A two day conference

at the University of Leeds

on 19 - 20 June 2014

PROGRAMME &
DELEGATE LIST

Agronomic decision making in an uncertain climate

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In recent years unusual weather patterns in North West Europe indicate that we can no longer rely on a settled climate. In addition, plateauing of certain crop yields over the last 15 years may be, in part, a reflection of climate change. Hence, agronomic decision making can no longer follow time-honoured recipes. We need new approaches.

This conference will be themed around the agronomic management of key temperate crops, including cereals, oilseed rape, field vegetables and pasture/forage crops. In each case, we will review the challenges faced in practice over the last few seasons, try and identify what did and did not work in agronomic management and draw out lessons to improve the effectiveness of decision-making under climate uncertainty.

PROGRAMME
(9 BASIS points have been awarded as follows: 3 CP, 3 E, 3 PD)

THURSDAY 19 JUNE 2014

09:00 CONFERENCE REGISTRATION & COFFEE (Great Woodhouse Room, University House)  
The Conference is to be held Great Woodhouse Room, University House

10:00 WELCOME & INTRODUCTION  
ROB CARLTON (Carlton Consultancy, Lyon, France)

Session 1: Changing Climate

10:10 Invited speaker  
Climate information including uncertainty to inform decisions  
ROGER STREET (Environmental Change Institute (UKCIP), University of Oxford, Oxford, UK)

10:40 DISCUSSION

Session 2: Agronomic practice

10:50 Sustainable agriculture under the impact of climate change  
NIKOLAI SVOBODA, MAXIMILIAN STRER & JOHANNES HUFNAGEL (Leibniz Centre for Agricultural Landscape Research, Müncheberg, Germany)

11:10 Soil cultivation influences on organic spring wheat performance in contrasting weather  
A V VIJAYA BHASKAR, W PAUL DAVIES, NICOLA D CANNON & JOHN S CONWAY (The Royal Agricultural University, Cirencester, Gloucester, UK)
11:30 COFFEE

12:00 Effect of different cultivation systems, seed rate and nutrition on crop establishment and yield of winter oilseed rape
S SHAH, C FLINT, D LANGTON & J M FLETCHER (Agrii Technology Centre, Swindon, UK)

12:20 Use of micro-dams in potato furrows to reduce erosion and runoff and minimise surface water contamination through pesticides
C OLIVIER, J-P GOFFART (CRA-W, Gembloux, Belgium), D BAETS (Bayer CropScience, Diegem, Belgium), D XANTHOULIS, N FONDER, G LOGNAY, J-P BARTHÉLEMY (ULg - Gembloux Agro-Bio Tech, Gembloux, Belgium) & P LEBRUN (Fiwap, Gembloux, Belgium)

12:40 DISCUSSION

13:00 LUNCH

Session 3: Yields

14:00 Invited speaker
Climate Change: Getting the Policy Right
SEAN RICKARD (Sean Rickard Ltd, Independent Economic Analysis, UK)

14:40 The Yield Enhancement Network: philosophy, and results from the first season
ROGER SYLVESTER-BRADLEY & DANIEL KINDRED (ADAS Boxworth, Cambridge, UK)

15:00 Can agriculture manage climate change effects? A modelling approach
MAXIMILIAN STRER, NIKOLAI SVOBODA (Leibniz Centre for Agricultural Landscape Research, Müncheberg, Germany) & ANTJE HERRMANN (Kiel University, Kiel, Germany)

15:20 DISCUSSION

15:30 COFFEE

Session 4: Mitigation

16:00 Invited speaker
Balancing the needs for climate change mitigation and food security
PETER SMITH (University of Aberdeen, Aberdeen, UK)

16:30 Assessment of GHG abatement cost in European agriculture via increasing the share of rotations with legumes
BENJAMIN DEQUIEDT (Climate Economics Chair, Palais Brongniart, Paris, France), JULIETTE MAIRE, VERA EORY, CAIRSTIONA F E TOPP, ROBERT M REES (Scotland's Rural College, Edinburgh, UK), PETER ZANDER, MORITZ RECKLING & NICOLE SHLAEFKE (Leibniz Centre for Agricultural Landscape Research (ZALF), Müncheberg, Germany)

