



**ASSOCIATION OF APPLIED BIOLOGISTS**

*President: Professor Bill Davies*

**A two day conference**

**at Peterborough Arena,  
Peterborough, UK**

**on 15 – 16 February 2017**

**PROVISIONAL PROGRAMME**

**Crop Production in  
Southern Britain 2017  
with support from**



Association of Applied Biologists, Warwick Enterprise Park, Wellesbourne, Warwick CV35 9EF, UK

Registered Charity No. 275655; <http://www.aab.org.uk>

Tel: +44 (0)2476 575195; Fax: +44 (0)1789 470234; Email: [John@aab.org.uk](mailto:John@aab.org.uk)

# Crop Production in Southern Britain 2017

in association with BCPC

on 15 – 16 February 2017

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## Programme

(BASIS Have been applied for)

### WEDNESDAY 15 FEBRUARY 2017 – CROP PROTECTION

08:30 COFFEE and REGISTRATION

09:15 WELCOME and INTRODUCTION  
JIM ORSON (NIAB TAG, Cambridge)

#### *Session 1: Weed Control*

09:20 GF-2644 A new herbicide for the control of broad leaved weeds in cereals  
STUART JACKSON (Dow AgroSciences Limited, Hertfordshire)

09:35 Bensulfuron-methyl: for spring control of broad-leaved weeds in wheat, barley, oats, rye and triticale  
PAMELA A CHAMBERS (UPL Europe Ltd, Cheshire)

09:50 Considerations for optimising the application of pre-emergence herbicides  
CLARE BUTLER ELLIS, ANDREW LANE (Silsoe Spray Applications Unit Ltd, Bedford),  
DAVID ROBINSON (Crop Dynamics: Frontier agriculture Ltd) & CHRISTINE O'SULLIVAN  
(Silsoe Spray Applications Unit Ltd, Bedford)

10:05 Development and efficacy of entostat sprayable herbicide formulation  
KRISTI THOMAS, IGOR CURCIC, FIONA MOONIE & AOIFE DILLON (Exosect Ltd, Hampshire)

10:20 Severity of grass and white clover sward damage during spot-spraying of herbicides  
JOHN HUNT (Rothamsted Research, Devon)

10:35 COFFEE

#### *Session 2: Disease Control*

11:00 Estimating costs of septoria leaf blotch (*Zymoseptoria tritici*) on wheat to UK farmers and the UK agricultural sector  
P GOSLING (AHDB Cereals & Oilseeds, Warwickshire) & A ROBERTS (Biomathematics & Statistics Scotland, JCMB, Edinburgh)

- 11:15 **Strategies to delay the development of fungicide resistance: alternation, mixtures or restricting the number of treatments?**  
CAROLINE YOUNG (ADAS, Stratford upon Avon)
- 11:30 **Quantifying the non-fungicidal effects of boscalid dimoxystrobin co-formulation in winter oilseed rape**  
JULIE SMITH (ADAS Rosemaund, Hereford), CLARE TUCKER (BASF plc, Cheshire), CHARLOTTE WHITE (ADAS Gleadthorpe, Nottingham) & PETE BERRY (ADAS High Mowthorpe, North Yorkshire)
- 11:45 **Investigating the risk of severe phoma stem canker caused by *Leptosphaeria biglobosa* on winter oilseed rape in UK**  
ASNA JAVAID, BRUCE FITT & YONG-JU HUANG (University of Hertfordshire, Hatfield)
- 12:00 **Effect of bio-stimulants on crop vigour, over-winter survival, disease incidence and grain yield of winter wheat and winter oilseed rape**  
SYED SHAH, SARAH HOOKWAY, SARAH WILKINSON & JOHN FLETCHER (Agrii Technology Centre (AgriiFocus), Swindon)
- 12:15 **Integrated disease control using strawberry powdery mildew as an example**  
AVICE M HALL, XIOALEI JIN & BO LIU (University of Hertfordshire, Hatfield)
- 12:30 **BCPC awards**  
COLIN RUSCOE (BCPC President & Executive Chairman, Hampshire)
- 12:40 **LUNCH AND POSTER**

