



Climate Change and Sustainable Futures

Marlborough College, Bath Road, Marlborough, Wiltshire, SN8 1PA

PROGRAMME

09.15 **Coffee available in the Memorial Hall terrace**

09.30 **Welcome (Memorial Hall)**

Louise Moelwyn-Hughes
David Hammond

Master Marlborough College
Chairman u3a in Kennet

09.45 **Climate Change – is it really real?**

Penny Tranter

Meteorological Office

Global 'Climate Change' has created global concern. In this presentation we will look at: the causes, projected impacts, possible steps for mitigation and the need for greater understanding of climate change and greater global awareness of the issue.

10.45 **Coffee (Memorial Hall terrace)**

11.05 **Fusion Power. Within our grasp?**

Chris Warrick

UK Atomic Energy Authority

The world energy issue will be covered and then move on to showing what nuclear fusion is (power generation free from CO₂ and nuclear waste) and how it is being researched using the machines in UK (JET) and the latest machine in France (ITER). I will endeavour to show the progress toward putting fusion generated electricity onto the grid within our lifetime

12.05 **Buffet Lunch (Marquee in Court)**

13.30 **The Circular Carbon Economy**

Professor Peter Edwards FRS

University of Oxford

Carbon will continue as a necessary component for our energy future – *but* – only with its continued use in a sustainable *and* circular manner. **Our Carbon Economy must therefore become a closed loop, Circular Carbon Economy.** The *Circular Carbon Economy* is the route to a world economy that is both restorative and regenerative

14.30 **Societal Perceptions of Climate Change and Support for Low Carbon Lifestyles**

Dr Katherine Steentjes

University of Cardiff

The challenge set out by international agreements, to keep global warming to below 2°C, will require drastic changes to our lifestyles. This talk will examine current shifts in public perception and look at what motivates behaviour change, the aim being to understand psychological barriers and motivations to embrace low carbon lifestyles on both individual and at societal levels.

15.30 **Closing Words followed by Tea in the Memorial Hall terrace**

16.00 **Departure**

Speaker Biographies

Penny Tranter is currently a Met Office Advisor working in Southwest England and is involved in providing professional meteorological and climate advice, primarily on severe weather, to emergency responders and planners. Penny has worked in the Met Office for over 35 years originally as a professional weather forecaster. Previous roles have included: national and international BBC weather presenter between 1992 and 2008, Meteorology Training Manager at the Met Office College 2008 to 2011 and a member of the successful official Met Office weather forecasting team for the sailing events in Weymouth during the London 2012 Olympics and Paralympics. Penny is a Chartered Meteorologist and a Fellow of the Royal Meteorological Society. She enjoys sailing, powerboat instructing, swimming, walking, cinema, theatre, watching tennis, Bath and 6 Nations Rugby, and girlie weekends.



Chris Warrick is head of stakeholder engagement at UKAEA. After graduating with a degree in Physics from the University of Wales, Chris joined Culham in 1990 working as an experimental physicist on various fusion devices until 2001. In 2001, Chris joined the Communications team – with particular responsibility for education and public outreach, before leading the group in April 2010. His present role includes all stakeholder engagement especially political; public and education outreach and internal communications.



Peter Edwards is professor of Inorganic Chemistry at Oxford University and a core member of Oxford Energy (<https://www.energy.ox.ac.uk/wordpress/>) and a Fellow of St Catherine's College. He is the recipient of the Corday–Morgan Medal (1985), the Tilden Lectureship (1993–94) and Liversidge Award (1999) of the Royal Society of Chemistry. He was awarded the 2003 Hughes Medal of the Royal Society for his distinguished work as a solid state chemist. In the spring of 2012 he was elected International Member of the American Philosophical Society; one of only four people from the UK in that year to be awarded this honour across all subjects and disciplines. He was elected as a Foreign Honorary Member of the American Academy of Arts and Sciences in 2014.



Katharine Steentjes is a Social Psychologist and currently works for the Centre for Climate Change and Social Transformations at Cardiff University. She has worked on several international research projects examining public perceptions of environmental risks (such as climate change), policy strategies, energy solutions and psychological factors underlying these views. Katharine's particular research interest concerns social normative processes surrounding climate change, how norms are communicated interpersonally and how society (might) shift towards more sustainable lifestyles. Having a focus on communicating research findings to wider audiences, Katharine has been involved in public engagement events.

