



**International Organisation for Biological and Integrated
Control of Noxious Animals and Plants (IOBC)**

West Palaearctic Regional Section (WPRS)

Organisation Internationale de Lutte Biologique et Intégrée contre les Animaux et les Plantes Nuisibles (OILB)

Section Régionale Ouest Paléarctique (SROP)

Final Announcement

IOBC/WPRS Working Group

“Landscape management for functional biodiversity”

Meeting 29 June - 1 July 2010, Cambridge, England

PROGRAMME AND BOOKING FORM ARE NOW AVAILABLE

ORGANIZERS

John Holland
Bärbel Gerowitt
Association of Applied Biologists

SCIENTIFIC ADVISORY BOARD

Barbara Ekbohm
Maarten van Helden
Hans-Michael Poehling
Walter Rossing
Felix Waeckers

Conference dates : 29 June - 1 July 2010

Registration, welcome drink and installation of posters are scheduled for Monday 28th June evening (8.30 p.m.). Tuesday 29th, Wednesday 30th and Thursday 1st are days for oral presentations, poster sessions and discussions. On Wednesday 30th afternoon we will visit local projects to see landscape management for functional biodiversity in action. This will included a visit to the Game & Wildlife Conservation Trust Farm at Loddington. The social programme will include a conference dinner and punting on the river Cam.

AIMS OF THE MEETING AND SCIENTIFIC PROGRAMME

The dynamics and impacts of pests, diseases and weeds in agricultural crops depend on the landscape matrix, both due to effects of the matrix on dispersal abilities for these pest organisms, and due to the effects of landscape matrix on natural enemies. Functional biodiversity - catering to the natural control function in agricultural landscapes - provides the *raison d'être* for the IOBC working group on Landscape Management for Functional Biodiversity. The challenges of climate change and food security have forced food security up the EU political agenda. This may pose a threat to (functional) biodiversity as land once again may become more intensively managed and the area of uncropped land diminishes. The loss of set-aside is the start of this



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process. Farmland biodiversity is under threat with some taxa continuing to decline despite the widespread implementation of agri-environment schemes. In the future uncropped land may have to become more multifunctional and provide a greater range of resources.

There remain many scientific challenges of which understanding dispersal within fields to landscapes is key if we are to maximise ecosystem services. New technologies are constantly being developed of which genetic markers offer the best opportunity to track beneficial or detrimental biological agents. Such empirical data will help populate whole system models. Climate change may also bring future challenges as weeds and pathogens spread to new areas and landscapes in which biocontrol may not be fully functioning. The landscape may play an important role in mitigating the impact of such change. The IOBC/WPRS Working Group "Landscape management for functional biodiversity" is interested in attracting a broader range of disciplines, there is currently a large bias towards entomologists, but if we are to develop more ecosystem-based approaches to crop management then an interdisciplinary approach will be required. This should include economists because only by demonstrating the economic viability of utilising functional biodiversity will farmers be persuaded to adopt appropriate land management practices.

The scientific programme will feature two and a half days of presentations, posters and discussions and half a day of visits to local projects (programme details will be provided later).

For further registration details see (<http://www.iobc-wprs.org/events/index.html>).



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GENERAL INFORMATION

Conference Site

The Symposium will be held at the Holiday Inn, Lakeview, Bridge Road, Impington, Cambridge CB24 9PH, UK. The site is located north of the city centre and it is well served by public transport (Train, Bus, Tram and Plane (Stansted is the closest airport)), see below.

Registration Fee (deadline June 21st 2010)

Please note that accommodation is limited and this is graduation week in Cambridge therefore booking early is advisable.

The registration fee will be **£290.00** for IOBC Members (£340 for non Members) and it includes:

- Admission to scientific sessions
- Abstract book
- Welcome Drink
- Lunches and coffee-breaks on all 3 days and dinner on 29 and 30 June
- Wednesday Excursion - Visit to Game & Wildlife Conservation Trust demonstration farm at Loddington

The registration fee including all of the above, plus accommodation on 29 and 30 June at the Holiday Inn, is **£430.00** for IOBC Members (**£480** for non Members) and, for those delegates wishing to arrive on Monday 28 June, the registration fee will be **£530.00** for IOBC Members (£580 for non Members), which will include all of the above + dinner and accommodation for that night. Extra nights' accommodation is available at £99.50 per night. There are a limited number of subsidised places for students at **£250.00**, which will include the conference registration fee and 2 nights' accommodation. Please contact John Holland (jholland@gwct.org.uk) for further details.

