



The Prince of Wales's Food and Farming Summer School

17th-19th July 2013

**Organic Research Centre
Elm Farm, Newbury**

and

**Duchy Home Farm
Tetbury**

About the event

The Prince of Wales's Food and Farming Summer School has been held since 2007, initially at Duchy Home Farm, Tetbury and Highgrove, then at the Royal Agricultural College, Cirencester and now at the Organic Research Centre.

The summer school engages leading individuals from farming, food businesses, research, government and non-governmental organisations in addressing the challenges of producing sufficient food sustainably, to meet not just the requirements of current but also of future generations.

Within the UK, the need to increase food production through sustainable intensification is widely promoted, but the concept is also challenged for being too narrow.¹ The complexity of the problem is highlighted by the UK Government's Foresight review² published in early 2011, which recognized the need to reduce waste, reduce demand for resource hungry products and protect biodiversity and ecosystem services, as well as to increase productivity.

The challenge is not just how much food we can produce per acre. Land may not even be the most limiting resource, with soil degradation and water availability key issues in some regions, and serious concerns about peak oil and the fossil fuel dependence of intensive farming systems.

We need to plan for energy as well as food security based on renewable resources, with more efficient utilisation of what we already produce. We need to review the role of livestock in food production and human diets, with both health and environmental implications.

¹ *Sustainable intensification in agriculture. Navigating a course through competing food system priorities* (2012) Oxford Martin Programme on the Future of Food and the Food Climate Research Network. [Full report.](#)

² *Foresight: The Future of Food and Farming Challenges and Choices for Global Sustainability* (2011) [Executive summary](#) and [full report.](#)

However, while sustainable food security is a complex issue, a simplified 'increased production whatever else happens' agenda has been picked up by some politicians and parts of the agricultural industry. This has been used to question whether organic farming and other agroecological alternatives, which offer significant environmental potential, can also deliver against the productivity benchmark.

Yet it is clear from various reviews that there is no single solution. Recent Royal Society³, IAASTD⁴, UN⁵, SCAR⁶ and OECD⁷ reports have recognised that agroecological as well as technological solutions such as GM have relevance, although some have questioned further technological intensification when the majority of the world's food is still produced by resource-poor, low-intensity producers.

Even where a technology-driven sustainable intensification route is the preferred policy option, the continued development of agroecological alternatives has relevance as an insurance policy should the preferred route fail.

The summer school will seek to grapple with the complexity of these issues, providing unique insights in an integrated framework where biological systems, physical resources, economic realities and social, ethical and policy issues and perspectives are brought into contact with each other. The issues will be addressed by leading experts in a discursive approach, where they are not only presenting but also participating in discussions throughout the event.

³ *Reaping the benefits: Science and the sustainable intensification of global agriculture* (2009) Royal Society, London. [Full report](#).

⁴ *Agriculture at a Crossroads* (2008) International Assessment of Agricultural Knowledge, Science and Technology Development. [Exec. summary](#) and [all reports](#).

⁵ *Report to the UN General Assembly Human Rights Council submitted by the Special Rapporteur on the right to food, Olivier De Schutter* (2012) [Full report](#).

⁶ *Sustainable food consumption and production in a resource-constrained world* (2011) EU Commission Standing Committee on Agricultural Research. [Full report](#).

⁷ *Challenges for agricultural research* (2011) OECD, Paris. [Contents](#).

Programme

Wednesday 17th July

14:00 Arrival at Elm Farm (minibuses from station)

14:30 Welcome and introductions (Prof. Nic Lampkin)

Food security and sustainable intensification

(Chair: Mike Turnbull)

15:00 *Food security and sustainable intensification: Setting out the challenges* (Prof. John Wibberley)

16:00 Transfer to Newbury accommodation for check-in (minibuses, own transport)

16:45 Transfer to Bishopstone for farm walk and dinner (minibuses)

17:30 *Eastbrook Farm: farm walk* (led by Helen Browning)

19:30 Dinner at Royal Oak, Bishopstone

20:30 *Alternative routes for getting to a sustainable future* (Helen Browning)

22:00 Return to Newbury accommodation (minibuses)



Organic, free-range piglets at Eastbrook Farm, Bishopstone

Programme (cont.)