**Reducing epidemics of strawberry powdery mildew using a silicon nutrient to give reduced susceptibility to *Podosphaera aphanis***  
C I ASIANA, A M HALL & K DAVIES (University of Hertfordshire, Hatfield)

***Session 3: CRD, HSE Workshop – opportunities to improve the field management of pesticides***

- 13:20 **CRD are seeking views on opportunities to improve labels, stewardship, IPM uptake, and other practicalities. CRD also want to listen to your views on the opportunities and risks for pesticide regulation following an exit from the EU**  
JAYNE WILDER (CRD's operational policy team, York)

***Session 4: Insects, Nematodes and Slugs***

- 14:30 **The economic impact of oilseed rape crop losses from cabbage stem flea beetle (*Psylliodes chrysocephala*) in autumn 2014 and 2015**  
CAROLINE NICHOLLS (AHDB Cereals & Oilseeds, Warwickshire)
- 14:45 **Integrated pest management of cabbage stem flea beetle in oilseed rape**  
SACHA WHITE (ADAS Boxworth, Cambridge) STEVE ELLIS (ADAS High Mowthorpe, Yorkshire), SARAH KENDALL (ADAS Gleadthorpe, Nottinghamshire) & P BERRY (ADAS High Mowthorpe, Yorkshire)
- 15:00 **Interactions between *Heterodera schachtii* and sugar beet**  
ALISTAIR WRIGHT (The University of Nottingham, Sutton Bonington Campus), MARK STEVENS (British Beet Research Organisation, Norfolk), MATTHEW BACK (Harper Adams University, Shropshire) & DEBBIE SPARKES (The University of Nottingham, Sutton Bonington Campus)

15:15 **Sustainable management of slugs in commercial fields: assessing the potential for targeting control measures**

E FORBES, M BACK, A BROOKES (Harper Adams University, Shropshire), N PETROVSKAYA (University of Birmingham), S PETROVSKII (University of Leicester), T POPE & K WALTERS (Harper Adams University, Shropshire, UK)

15:25 **TEA**

***Session 5: Grass Weed Control***

15:50 **Using the RISQ test to improve the detection of possible glyphosate resistance**

L R DAVIES (ADAS Boxworth, Cambridgeshire), C WALKER (ADAS Rosemaund, Hereford) & L V TATNELL (ADAS Boxworth, Cambridgeshire)

16:05 **Selection for resistance to mesosulfuron + iodosulfuron in *Alopecurus myosuroides* and implications for efficacy of other herbicides**

RICHARD HULL (Rothamsted Research, Hertfordshire) & STEPHEN MOSS (Stephen Moss Consulting, Hertfordshire)

16:20 **The potential of some novel methods for controlling *Alopecurus myosuroides***

STEPHEN MOSS (Stephen Moss Consulting, Hertfordshire)

16:35 **Understanding penalties associated with cultural control methods for black-grass**

ELLIE MARSHALL (AHDB Cereals & Oilseeds, Warwickshire)

16:50 **A novel approach to controlling blackgrass through soil fumigation with Dazomet**

T C K DAWKINS (ProCam UK Ltd, Cambridge)

17:05 **Does variable soil pH have an effect on the within-field distribution of *A. myosuroides*?**

HELEN METCALFE (Rothamsted Research, Hertfordshire; The University of Reading, Berkshire), ALICE E MILNE (Rothamsted Research, Hertfordshire), ALISTAIR J MURDOCH (The University of Reading, Berkshire) & JONATHAN STORKEY (Rothamsted Research, Hertfordshire)

17:20 ***Lolium multiflorum*: aspects of agro-ecology, effects on crop yield and herbicide resistance**

STEPHEN MOSS (Stephen Moss Consulting, Hertfordshire)

17:35 **END OF SESSION**

20:00 **CONFERENCE DINNER**

**THURSDAY 16 FEBRUARY 2017 – CROP PRODUCTION**

08:45 **COFFEE and REGISTRATION**

09:25 ***Session 6: Plant Nutrition***

09:30 **How can farmers choose, use, interpret, & apply soil testing for better soil health?**

STEPHEN BRIGGS (Innovation for Agriculture, Warwickshire, UK)

09:45 **The effects of in-field variations in soil water content on the seasonal and spatial dynamics of phosphate and nitrogen availability to crops**

