

ASSOCIATION OF APPLIED BIOLOGISTS

President: Professor Trevor J Hocking BSc, PhD, FSB

with support from BCPC



A two day conference

at the Peterborough Arena,
Peterborough, UK

on 27-28 November 2012

PROGRAMME &
DELEGATE LIST



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Crop Protection in Southern Britain 2012

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PROGRAMME

10 BASIS Points have been awarded as follows: 4CP, 3E, 2AP & 1PN
BASIS form is at the Registration Desk

Tuesday 27 November - *Supporting decision-making in 2013*

09.00-09.50 REGISTRATION

09.50-10.00 INTRODUCTION

Session 1: CHAIRMAN: Jim Orson (NIAB TAG, Cambridge)

10.00-10.20 **Quantifying the benefits of spring cropping for control of *Alopecurus myosuroides* (black-grass)**

S R MOSS & R HULL (Rothamsted Research, Harpenden, Herts)

10.20-10.35 **Optimising the cultural control of black-grass (*Alopecurus myosuroides*)**

DICK NEALE (Hutchinson's, Wisbech, Cambs)

10.35-10.50 **A demonstration of the effect of winter wheat variety choice, seed rate and sowing date upon control of black-grass (*Alopecurus myosuroides*)**

MATT WARD, DICK NEALE & COLIN BUTTON (Farmacy plc, Dorrington, Lincoln)

10.50-11.05 **Use of different cultivation systems and herbicide programmes as a part of an integrated black-grass (*Alopecurus myosuroides*) control solution in winter wheat**

S SHAH, C LLOYD, S CORBETT & J SOUTHGATE (Agrii, Throws Farm Res. Centre, Essex)

11.05-11.25 **Coffee/Tea**

Session 2: CHAIRMAN: Jim Orson (NIAB TAG, Cambridge)

11.25-11.45 **Is the increasing reliance on residual herbicides for *Alopecurus myosuroides* (black-grass) control sustainable?**

R I HULL & S R MOSS (Rothamsted Research, Harpenden, Herts)

11.45-12.00 **Black-grass (*Alopecurus myosuroides*) control across a winter wheat/winter oilseed rape rotation**

D A ROBERTS & S JACKSON (Dow AgroSciences Ltd, King's Lynn, Norfolk)

12.00-12.15 **Clethodim: its potential to combat herbicide-resistant *Alopecurus myosuroides* (black-grass)**
S R MOSS (Rothamsted Research, Harpenden, Herts), C RICHES (AgHerba Consultants, Somerset) & D STORMONTH (Interfarm UK, Doddington, Cambs)

12.15-12.35 **Clethodim: Evaluation in field experiments for grass weed control in oilseed rape**
DAVID STORMONTH (Interfarm UK, Doddington, Cambs), STEPHEN MOSS (Rothamsted Research, Harpenden, Herts) & AURELIEN GUICHARD (Arysta LifeScience SAS, Nogueres, France)

12.35-12.50 **Discussion**

12.50-1.10 **Lunch (can also be eaten in the next session)**

Session 3: CHAIRMAN: COLIN RUSCOE (BCPC)

1.10-1.25 **Can T1 and T2 spray applications control *Fusarium* ear blight?**
P JENNINGS, G L THORPE (Fera, Sand Hutton, York) & A FLIND (Bayer CropScience, Cambridge)

1.25-1.40 **What did wheat fungicides deliver in 2012?**
NICK WATSON (NIAB TAG, Cambridge)

1.40-1.55 **Wheat rusts: 2012 race update and implications for 2013**
ROSEMARY BAYLES (NIAB TAG, Cambridge)

1.55-2.10 ***Cephalosporium gramineum* – an emerging threat to continuous cereal production**
NEIL D HAVIS, FIONA J BURNETT (SRUC, Edinburgh) SIMON J P OXLEY (HGCA, Stoneleigh, Warks)

2.10-2.25 **Components for disease management decisions of *Sclerotinia sclerotiorum* in winter oilseed rape**
F RITCHIE (ADAS, Preston Wynne, Herts), P GLADDERS (ADAS Boxworth, Cambs), C YOUNG (ADAS Drayton, Warks), S WATERHOUSE & W REYER (BASF plc, Cheadle Hulme, Cheshire)