Thursday 18th July (am)

07:30 Breakfast at hotels

08:30 Transfer to Elm Farm (minibuses)

Economic, social and public health challenges

(Chair: Prof. Allan Buckwell)

09:00 *The economic dimension* (Prof. Tim Jackson)

09:40 *The public health dimension* (Prof. Tim Lang)

10:20 *The social dimension* (Julia Aglionby)

11:00 Refreshment break

Resource use sustainability (Chair: Rob Macklin)

11:30 *Genetically modified crops: safety and efficacy*
(Dr Michael Antoniou)

12:00 *Water management, quality and pollution*
(Prof. Bob Harris)

12:30 *Energy, soils and nutrients*
(Dr Christine Watson)



Wheat composite cross populations at Duchy Home Farm, Tetbury

Programme (cont.)

Thursday 18th July (pm)

13:00 Lunch

13:30 Transfer to West Woodhay Estate (minibuses)

Sustainable resource use in practice: farm visit

14:00 *West Woodhay Estate: zero tillage and conservation*
(Harry Henderson, James Dockray, Stuart Cath)

16:00 Transfer to Elm Farm (minibuses)

16:15 Refreshment break

Agroforestry alternatives

(Chair/introduction: Geraint Richards)

16:45 *Making diversity central to cropping systems*
(Prof. Martin Wolfe)

17:15 *ORC agroforestry trial visit* (led by Dr Jo Smith)

18:00 Dinner at Elm Farm

19:30 *After dinner event* (to be confirmed)

21:30 Transfer to Newbury accommodation (minibuses)



Aerial view of Wakelyns Agroforestry, Suffolk

Programme (cont.)

Friday 19th July

07:00 Breakfast at hotels

08:00 Transfer to Duchy Home Farm, Tetbury
(minibuses and own cars to travel home after event)

09:00 *Visit to Duchy Home Farm, Tetbury*
(led by David Wilson, with Geraint Richards)

What role for livestock in sustainable systems?

(Chair: Prof. John Wibberley)

11:00 *Antibiotics risks in livestock production*
(Dr. Dai Grove-White)

11:25 *Could organic farming feed the world with less meat?*
(Prof. Nic Lampkin)

11:50 Transfer to Highgrove

Reception at Highgrove

12:30 *Conclusions and actions* (Prof. John Wibberley)

13:15 Lunch

14:15 *Visit to Highgrove Gardens*

15:30 Departure (minibuses to return train travellers to convenient stations)



Highgrove Gardens

Contributors

Julia Aglionby (FFSS Faculty⁸)

Julia Aglionby is Director of the National Centre for the Uplands at Askham Bryan's Newton Rigg College. A chartered surveyor and agricultural valuer by profession, she is Chair of the Foundation for Common Land, a charity that brings together people managing pastoral common land, and a member of Defra's Sustainable Upland Forum. Committed through bridge building to bring together the interests of farmers and the vast range of other bodies with an interest in the uplands, her experience includes the delivery of multi-partite agreements, advising MPs and peers on uplands issues, speaking and chairing at national and international events and academic research on the governance of common land in National Parks. Her strap line is multiple perspectives - multiple truths. Julia also has an active and practical involvement in the family's beef and sheep farm in the Eden Valley in Cumbria.

Dr Michael Antoniou

Michael Antoniou is Reader in Molecular Genetics and Head of the Gene Expression and Therapy Group at King's College London School of Medicine. He has 32 years' experience in the use of genetic engineering technology investigating gene organisation and control, with over 50 peer reviewed publications, and holds inventor status on a number of gene expression biotechnology patents. Dr Antoniou's discoveries in gene control mechanisms are seeing application in industry for the production of research, diagnostic and therapeutic products and in academia in the development of safe and efficacious human somatic gene therapy for inherited and acquired genetic disorders. As a molecular biologist, he has taken a critical view of crop genetic modification and has advised NGOs and civil society groups on the subject both nationally and internationally. In 2012 he published with others: *GMO Myths and Truths – an evidence-based examination of the claims made for the safety and efficacy of genetically modified crops*.

Helen Browning

Helen Browning runs a tenanted 550 ha organic livestock and arable farm in Wiltshire supplying organic meat to supermarkets. The business has also diversified to take on the running of the village pub. Helen Browning was appointed Chief Executive of the Soil Association in 2011 and is leading the SA's efforts to broaden the message on sustainable food production. She was previously Director of External Affairs at the

⁸ Food and Farming Summer School Faculty members are regular contributors.

