## ASSOCIATION OF APPLIED BIOLOGISTS
### FORWARD CONFERENCE PROGRAMME

### 2011

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
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<tr>
<td>7 April</td>
<td><strong>Advances in Cider Technology</strong></td>
<td>Pershore College, Worcs (AM&amp;B Group)</td>
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<tr>
<td>14-15 April</td>
<td><strong>Systems Approaches to Crop Improvement</strong></td>
<td>Rothamsted Research, Harpenden, Herts (PP&amp;CI Group)</td>
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<tr>
<td>27-28 April</td>
<td><strong>Vegetation Management</strong></td>
<td>Sheffield Hallam University (CATE Group)</td>
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<tr>
<td>15-16 June</td>
<td><strong>Agricultural Ecology Research: its role in delivering sustainable farm systems</strong></td>
<td>West Park Centre, Dundee (CATE Group, BES, SCRI)</td>
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<tr>
<td>28-29 June</td>
<td><strong>GM Crops: From Basic Research to Application</strong></td>
<td>Rothamsted Research, Harpenden, Herts (PP&amp;CI Group)</td>
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<tr>
<td>17-18 August</td>
<td><strong>Keeping Pesticides out of Water</strong></td>
<td>Wageningen University, the Netherlands (Pest Appl Group)</td>
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<tr>
<td>18-22 September</td>
<td><strong>Integrated Control in Protected Crops - Temperate Climate</strong></td>
<td>Norton Park Hotel, Sutton Scotney, Hants (IOBC Working Group)</td>
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<tr>
<td>21-23 September</td>
<td><strong>Biomass and Energy Crops IV</strong></td>
<td>University of Illinois, USA (AAB Multidisciplinary/University of Illinois)</td>
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<tr>
<td>12 October</td>
<td><strong>New technologies for early pest and disease detection</strong></td>
<td>The Olde Barn Hotel, Marston, Lincs (AM&amp;B Group)</td>
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<td>29 November</td>
<td><strong>Biopesticides conference</strong></td>
<td>The Olde Barn Hotel, Marston, Lincs (Biocontrol Group)</td>
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<tr>
<td>30 November</td>
<td><strong>Advances in Biological Control</strong></td>
<td>The Olde Barn Hotel, Marston, Lincs (Biocontrol Group)</td>
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<tr>
<td>13 December</td>
<td><strong>Advances in Nematology</strong></td>
<td>Linnean Society of London (Nematology Group)</td>
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<tr>
<td>10-12 January</td>
<td><strong>International Advances in Pesticide Application</strong></td>
<td>Hof Wageningen, the Netherlands (Pest Appl Group)</td>
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<tr>
<td>28-30 March</td>
<td><strong>Flowering and Food Security</strong></td>
<td>The University of Reading, Berks (CATE Group)</td>
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### 2012

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Further information about the AAB and online booking for these conferences is available on the AAB website.

Association of Applied Biologists  
Warwick Enterprise Park  
Wellesbourne, Warwick CV35 9EF, UK  
Registered Charity No. 275655  
Tel: +44 (0) 2476 575195; Fax: +44 (0) 1789 470234  
Email rebecca@aab.org.uk  
http://www.aab.org.uk

### A two day conference

at Rothamsted Research, Harpenden, UK

on 28-29 June 2011

### PROVISIONAL PROGRAMME & BOOKING FORM

**GM Crops: From Basic Research to Application**

Photograph reproduced by kind permission of Rothamsted VCU
GM Crops: From Basic Research to Application

to be held at Rothamsted Research, Harpenden, UK

on 28-29 June 2011

PROVISIONAL PROGRAMME
BASIS Points awarded 12 (3CP, 3E, 2AP, 3PD, 1HS)

TUESDAY 28 JUNE 2011

09.00-10.00  REGISTRATION AND COFFEE

10.00-10.40  Keynote Presentation

Fifteen years and one billion hectares later: what have we learned about GM crops?