2.25-2.45 **Tea/Coffee**

Session 4: CHAIRMAN: COLIN RUSCOE (BCPC)

2.45-3.00 **Nitrogen recommendations for UK cereal crops: the role of soil mineral nitrogen**
J H ORSON (NIAB TAG, Cambridge)

3.00-3.15 **Protein prediction in winter wheat**
J G D MACKAY (Jamie Mackay Agronomy, Dunmow, Essex)

3.15-3.30 **Plant growth regulators: their effects on yield of winter wheat in a very dry spring and in the absence of lodging**
DAVE ROBINSON (Crop Dynamics, Lincoln) & JIM CARSWELL (Frontier Agriculture)

3.30-3.45 **Evolution of knock-down resistance to pyrethroids in grain aphids (*Sitobion avenae*) in the UK**
STEPHEN FOSTER, DEEPA PALIWAL, JANET MARTIN & MARTIN S WILLAMSON (Rothamsted Research, Harpenden, Herts)

- 3.45-4.00 **Saddle gall midge in winter wheat**
D A ROBERTS, D HARRIS, I CORR & W CORRIGAN (Dow AgroSciences, King's Lynn, Norfolk)
- 4.00-4.15 **Presentation of BCPC Awards**
- 4.15-5.30 **Tea/Coffee – meet the presenters and start of the poster session with drinks reception (sponsored by BCPC)**
- 5.30 **End of poster session**
- 7.30 **CONFERENCE DINNER** at the Peterborough Suite, Peterborough Arena

POSTERS - CHAIRMAN: JENNIE WATSON (Bayer CropScience, Cambridge)

The use of polymer technology to improve manufactured nitrogen and phosphorus fertiliser efficiency and organic manure efficiency

ANNE NOBLE (SFP/Origin, Kansas, USA), L MURPHY (Murphy Agro Kansa, USA) & C MURRAY (Harper Adams University College, Newport, Shropshire)

An investigation into the development of monitoring and risk assessment systems for pollen beetles in winter oilseed rape

CAROLINE NICHOLLS & SAMANTHA COOK (HGCA, Stoneleigh, Warks)

Assessing oilseed rape canopies to determine applied nitrogen dose

J CUSSANS, A BARNETT (NIAB TAG, Cambridge) & T ROBINSON (University of Lincoln)

How interactions between *Phoma* stem canker pathogens are influenced by fungicides

STEVEN MOLONEY, YONG-JU HUANG, AVICE M HALL (University of Hertfordshire, Hatfield, Herts), MIKE ASHWORTH (DuPont (UK) Stevenage, Herts), PETER GLADDERS (ADAS Boxworth, Cambs) & BRUCE D L FITT (University of Hertfordshire, Hatfield, Herts)

Maturation of *Leptosphaeria maculans* and *L. biglobosa pseudothecia* and first appearance of *Phoma* leaf spots on winter oilseed rape

SITI NORDAHLIATE M SIDIQUE, YONG-JU HUANG, AVICE M HALL & BRUCE D L FITT (University of Hertfordshire, Hatfield, Herts)

Severity of phoma leaf spotting and stem canker on *Brassica napus* cultivars with *Rlm7* resistance against *Leptosphaeria maculans* in the UK

GEORGIA MITROUSIA, YONG-JU HUANG, AVICE M HALL & BRUCE D L FITT (University of Hertfordshire, Hatfield, Herts)

Weed ID APP – an APP to aid weed identification in the field

SARAH COOK (ADAS Boxworth, Cambs), SARAH MOUNTFORD-SMITH (BASF Plc, Cheadle Hulme, Cheshire) & DENISE GINSBURG (ADAS Boxworth, Cambs)

Integrated control of strawberry powdery mildew epidemics including the use of a prediction system

AVICE HALL & KHIN HSU HSU SAN (University of Hertfordshire, Hatfield, Herts)

Study of the role of silicon in the control of strawberry powdery mildew (*Podosphaera aphanis*) in a field trial

K FATEMA, A HALL & D C NASEBY (University of Hertfordshire, Hatfield, Herts)

Development and maturation of the chasmothecia of *Podosphaera aphanis* on strawberry

