



**IOBC / WPRS
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PROFILE

**Internal Newsletter issued by the Publication Commission for the
IOBC/wprs Council and Executive Committee**

<http://www.iobc-wprs.org>

**International Organization for Biological and Integrated Control of
Noxious Animals and Plants – West Palearctic Regional Section**

ISSUE Nr. 41

August 2006

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The Presidents Page

Regulations for import and release of biological control agents differ between IOBC/WPRS countries and some have yet to establish any regulatory framework. Obligations in international laws and agreements, such as the IPPC/FAO code of conduct for import and release of biological control agents, the EPPO guidelines on import and release of invertebrate biological control agents and the OECD guidance document on regulation of biological control agents all recommend a harmonization of regulation between countries. In many countries, introductions of biological control agents are administered under regulations which were established for other purposes, such as plant quarantine, nature conservation or genetically modified plants. One consequence of guidelines developed under different regulations and for different purposes is that biocontrol companies have to prepare separate dossiers with varying information to apply for a release licence in different countries, often within the same geographic and climatic region, thus increasing costs and delaying the introduction of new agents. The option of having 'no regulation' of biocontrol agents, as is sometimes suggested by a few biocontrol industry representatives is not a realistic proposal, as governments within the IOBC/WPRS have signed the Rio Convention on Biodiversity, and are also members of FAO, EPPO and OECD which have published guidelines and recommendations for the regulation of biocontrol agents. Rejection of these international agreements would invite serious criticism by governments, the public and conservation agencies, and thus undermine the hard-earned credibility and successes of biocontrol.

The question therefore is not *whether* to regulate biocontrol agents, but *how* to regulate. There are examples of national and international regulation that can have a negative effect on the implementation of biocontrol, such as the EU regulation of micro-organisms, which needs to be modified as soon as possible. This regulation has proved to be unsuitable for biocontrol agents and has been criticized for a long time by both industry and scientists. The current challenge is to find a reasonable balance between over-regulation, with its negative impacts (high costs, slow response), and an ineffective system that would not identify risky agents and thus fail to prevent such introductions.

Regulators with little or no familiarity of biocontrol are often unaware that the industry consists mainly of small companies that cannot afford the high costs of preparing risk assessment dossiers or the delays in marketing new agents. The only way to increase awareness of this situation is to encourage dialogue between industry and regulators at an early stage of product development and dossier preparation. Another serious problem is that most governments do not have regulators with any experience of biological control or risk assessment for such agents, nor do they have access to relevant expertise in their country.

What role could IOBC/WPRS play in the future regulation of biocontrol agents? Producers and distributors of biocontrol agents were concerned when the international

guidance documents (FAO, EPPO, OECD) were released, and, as a consequence, the International Biocontrol Manufacturers Association (IBMA) approached the Executive Committee of IOBC/WPRS, suggesting that the IOBC/WPRS should bring forward proposals to harmonize regulation in the WPRS area. After discussions between IBMA and Council members of the IOBC/WPRS, the Commission on 'Harmonized Regulation of Invertebrate Biological Control Agents' (CHIBCA) was established in September 2003. The Commission organized in 2004 a workshop that was attended by 30 regulators, scientists and industry representatives from 16 IOBC/WPRS member countries. The outcome of this meeting is a document that amalgamates all previous guidelines and gives more detailed information on how to prepare dossiers for non-native and native agents (BIGLER *et al.* 2005). An EU policy support project entitled 'Regulation of Biological Control Agents' (REBECA) that is funded by the EU in 2006 and 2007 is presently developing proposals on how regulation of biocontrol agents, semiochemicals and botanicals could be improved in the EU. At the first sub-group meeting in April 2006 in Wageningen, different balanced regulation procedures for invertebrate biocontrol agents were suggested and the possible role of international non-government organizations, like the EPPO and the IOBC, was discussed. The IOBC/WPRS Commission (or another body of WPRS) could for example act as a 'Committee of experts' that would be consulted by national regulators seeking advice on risk assessment methodologies and interpretation of data in dossiers. This expert committee could up-date and improve the 'Positive List' which was first developed by EPPO, comprising 'safe agents' that had been widely used in the region with no reports of negative impacts. This committee and its remit could be established and agreed in collaboration with EPPO or other international organizations and governments. It is clear that the regulatory systems for biological control require standardization across the IOBC/WPRS area, and that at the EU level. The IOBC/WPRS needs to consider what role it could play in these developments. Should we offer to establish the 'Committee of experts' in collaboration with EPPO, and construct and maintain a data base where all the information on biocontrol agents could be made freely available to all interested parties. If IOBC/WPRS with its expert knowledge and international network does not take on this role, who else could take responsibility for overseeing a cost efficient and safe system of regulation?

Franz Bigler

BIGLER, F., J.S. BALE, M.J.W. COCK, H. DREYER, R. GREATREX, U. KUHLMANN, A.J.M. LOOMANS & J.C. van LENTEREN (2005): Guidelines on information requirements for import and release of invertebrate biological control agents in European countries. – *Biocontrol News and Information* 26, 4: 115-123.