D M BELLETT-TRAVERS (IMGeospatial, Buckinghamshire)

- 10:00 **Benefits of using coated phosphate fertiliser in enhancing grain yield of winter wheat on high pH calcareous soil**  
SYED SHAH, SARAH HOOKWAY, SARAH WILKINSON & JOHN FLETCHER (Agrii Technology Centre (AgriiFocus), Swindon)
- 10:15 **COFFEE**  
*Session 7: Plant Breeding*
- Invited Speaker*
- 10:40 **How plant breeders are changing the game (with a little help from their friends)**  
PENNY MAPLESTONE (British Society of Plant Breeders Ltd, BSPB, Ely)
- Invited Speaker*
- 11:05 **The legislative background to new plant breeding techniques**  
LOUISE BALL (Department for Environment, Food and Rural Affairs, London)
- 11:25 **Pre-Breeding in UK cereal crops – plant science into practice!**  
PHIL HOWELL (NIAB, Cambridge)
- 11:45 **Advances in faba bean breeding: from selection to prediction...**  
TOM WOOD (NIAB, Cambridge)
- 12:05 **Identification of disease resistance in the UK OREGIN Brassica biodiversity collection**  
YONG-JU HUANG (University of Hertfordshire, Hatfield), JONATHAN S WEST (Rothamsted Research, Hertfordshire), GEORGIA K MITROUSIA (University of Hertfordshire, Hatfield), THOMAS WOOD (NIAB, Cambridge) & BRUCE D L FITT (University of Hertfordshire, Hatfield)
- 12:20 **Potential identification of novel sources of resistance to pathogens in the Brassica diversity panel**  
GEORGIA K MITROUSIA, HEATHER FELL (University of Hertfordshire, Hatfield), CHRISTOPHER J RIDOUT (John Innes Centre, Norwich), HENK-JAN SCHOONBEEK (John Innes Centre, Norwich), HENRIK U STOTZ & BRUCE D L FITT (University of Hertfordshire, Hatfield)
- 12:30 **Improved understanding of novel sources of resistance against the light leaf spot pathogen, *Pyrenopeziza brassicae***  
C KARANDENI DEWAGE, H U STOTZ (University of Hertfordshire, Hatfield), R WELLS (John Innes Centre, Norwich) & B D L FITT (University of Hertfordshire, Hatfield)
- 12:40 **LUNCH**
- Session 8: Soil Management*
- 13:40 **The impact of soil management on yield, margin and working practices in long running UK field experiments**  
R STOBART, N L MORRIS & H FIELDING (NIAB, Norfolk)
- 14:00 **Summary of the effects of 3 tillage × 3 traffic systems on cereal yields over a 4 year rotation**  
R J GODWIN, P A MISIEWICZ (Harper Adams University, Shropshire) E K SMITH (AHDB Cereals & Oilseeds, Warwickshire), A MILLINGTON, D R WHITE & E DICKEN (Harper Adams University, Shropshire)
- 14:20 **Role of cover crops in reducing nitrate leaching and increasing soil organic matter**  
SYED SHAH, TIMOTHY CLARKE, SARAH HOOKWAY, SARAH WILKINSON & JOHN FLETCHER (Agrii Technology Centre (AgriiFocus), Swindon)

- 14:40 **Farmer led soil quality and cover crops research within in the Kellogg's Origins programme**  
R STOBART, N L MORRIS & H FIELDING (NIAB, Norfolk)
- 15:00 **Results from a field trial to investigate the role of cover crops in reducing runoff and soil erosion in maize**  
A MANCINI, M PAWLETT & A K DEEKS (Cranfield University)
- 15:20 **TEA**
- Session 9: Panel discussion on rotations*
- 15:45 **Benefits of long-term rotations**  
POUL HOVESEN (Salle Farms Company Ltd, Norfolk)
- 16:10 *Comments from the panel*  
DAVE ROBINSON (Frontier Agriculture Ltd, Lincoln)  
ROB HUGHES (Brown & Co, King's Lynn)  
DAVID FIRMAN (NIAB CUF, Cambridge)
- 16:25 **Discussion on rotations**
- 16:55 **CLOSING COMMENTS**
- 17:00 **CLOSE OF CONFERENCE**