Payment

Payment can be made securely online at <http://www.aab.org.uk>. Click on CONFERENCES, then FUTURE CONFERENCES, then the IOBC June 2010 conference. At the top of the page, you will see a button REGISTER ONLINE. Click here for secure online payment via Worldpay.

Other payment methods include cheque, credit card or bank transfer (see below).



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Participants are reminded that money transfers are subject to bank charges which will be deducted before arrival at the Congress Secretariat; it is therefore essential that such transfers of money should include any surcharge. Otherwise these deductions will be payable at the Registration Desk on arrival. Please attach a copy of the payment advice to the Application Form.

All data supplied by participants will be processed and held on computer by the Congress Secretariat for the sole purpose conference administration.

Applications may be cancelled up until 31 May, 2010, in which case a partial refund will be made. It **will not be possible** to offer any refunds if details of cancellation are received after this date.



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PAYMENT METHODS

Payment via cheque:

Please make cheques payable to: ***Association of Applied Biologists***
Cheques must be in Sterling, Sterling Bank Draft (negotiable in the UK),
International Money Order

Payment via Bank transfer:

Bank Name: Barclays Bank plc
Account Name: Association of Applied Biologists Treasurers Account
Sort Code: 20-48-08
Account No. 20120731
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£'s sterling only by Delta, Maestro, Mastercard, VISA (not AMEX)

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PROVISIONAL PROGRAMME

TUESDAY 29 JUNE 2010

08.30 CONFERENCE REGISTRATION & COFFEE

09.00 Opening Address - Introduction

09.30 *Keynote address*

Landscape moderations of biodiversity patterns and processes

TEJA TSCHARNTKE (University of Goettingen, Germany)

Session 1: "Landscape features and elements of the food-chain"

Session Organiser: FELIX WÄCKERS (The Lancaster Environment Centre, UK)

10.00 What happens to the predator *Atheta coriaria* when inundatively released into the field for biological control of cabbage root fly?

JUDE BENNISON (ADAS Boxworth, UK)

10.20 Arthropod biodiversity monitoring using RBA techniques in viticulture

MAARTEN VAN HELDEN (ENITA Bordeaux, France)

10.40 Different habitats in arable land and *Fagopyrum esculentum*: their influence on aphid antagonists

LISA EGGENSCHWILER (Agroscope Reckenholz-Tänikon Research Station, Switzerland)

11.00 COFFEE

Session 2: "Landscapes and plants"

Session Organiser: WALTER ROSSING (Wageningen University, Netherlands)

11.30 Engineering arable landscapes to balance the pros and cons of weeds

GRAHAM BEGG (Scottish Crop Research Institute, Invergowrie, UK)

11.50 Response of the weed flora on landscape factors in a large scale agricultural region

MARIA JOHN (Universität Rostock Agrar- und Umweltwissenschaftliche Fakultät, Institut für Landnutzung Phytomedizin, Rostock, Germany)



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12.10 Managing weed seed predation in arable fields

PAULA WESTERMAN (Institute for Land Use, Rostock, Germany)

12.30 LUNCH

Session 3: "Can IPM profit from landscape features?"

Session Organiser: JOHN HOLLAND (Game and Wildlife Conservation Trust, UK)

**14.00 Land use intensity drives the landscape effect on host-parasitoid
interactions in brassica crops**

MATTIAS JONSSON (Bio-Protection Research Centre, Lincoln, New Zealand)

**14.20 Carabids and Syrphids beneficials: diversity, effectiveness as biocontrol
agents and habitat potentials - a case study in french cereal crops**

CHARLOTTE DOR (ARVALIS - Institut du vegetal, Boigneville, France)

**14.40 Integrated Pest management at the landscape Scale: Tracing the Tale of
Cotton in the San Joaquin Valley of Central California**

PETER B GOODELL (University of California, Parlier, California, USA)

**15.00 The influence of crop management and landscape diversity on insect pest
attacks**

ADRIEN RUSCH (UMR Agronomie, Thiverval-Grignon, France)

**15.20 May ecosystem sustainability be influenced by carnivorous arthropods -
inhabitants of ground surface?**

WLADIMIR B TSHERNYSHEV (Faculty of Biology, Moscow M.V., Lomonosov
State University, Russia)

15.40 TEA

Session 4: "Do models help?"