PROF. MAURICE MOLONEY (Director Rothamsted Research, Harpenden, UK)

Session 1: Target trait modifications

Chair: PROF. NIGEL HALFORD (Rothamsted Research, Harpenden, UK)

10.40-11.10  Invited Speaker

Rational metabolic engineering of transgenic plants for omega-3 long chain polyunsaturated fatty acid biosynthesis

PROF. JONATHAN NAPIER (Rothamsted Research, Harpenden, UK)

11.10-11.40  COFFEE

11.40-12.10  Invited Speaker

Manipulating lignin for bioenergy applications

PROF. CLAIRE HALPIN (Dundee University, UK)

12.10-12.40  Invited Speaker

Transgenic wheat as proof of principle to demonstrate role of cell wall genes influencing wheat flour properties

R A C MITCHELL, J FREEMAN, A LOVEGROVE, T K PELLNY, M D WILKINSON & P R SHEWRY (Rothamsted Research, Harpenden, UK)

12.40-13.10  Invited Speaker

Transgenically enhanced marine pico-algae: the feed and fuel of the future

PROF. JONATHAN GRESSEL (TransAlgae Ltd, Rehovot, Israel)

13.10-14.00  LUNCH

14.00-14.30  The role of gibberellin in determining wheat grain size and quality

DR SIMON VAUGHAN (Rothamsted Research, Harpenden, UK)

14.30-15.00  Manipulating Rab GTPase activity in wheat to improve gluten quality for breadmaking

A M TYLER (University of Nottingham, Loughborough, UK), M POOLE, D G BHANDARI (Campden BRI, Chipping Campden, Glos UK), J A NAPIER, H D JONES (Rothamsted Research, Harpenden, Herts, UK), C LU & G W LYCETT (University of Nottingham, Loughborough, UK)

15.00-15.30  Transgenic wheat emitting aphid alarm pheromone, (E)-ß-farnesene

DR TOBY BRUCE (Rothamsted Research, Harpenden, UK)

15.30-16.00  DREB1A driven by constitutive and inducible promoters: Field evaluation of drought tolerance in transgenic wheat lines

DR CAROLINA SAINT PIERRE (CIMMYT, El Batan, Mexico)

16.00-16.30  TEA

Session 2: Technology platforms

Chair: PROF. HUW JONES (Rothamsted Research, Harpenden, UK)

16.30-17.00  An Ac/Ds transposon tagging system in wheat

Dr ALISON HUTTLY (Rothamsted Research, Harpenden, UK)

17.00-17.30  Invited Speaker

Brachypodium T-DNA collection and its use for functional genomics research

DR PHILIPPE VAIN (John Innes Centre, Norwich, UK)

17.30-18.00  Promoter validation for transgene expression in wheat: a resource for vector design

DR JACKIE FREEMAN & CAROLINE SPARKS (Rothamsted Research, Harpenden, UK)

18.00-19.30  WINE RECEPTION AND POSTERS

19.30  DINNER FOR INVITED SPEAKERS AND GUESTS

WEDNESDAY 29 JUNE 2011

Session 2: Technology platforms – cont.

08.30-09.00  Advances and remaining challenges in the transformation of barley and wheat

W HARWOOD, E MEDVECKA, D RATHORE, J BARLETT & M SMEDLEY (John Innes Centre, Norwich, UK)
Wheat genetic engineering in China, current status and challenges to commercialization
L Xia Youzhi MA, Y HE (Institute of Crop Sciences, CAAS, Beijing, China) & H JONES (Rothamsted Research, Harpenden, Herts, UK)

Brassica Transformation Resources
P A C Sparrow, M Smedley & W Harwood (John Innes Centre, Norwich, UK)

TBC
PROF. JIZENG JIA (Chinese Academy of Agricultural Sciences, Beijing, China)

COFFEE

Session 3: Regulation and Risk Assessment of GM Crops
Chair: PROF. CLAIRE HALPIN (Dundee University, UK)

Invited Speaker
GM risk assessment in the EU: current perspective
H V Davies (The James Hutton Institute, Invergowrie, Dundee, UK) & H A Kuiper (RIKILT Institute of Food Safety, Wageningen University and Research Centre, Wageningen, The Netherlands)

GM crops – navigating the UK and EU regulatory process
DR Louise Ball (Defra, London, UK)

Guidance on the environmental risk assessment of herbicide tolerant GM plants by the European Food Safety Authority
J Sweet (Sweet Environmental Consultants, Cambridge UK) & D Bartsch (Federal Office of Consumer Protection and Food Safety, Berlin, Germany)