XIAOLEI JIN & AVICE M HALL, YONGJU HUANG & BRUCE D L FITT (University of Hertfordshire, Hatfield, Herts)

Control of fruit rots and foliar diseases in soft fruit using a new fungicide product bases on fluopyram and trifloxystrobin

R H MEREDITH (Bayer CropScience, Cambridge)

Fungal pathogens of yams (*Dioscorea rotundata* Poir.) during storage in Nigeria

T E SANGOYOMI (Bowen University, Nigeria) R ASIEDU (IITA) & E J A EKPO (University of Ibadan, Nigeria)

Wednesday 28th November - *Strategic Issues*

Session 5: CHAIRMAN: Jim Orson (NIAB TAG, Cambridge)

9.00-9.25 **The impact of changes to agronomic practice on farm yields trends in wheat**
S KNIGHT, S KIGHTLEY (NIAB TAG, Cambridge), I J BINGHAM, S HOAD (SRUC, Edinburgh), H PHILPOTT (NIAB TAG, Cambridge) & B LANG (Dept of Land Economy, University of Cambridge)

9.25-9.50 **Are agronomic practices favouring certain brome species?**
SARAH COOK (ADAS Boxworth, Cambs), RICHARD HULL (Rothamsted Research, Harpenden, Herts), DENISE GINSBURG (ADAS Boxworth, Cambs) & STEPHEN MOSS (Rothamsted Research, Harpenden, Herts)

9.50-10.15 **Balancing fungicide performance on disease control and physiological benefits against resistance risks**
W S CLARK (NIAB TAG, Cambridge)

10.15-10.40 **Wheat disease risk forecasts by CropMonitor™: in-season updates and risk forecasts via the web and mobile devices**
M C TAYLOR (Fera, York)

10.40-11.00 **Retardation of winter barley leaf growth by alkaline materials: potential use in canopy management?**
PETER S KETTLEWELL, ANNIS RICHARDSON & MICHAEL W SNELSON (Harper Adams University College, Newport, Shropshire)

11.00-11.30 **Coffee/tea**

Session 6: CHAIRMAN: NICK MYERS (AIC)

11.30-11.55 **The impact of changes to agronomic practice on farm yields trends in oilseed rape**
S J KIGHTLEY, S M KNIGHT (NIAB TAG, Cambridge), I J BINGHAM (SRUC, Edinburgh), B LANG (Dept of Land Economy, University of Cambridge) & H L PHILPOTT (NIAB TAG, Cambridge)

11.55-12.20 **Oilseed rape: the impact of rotational intensity on crop performance**
R M STOBART (NIAB TAG, Wymondham, Norfolk)

- 12.20-12.45 **The effect of row width and plant population on the yield of oilseed rape**
SARAH COOK, DENISE GINSBURG (ADAS Boxworth, Cambs) & PETE BERRY
(ADAS, Malton, Yorks)
- 12.45-1.45 **Lunch**
- Session 7:** CHAIRMAN: ANDREW WATSON (AICC)
- 1.45-2.10 **Rothamsted trap networks are now a ‘BBSRC National Capability’**
RICHARD HARRINGTON, MARK S TAYLOR, CHRIS R SHORTFALL,
LYNDA ALDERSON, MARK MALLOT & PAUL J VERRIER (Rothamsted Research,
Harpenden, Herts)
- 2.10-2.35 *Invited speaker*
Spray drift and buffer zones: a review’
P C H MILLER (Silsoe Spray Application Unit, Silsoe, Beds)
- 2.35-2.55 **Chlorpyrifos; efficacy of chlorpyrifos through air induction nozzles**
DILWYN HARRIS & ANNE THOMPSON (Dow AgroSciences, King’s Lynn, Norfolk)
- 2.55-3.20 **The effect of climate on the efficacy of thiamethoxam with tefluthrin seed treatment against
aphids and virus yellows in sugar beet**
MICHAEL F TAIT (Syngenta Crop Protection, Cambridge), MARK STEVENS
(Rothamsted Research - Broom’s Barn, Bury St Edmunds, Suffolk) & ALAN M DEWAR
(Dewar Crop Protection, Bury St Edmunds, Suffolk)
- 3.20 **Coffee/tea and conference close**