Programme and Registration Form

National Trust and Food and Farming Director at the Soil Association. Helen is Chair of the Food Ethics Council and has been a member of several important commissions concerning British agriculture and food, including the Curry Commission on the Future of Farming and Food, the Agriculture and Environment Biotechnology Commission and the Meat and Livestock Commission. She was awarded an OBE in 1998 for services to organic farming.

Prof. Allan Buckwell (FFSS Faculty)

Emeritus Professor Allan Buckwell is now Senior Fellow at the Institute for European Environmental Policy, having been policy director for the CLA from 2000-2011. Before that he was Professor of Agricultural Economics at Wye College, University of London, specialising in teaching and research into all aspects of European rural policy dealing especially with the Common Agricultural Policy, trade issues, and technology and structural change in farming and its impacts. During 1995/6 he was seconded to the analysis and conception unit of DG Agri in the European Commission where he chaired a policy integration group on a model for the evolution of the CAP.

Dr. Dai Grove-White

Dai Grove-White is lecturer in Farm Animal Studies at the University of Liverpool. After graduation from Liverpool in 1975 he worked overseas before returning to Wales to establish a two person farm practice. He was awarded FRCVS in 1997. He joined Liverpool University in 2000 and was awarded a PhD in 2009 for research into ruminant *Campylobacter jejuni*. His research interests include dairy calf health Johnes disease, the molecular epidemiology of *Campylobacter*, and the study of lameness in sheep and food-borne zoonoses.

Prof. Bob Harris

Bob Harris has spent his career working, at local, regional and national levels, for public organisations in the water and environment sectors in the UK and also has wide experience of working within the European community. Through providing expertise to regulatory staff, managing applied research programmes and supporting policy, Bob has been at the interface of science and its uptake in decision-making or for policy development for 40 years. He managed the Environment Agency's Integrated Catchment Science research programme to underpin the development of new approaches and policies relating to the WFD.

Bob is now contracted to Defra as Secretariat of their Demonstration Test Catchments Programme and also advises them on their new Catchment Based Approach to river basin planning. He is Visiting Professor in Catchment Science at the University of Sheffield and recently acted as specialist advisor to the House of Lords EU Sub-Committee on Agricul-

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ture, Fisheries and Environment). At the other end of the scale he works closely with his local community in the Shropshire Hills helping understand and reduce the impact of agriculture on the environment in the Clun Valley.

Harry Henderson

Harry Henderson lives and farms at West Woodhay in Berkshire, where he has been developing zero tillage arable systems with a strong interest in the impacts on soil fertility and energy consumption. He was High Sheriff for the Royal County of Berkshire in 2008. He is also an investment manager, Chairman of Witan Investment Trust plc and former MD of Cazenove. He has several charitable roles, including Chairman, Farmington Trust (Wills family); Director, the Cadogan Settled Estates Ltd; Trustee, Countryside Learning; Trustee, Ernest Cook Trust; Trustee, Winston Churchill Memorial Trust.

Prof. Tim Jackson

Tim Jackson is an ecological economist and professor of sustainable development at the University of Surrey. He was the founder and director of the Research Group on Lifestyles Values and Environment (RESOLVE) and is director of the Defra/ESRC Sustainable Lifestyles Research Group (SLRG). He is the author of *Prosperity Without Growth: economics for a finite planet* (2009), based on a report produced while he was Economics Commissioner at the Sustainable Development Commission. At the Stockholm Environment Institute, he pioneered the concept of preventative environmental management outlined in his 1996 book *Material Concerns – pollution profit and quality of life*. Recently, his research has focused on consumption, lifestyle and sustainability. He also works with the New Economics Foundation.

Prof. Nic Lampkin

Nic Lampkin is Director of the Organic Research Centre and an agricultural economist with research interests in development and evaluation of EU agri-environmental and rural development policies and the sustainability assessment of farming systems. As part of this, he has worked on issues relating to the productivity, resource use efficiency and financial performance of organic farming systems, including the development of a Net System Output concept for assessing relative productivity. He is an adviser to the European Commission, Welsh Government and Defra on organic farming policy and regulatory issues. He is author of the *Organic Farming* text book and edits the *Organic Farm Management Handbook*.