Session Organiser: WOPKE VAN DER WERFF (Department of Plant Sciences,
Wageningen University, Netherlands)

16.10 Ground beetle dispersal: confronting models to data

BAS ALLEMA (Wageningen University, Droevendaalsesteeg, Netherlands)



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16.30 Predicting the time to colonization of the parasitoid *Diadegma semiclausum*: the importance of the shape of spatial dispersal kernels for biological control

F J J A BIANCHI (CSIRO Entomology, Indooroopilly, Queensland, Australia)

16.50 Spatial distribution of biological pest control in agricultural landscapes – empirical data, modelling, model estimation and economic valuation of an ecosystem service

WOPKE VAN DER WERF (Department of Plant Sciences, Wageningen University, Netherlands)

WEDNESDAY 30 JUNE 2010

08.30 REGISTRATION

Session 5: "ENDURE: Integrated Pest Management at the landscape level: measuring and modelling"

Session Organisers: ANDREW W FERGUSON¹ & C LAVIGNE² *Session chair:* Ian Denholm¹ (¹Rothamsted Research, Harpenden, UK; ²INRA, UR Plantes et Systèmes de culture Horticoles, F-84000 Avignon, France)

09.00 Landscape studies for conservation biological control research: status and future needs. A meta-review from the EU NoE project ENDURE

ANDREW W FERGUSON (PIE, Rothamsted Research, Harpenden, UK)

09.20 A literature review on impacts of landscapes characteristics on densities of pests and on their regulation by natural enemies

A VERES (SZIE, Plant Protection Institute, Godollo, Hungary)

09.40 Parameter harmonisation for calculating landscape configuration effects on weed communities

C MOONEN (Land Lab, Scuola Superiore Sant'Anna, Pisa, Italy)

10.00 Maize weed communities composition in a highly anthropized landscape: which responding variables and landscape descriptors fit better?

STEFANO CARLESI (Land Lab, Scuola Superiore Sant'Anna, Pisa, Italy)

10.20 Spatial ecology of *Cosmopolites sordidus* in banana fields Landscapes

FABRICE VINATIER (CIRAD-PRAM-UPR Systemes bananes et ananas, Lamentin, Martinique, France)



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10.40 **Posters**

10.45 COFFEE

11.15 Position paper: **Landscape and IPM: measuring and modelling**
S. PETIT (INRA, UMR Biologie et Gestion des Adventices, Dijon, France)

11.35 DISCUSSION: Chair PHILIPPE TIXIER

12.20 LUNCH

14.00 FIELD TRIP TO GAME & WILDLIFE CONSERVATION TRUST
DEMONSTRATION FARM AT LODDINGTON

20.00 CONFERENCE DINNER

THURSDAY 1 JULY 2010

08.30 REGISTRATION

Session 6: "The contribution of uncropped land"

Session Organiser: MARTEN VAN HELDEN (UMR Santé Végétale 1065,
INRA/ENITA de Bordeaux, Bordeaux, France)

09.00 **Perennial field margins with combined agronomical and ecological benefits
for vegetable rotation schemes**
DAVID GEORGE (Lancaster Environment Centre, Lancaster University, UK)

9.20 **The Farm4Bio project: investigating the relationship between uncropped land
and beneficial invertebrates**
JOHN HOLLAND (Game and Wildlife Conservation Trust, Hampshire, UK)

9.40 **Flowering field margins: optimal composition for and effect on natural
enemies of insect pests**
PAUL VAN RIJN (University of Amsterdam, Amsterdam, Netherlands)

10.00 COFFEE AND POSTER SESSION



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Session 7: "How can landscape management be supported?"

Session Organiser: BÄRBEL GEROWITT (Universität Rostock Agrar- und Umweltwissenschaftliche Fakultät, Institut für Landnutzung Phytomedizin, Rostock, Germany)

10.50 Multi-function agricultural biodiversity and agri-environmental schemes in Australian agricultural landscapes

GEOFF M GURR (EH Graham Center for Agricultural Innovation, Orange, Australia)

11.10 The Mainstreaming of Biodiversity and conservation stewardship at the Yalumba Wine Company

CECIL CAMILLERI (The Yalumba Wine Company, Angaston, Australia)

11.30 The role of "low-input" agri-environmental schemes in the enhancement of functional biodiversity of Hungarian arable fields

FERENC SAMU (Plant Protection Institute, Hungarian Academy of Sciences, Budapest, Hungary)

11.50 Biodiversity of different types of south Moravian (CZ) vineyards

MILAN HLUCHY (Biocont Laboratory Spol.SR.O, Smahova, Czech Republic)

12.10 Enhancing functional biodiversity of vineyards by converting towards sustainable management: the European cross-border cooperation project ECOWIN.