Lunch

Developing a framework to assess potential changes in fitness of GM plants: do stress tolerant plants need a new paradigm?
Prof. Rosie Hails (CEH-Wallingford, Oxon, UK)

Capitalising on deliberate, accidental and GM driven environmental change caused by crop modification
O G G Knox*, R Walker, E Booth (SAC, Edinburgh, UK) A S Crossan (Sydney University, Sydney, NSW, Australia) & G Vadakatu (CSIRO Entomology, Adelaide, SA, Australia)

Invited Speaker
Estimating the effects of Bt-maize pollen on non-target Lepidoptera using a mathematical model of exposure
J Perry (Oaklands Barn, Norfolk, UK)

Keynote Presentation
GM crops: where do we go from here?
ProF. Tina Barsby (Director, NIAB, Cambridge, UK)

POSTERS

Transgenic Potential of -Dioscorea rotundata, Using Agrobacterium-Mediated Genetic Transformation
M D Quain (CSIR-Crops Research Institute, Kumasi, Ghana), M Egnin, B BEY, & C BONSI (Biotechnology Research Tuskegee University Alabama, USA)

pBRACT – Crop Transformation Vectors
Mr Mark A Smedley (John Innes Centre, Norwich UK)

Technology Breakthrough - high efficiency Agrobacterium transformation of wheat
Emma Wallington (NIAB, Cambridge, UK)

Apoeoe; a rapid-cycling wheat for functional genomics
Angela Doherty (Rothamsted Research, Harpenden, UK)

Putative genetic instability of a T-DNA insertion site in the genome of Arabidopsis thaliana under stress conditions
Dr Mihael C Ichim (Stejarul Research Centre, Romania)

Temporal and spatial transgene expression using Heat-shock promoter in transgenic wheat
Dr Jackie Freeman (Rothamsted Research, Harpenden, UK)

Unravelling the Relationship between Acrylamide Formation in Potato and Concentrations of Sugars, Asparagine and Other Amino acids
N Muttucumaru, M Parry, N Halford (Rothamsted Research, Harpenden Herts, UK) D Mottram & S Elmore (University of Reading, UK)

EFSA’s work on the safety assessment of genetically modified organisms
Dr Yann Devos et al. (European Food Standards Agency, Parma, Italy)

EFSA’s work on the safety assessment of genetically modified animals
Dr Yann Devos et al. (European Food Standards Agency, Parma, Italy)

A serine/threonine kinase gene derived from Thinopyrum intermedium confers wheat resistance to BYDV infection
Z Zhang, L Chen, X Wang, H Xu, X Zhu, L Gao, Z Xin (Chinese Academy of Agricultural Sciences, Beijing, China)

Genetic engineering of energy crops to improve the conversion of lignocellulosic biomass into biofuels
M Bosch (IBERS, Aberystwyth University, UK)
ASSOCIATION OF APPLIED BIOLOGISTS
President: Professor Trevor J Hocking, BSc, PhD, FSB

GM Crops:
From Basic Research to Application
at Rothamsted Research, Harpenden, Herts, UK
on 28-29 June 2011

BOOKING FORM

SURNAME: .......................................................... INITIALS: ..........................................................

TITLE (Prof/De/Mr/Mrs/Ms or other): .............................................

PREFERRED NAME FOR BADGING: ...........................................................................................................

STATUS (Delete as appropriate):  AAB Member/Retired Member/
AAB Student Member/
Non-Member*/Student Non-Member*

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NOTES
1. STUDENTS. It is the Association’s policy to grant reduced registration fees to students. This provision is sub-
ject to space being available and booking forms must be accompanied by a signed statement from the student’s
supervisor attesting that he/she is a full-time student. If students would like to apply for an AAB Student Travel
Grant (travel within the UK only) please send your request in writing to the AAB Office. Forms are available on
the AAB Web Page: http://www.aab.org.uk
2. Conferences of the Association are private but visitors are most welcome. The publishing of reports of papers
given at these conferences should only be done with the permission of the organiser and the authors of the papers
concerned, who may require to see proofs before this permission is given.
3. The Association would like to send you details of relevant conferences in the future. Please tick box if you do
not want to receive these details □
4. Please note that photographs are sometimes taken at AAB conferences which we publish in our Newsletter to
members.

*AAB full membership for 2011 is £55.00 and £20.00 for students
For further details on membership contact the AAB Office