Prof. Tim Lang (FFSS Faculty)

Tim Lang has been Professor of Food Policy at City University London's Centre for Food Policy since 2002. After a PhD in social psychology at

Leeds University, he became a hill farmer in the 1970s, which shifted his attention to food policy, where it has been ever since. For over 35 years, he's engaged in academic and public research and debate about its direction, locally to globally. His abiding interest is how policy addresses the environment, health, social justice, and citizens. His new book with Geoff Rayner *Ecological Public Health: reshaping the conditions for good health* is published by Earthscan/Routledge.

Rob Macklin (FFSS Faculty)

Rob Macklin is Head of Food and Farming at the National Trust, the country's largest owner of farmland and one of the largest fresh food caterers. The NT also manages dozens of historic kitchen gardens, allotments and other growing spaces, believing that sustainable food production is crucial for conserving the environment and the landscapes we all cherish.

Geraint Richards (FFSS Faculty)

Geraint Richards is Head Forester for the Duchy of Cornwall, a role that has expanded over the years to include managing the 1,800 ha of woodland across the Duchy's estate, woodlands which are scattered from the Isles of Scilly to Herefordshire with much in between. During his early years, the Duchy became one of the first estates to gain FSC certification for its woodlands. The Duchy has also taken an active interest in "continuous cover" or "close-to-nature" forestry. In his capacity as Head Forester, Geraint participates on several committees: Country Land and Business Association, the Soil Association, the British Irish Hardwood Trust, the England Forest Industries Partnership and Woodland Heritage (a charity of which His Royal Highness is a Patron).

Dr Jo Smith

Jo Smith is Senior Agroecology Researcher leading the Organic Research Centre's Agroforestry research programme. She studied for an MSc in Biodiversity and Taxonomy at the Natural History Museum and Imperial College and for her dissertation compared soil macrofaunal communities in organic and non-organic gardens. She went on to complete a PhD on assessing the value of agri-environment schemes for soil biota with the Centre for Agri-Environment Research at the University of Reading, joint with the Soil Biodiversity group at the Natural History Museum. She has been working at ORC since June 2009 and is working on a range of projects investigating the value of agroforestry as a way of reconciling production with protection of the environment.

Mike Turnbull

Mike Turnbull is Chair of the Organic Research Centre and the International Tree Foundation, previously having also been Chair of Tree Aid. He spent his working life in the public and not-for-profit sectors. Working

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initially in the Department of the Environment (on transport policy, housing, urban regeneration and international environmental protection), he then held two Director posts at the Housing Corporation, was Executive Director of the National Association of Head Teachers, and subsequently held several freelance management roles in public agencies before retiring in 2010. He has also been Vice Chair of a mental health charity, Sussex Oakleaf (2005-10).

Dr Christine Watson

Christine Watson leads the Soils and Systems research team at Scotland's Rural College (SRUC, formerly SAC). Her research interests include nutrient cycling and soil management in organic and conventional farming systems. Christine and colleagues continue to run a long-term experiment on organic crop rotations established at Aberdeen in 1991. She is also a member of the management team and teaching staff for SRUC's Postgraduate Diploma/MSc in organic farming.

Prof. John Wibberley (FFSS Faculty)

John Wibberley is an agriculturalist and rural resource management consultant, working in the UK and internationally, especially in Africa. He is visiting Professor at the Royal Agricultural College, Cirencester, where he was Head of Agriculture until 1989. Since 2008, he is a Secretary of State Appointee on Exmoor National Park Authority. Since 2000, he coordinates the Council for Awards of Royal Agricultural Societies, which aims to recognise outstanding contributions to UK agricultural and rural progress.

David Wilson (FFSS Faculty)

David Wilson is Farm Manager of Prince of Wales's Duchy Home Farm at Tetbury. The farm is used to demonstrate organic production methods both as a commercial working farm as well as through a number of research projects. David was a council member of the Soil Association for six years and is now an honorary life member. He is a member of the Royal Agricultural College School of Agriculture Advisory Board and the Wiltshire Wildlife Trust Farming Committee.

Prof. Martin Wolfe

Martin Wolfe is Principal Scientific Adviser to the Organic Research Centre. After a career at the Plant Breeding Institute, Cambridge, starting in 1960, he held the Chair of Plant Pathology at the Swiss Federal Institute of Technology, Zurich (1988-97). He now farms Wakelyns Agroforestry in Suffolk, which is the main site for ORC's arable farming research. The field trials are rotated within six organic agroforestry systems, developed over the past 16 years to optimise functional biodiversity. The diversity theme is also evident in the current projects on crop population breeding as an alternative to the pure line approach.