BERNARD KROMP (Bio Forschung, Rinnboeckstr, Austria)

12.30 LUNCH & DEPART

POSTERS

Analysis of interactions between landscape and natural pear psylla antagonists - Results of a study at the German fruit growing region "Lake Constance"

BURKHARD GOLLA (Federal Research Centre for Cultivated Plants, Kleinmachnow, Germany) & MARTIN TRAUTMANN (KOB, Competence for Fruit Growing, Lake Constance, Bavendorf, Germany)

Agroecosystem management and spatial organization of arthropod communities

VALENTINA AFONINA (*Department of Entomology, Moscow State University, Russia*)



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Innovative methods for measuring *Orius* spp. abundance at a landscape scale

ANDREA VERES, FERENC TOTH (SZIE, Plant Protection Institute, Godollo, Hungary), KINGA FETYKO (Hungarian Academy of Science, Plant Protection Institute, Hungary), LEVAYNE SZILVIA OROSZ (Central Agricultural Office, Budapest, Hungary), ATTILA KOTAN (SZIE, Plant Protection Institute, Godollo, Hungary)

Identification of resource bottlenecks in agro-ecosystems, and quantifying their impact on biological pest control

MARK RAMSDEN (Lancaster Environment Centre, Lancaster University, UK)

Measuring the impact of crop management on crop diseases, weeds and insect pests at the landscape scale

MARIE GOSME (UM211 Agron., INRA-Agro Paris Tech, Thiverval-Grignon, France)

Farming practices and ecosystem services

GEORG ANDERSSON (Dept of Environmental Sciences, University of Lund, Sweden)

Management of habitat diversity on arable farmland to maximise control of crop pests by communities of beneficial organisms

MARTIN TORRANCE (PIE, Rothamsted Research, Harpenden, UK)

Wind born pollen effect on arthropod populations in agricultural fields in the northern Negev, Israel

EITAN AMIEL (Inst. for Desert Research, Ben Gurion University of the Negev, Israel)



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Accommodation

Accommodation has been arranged at the Holiday Inn, just north of Cambridge. Other hotels are available in Cambridge, but participants are advised to book early as this is graduation week, and hotels will be more expensive than usual.

TOURIST INFORMATION

The City of Cambridge and the surrounding landscape

(<http://www.visitcambridge.org>)

How to get to Cambridge

Situated in the heart of East Anglia, Cambridge is easily accessible by air, road and rail. The railway station is about 15 minutes walk from the city centre and there are always plenty of taxis and buses available. If coming by car, it's a good idea to take advantage of one of the five Park and Ride sites situated around the edge of the city - park for free and hop on a bus into town. Details available on: <http://www.visitcambridge.org/VisitCambridge/HowToGetHere.aspx>

By air: There is a regular train and coach service from London Stansted Airport, which is a 20 minute drive away (there is a direct train which takes around $\frac{1}{2}$ hour every hour from the airport to Cambridge, which costs just over £11.00 for an offpeak return). London Heathrow and Gatwick Airports are serviced by Regular National Express Coaches.

By rail: Train service is available through Cambridge Railway Station, located in the city centre.

By road: From the South & from London, Cambridge is a short trip up the M11 motorway. From the north, the A1 and M1 link to the A14 dual carriageway straight to the city, and from the east and west, the A14 again takes you to Cambridge.

How to get to the conference site:

By car: from the south leave the M11 at junction 14 & follow A14 to Newmarket. Take the B1049 to Histon & hotel is on the right. From A1 south, take junction 14. Take A14 towards Harwich leave at Jctn 32, B104. Holiday Inn Hotel is on the right.

Taxi transport from the airport (Stansted) to the Holiday Inn, Cambridge would cost about £45.00.

Dress/Climate

The average temperature in June/July ranges from 23°C during the day to 14°C at night, with normally very pleasant conditions.