research	Alex Franklin & Ria Dunkley	This workshop aims to familiarise PhD students with key principles of participatory action research (PAR) methods and share ideas on the creation of place-based learning communities. Following on from an initial broad introduction to PAR, students will then be supported through a series of scenario based discussion group exercises. A particular focus during these exercises will be on interrogating the opportunities and constraints for applying principles of PAR whilst undertaking masters or doctoral programmes of research.