Registration form

Please return completed forms to Gillian Woodward at:
Organic Research Centre, Elm Farm, Hamstead Marshall, New-
bury, RG20 0HR. E-mail: gillian.w@organicresearchcentre.com.
This form can also be completed and payment made on-line at:
www.organicresearchcentre.com/?i=events.php.

Title: _____

First name: _____

Last name: _____

Organisation: _____

Address: _____

Town: _____

Postcode: _____

E-mail: _____

Landline: _____

Mobile: _____

Special dietary requirements: _____

Other special needs: _____

Travel arrangements: I am planning to travel by:

private transport public transport

Accommodation (not included):

I have reserved/am planning to reserve accommodation
at: _____ hotel.

I would like to reserve hostel-style accommodation at
Elm Farm at £15 per night incl. VAT for _____ nights.

Participant fees & payment options

The Food and Farming Summer School is self-funded through participant fees and a limited number of donated bursaries.

The cost of the three-day event, including speakers, course materials, meals/refreshments and minibus transport is: **£500 plus VAT (£600 total) per participant.**

Please note that this does not include accommodation.

Payments may be made by:

Cheque: made payable to 'Organic Research Centre'.

BACS or CHAPS transfer: please e-mail gillian.w@organicresearchcentre.com for account details.

Credit card by phone: Please phone Gillian Woodward on 01488 569298 ext. 554.

Credit card/Paypal on-line: Please visit the event page at: www.organicresearchcentre.com/?i=events.php

Bursaries:

If you would be interested in bursaries if available, please indicate this under 'other special needs' on the booking form.

Conditions:

Payments must be made within five working days of submitting the booking form. In the event of cancellation up to two weeks before the event, refunds will be made subject to a 10% cancellation charge. No refunds can be made for cancellations received less than two weeks before the event. If the course is cancelled by us, a full refund of the participant fee will be made, but we can accept no liability for other costs incurred by you.

Company details:

We are registered in the UK as Progressive Farming Trust Ltd, trading as the Organic Research Centre. Company No.: 1513190; VAT No.: GB314 6681 59. Registered office: Elm Farm, Hamstead Marshall, Newbury, RG20 0HR. The Progressive Farming Trust Ltd. is a registered educational charity no. 281276.

Accommodation

Accommodation is *not* included in the price of the event. There are several hotels in the Newbury area, including the ones listed below which will be serviced by summer school minibuses. Bookings can be made directly via the websites/ phone numbers given, or (often at a discount) via on-line services such as www.booking.com or www.hotels.com.

Hilton Hotel, Newbury South

Pinchington Lane, Newbury RG14 7HL
Tel: 01635 529000 Fax: 01635 247077
www.hilton.com/newburycentre

Chequers Hotel, Central Newbury

6-8 Oxford St, Newbury RG14 1JB
Tel: 01635 38000
www.chequershotelnewbury.co.uk

Travelodge, Central Newbury

49 London Road, Newbury, RG14 1JN
Tel: 0871 9846475 Fax: 01635 30284
www.travelodge.co.uk/hotels/508/Newbury-London-Road-hotel

Hare and Hounds at Speen, West Newbury

Bath Road, Newbury, RG14 1QY
Tel: 01635 521152
www.hareandhoundshotel.net

White Hart Inn (Hamstead Marshall, opp. Elm Farm)

Hamstead Marshall, Newbury, RG20 OHW
Tel: 01488 657545
www.whitehartinnhamsteadmarshall.co.uk

Hostel-style accommodation at Elm Farm

with continental, self-service breakfast is available in the Elm Farm farmhouse at £15/ night incl. VAT. If you are interested in this option, please indicate this when making your booking.



Established in 1980 as an educational charity, the Organic Research Centre's focus is on research and knowledge exchange to develop sustainable food and land management systems based on agro-ecological approaches including organic farming and agroforestry.

Funded by government and EU research contracts, charitable grants and donations, a significant proportion of our work is on eco-functional intensification as a means to improve both productivity and ecosystem service delivery.

For more details, see: www.organicresearchcentre.com

Or contact us at:

Organic Research Centre
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Newbury, RG20 0HR, UK

Tel: 01488 658298

E-mail: elmfarm@organicresearchcentre.com