16:50 The impact of weather on nitrous oxide emissions from arable land in the UK
CAIRSTIONA F E TOPP (SRUC, Edinburgh, UK), KATE E SMITH, RACHEL E THORMAN (ADAS Boxworth, Cambridge, UK), VALENTINI A PAPPA (SRUC, Edinburgh, UK), GAIL BENNETT (ADASGleadthorpe, Mansfield, UK), STEVEMALKIN (ADASTerrington, King'sLynn, UK), LAURA CARDENAS (Rothamsted Research, North Wyke, UK), MASUMA CHAUHAN (ADAS Boxworth, Cambridge, UK), TOM MISSELBROOK (Rothamsted Research, North Wyke, UK), DAN G MUNRO (ADAS Boxworth, Cambridge, UK), ROBERT M REES (SRUC, Edinburgh, UK), STEVEN ANTHONY (ADAS Wolverhampton, Wolverhampton, UK) & ROGER SYLVESTER-BRADLEY (ADAS Boxworth, Cambridge, UK)
FRIDAY 20 JUNE 2014

Session 5: Disease control

09:00 Exploring the factors influencing epidemic development of *Septoria tritici* in wheat and success of current control strategies
MORAY TAYLOR, STÉPHANE PIETRAVALLE (Food & Environment Research Agency, York, UK), ALISON DANIELS, ANDREW FLIND (Bayer CropScience Limited, Cambridge, UK) & JUDITH TURNER (Food & Environment Research Agency, York, UK)

09:20 Precision disease detection to enhance crop protection decisions in a changing climate
JON WEST (Rothamsted Research, Harpenden, UK)

09:40 DISCUSSION

09:50 POSTERS (5 minute presentations)

Predicting timing of release ascospore of *Leptosphaeria* spp. to improve control of phoma stem canker on oilseed rape in the UK
AIMING QI, YONG-JU HUANG, MARTIN MALCOLM-BROWN, SITI NORDAHLIAWATE M SIDIQUE & BRUCE D L FITT (University of Hertfordshire, Hatfield, UK)

Optimising N use on farm and minimising nitrate leaching - What do current recommendations miss?
MFTAHI ALMADNI, JULIA COOPER & ELIZABETH STOCKDALE (Newcastle University, Newcastle Upon Tyne, UK)

Pesticide management in Scottish spring barley – insights from sowing dates
STACIA STETKIEWICZ (Scotland's Rural College, Edinburgh, UK; University of Edinburgh, Edinburgh, UK), FIONA BURNETT, CAIRISTIONA TOPP (Scotland’s Rural College, Edinburgh, UK) & RICHARD ENNOS (University of Edinburgh, Edinburgh, UK)

Weed prevalence under organic and low-input cultivation systems
A V VIJAYA BHASKAR, K RIAL LOVERA, W P DAVIES & N D CANNON (The Royal Agricultural University, Cirencester, Gloucester, UK)

Soil Amendments and Climate Change
NATASHA MORTIMER & LOUISE FLETCHER (University of Leeds, Leeds, UK)

10:10 COFFEE & POSTERS

Session 6: Pollinators and Social Factors

10:45 Weather-related declines of vulnerable moths (Lepidoptera)
IAN SIMS, PETER SUTTON (Syngenta International Research Centre, Berkshire UK), PETER VERDON (Regent's University London, London, UK) & CAROLINE WILLETTS (Syngenta International Research Centre, Berkshire UK)

11:05 Novel strategies to mitigate abiotic stress effects on yield through enhanced pollination in faba bean (*Vicia faba* L.)
JACOB BISHOP, MARTIN LUKAC, HANNAH E JONES, & SIMON G POTTS (University of Reading, Berkshire, UK)
11:25 DISCUSSION & CONFERENCE WRAP UP

12:00 LUNCH (Grab Bag Lunch)

13:00 CLOSE