IOBC/ WPRS

Commissions, Working groups, Study groups

January, 2006

Commissions	Convenor	Liaison
Publications	BATHON H. / TIRRY L.	
Determination and identification of entomophagous insects and insect pathogens	BAUR H. / KLEESPIES R.	
Guidelines for integrated production	AVILLA J.	ALBAJES R.
Harmonized regulation of biological control agents	BALE J.	BIGLER F.

Working groups and Sub Groups (SG)

Integrated protection of fruit crops	CROSS J.	SIGSGAARD L.
<i>SG soft fruits</i>	LINDER CHR.	
<i>SG pome fruit arthropods</i>	IORIATTI C.	
<i>SG IFP guidelines</i>	MALAVOLTA C.	
<i>SG pome fruit diseases</i>	ROSSI V.	
<i>SG stone fruits</i>	MOLINARI F.	
Pesticides and beneficial organisms	VOGT H.	BIGLER F.
Breeding for plant resistance to pests and diseases	BIRCH N.	TIRRY L.
Pheromones and other semiochemicals in integrated production	WITZGALL P.	VOGT. H.
Multitrophic interactions in soil	STEINBERG C.	WHIPPS J.
Integrated protection in viticulture	LOZZIA C.	BLUEMEL S.
<i>SG grape berry moths and chewing insects</i>	THIERY D.	
<i>SG mites and sucking insects</i>	MAIXNER M.	
<i>SG fungal and bacterial diseases</i>	CLERJEAU M.	
<i>SG physiological diseases</i>	CLERJEAU M.	
<i>SG side effects of pesticides</i>	SCHIRRA K.J.	
<i>SG practical implementation of integrated control</i>	SENTENAC G.	
<i>SG soil management and weed control</i>	CHANTELOT E.	

Integrated protection in oilseed crops	KOOPMANN B.	EKBOM B.
<i>SG pathology</i>	KOOPMANN B.	
<i>SG entomology</i>	COOK S.	
Integrated protection of field vegetables	COLLIER R.	VIEIRA M.M.
Integrated control in protected crops, temperate climate	ENKEGAARD A.	BESRI M.
Integrated control in protected crops, Mediterranean climate	CASTANE C.	WEINTRAUB P.
Insect pathogens and entomoparasitic nematodes	EHLERS R.	HUBER J.
<i>SG fungi</i>	TKACZUK C.	
<i>SG entomoparasitic nematodes</i>	GLAZER I.	
<i>SG virus</i>	LOPEZ-FERBER M.	
<i>SG soil insect pests</i>	ENKERLI J.	
<i>SG slugs and snails</i>	SYMONDSON W.	
Integrated control of plant pathogens	ELAD Y.	NICOT P.
Integrated protection in oak forest	SOUSA E.M.	VILLEMANT C.
<i>SG fungi</i>	FRANCESCHINI A.	
<i>SG forest management</i>	BENJAMAA M.	
Integrated protection of stored products	NAVARRO S.	WEINTRAUB P.
Integrated protection of olive crops	KALAITZAKI A.	MALATHRAKIS N.
Integrated protection of citrus crops	GARCIA MARI F.	BESRI M.
Induced resistance in plants against insects and diseases	SCHMITT A.	HUBER J.
GMO's in integrated plant production	ROMEIS J.	BIGLER F.
Landscape management for functional biodiversity	POEHLING M. / ROSSING W.	EKBOM B.

Study group

Integrated control of mite pests	WEINTRAUB P.	BLUEMEL S.
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IOBC/wprs Officers and their Addresses

All Officers are asked to send corrections and additions to this compilation of addresses to the editor of *Profile* and to the treasurer.

1 – Executive Committee

Bigler, Dr. Franz (President), Agroscope FAL Reckenholz, Swiss Federal Research Station for Agroecology and Agriculture, Reckenholzstrasse 191, CH-8046 Zürich (SWITZERLAND), Tel +41-44-3777111, Fax +41-44-3777201, e-mail: franz.bigler@fal.admin.ch, URL: www.reckenholz.ch

Blümel, Dr. Sylvia (Vice-President), Austrian Agency for Health and Food Safety (AGES), Spargelfeldstrasse 191, P.O.Box 400, A-1126 Wien (AUSTRIA), Tel +43-50555-33300, Fax +43-50555-33303, e-mail: sylvia.bluemel@ages.at

Tirry, Prof. Dr. Luc (Vice-President), Ghent University, Laboratory of Agrozoology, Department of Crop Protection, Coupure Links 653, B-9000 Gent (BELGIUM), Tel +32-9-2646152, Fax +32-9-2646239, e-mail: luc.tirry@ugent.be

Vogt, Dr. Heidrun (Vice-President), Federal Biological Research Centre for Agriculture and Forestry (BBA), Institute for Plant Protection in Fruit Crops, Schwabenheimer Strasse 101, D-69221 Dossenheim (GERMANY), Tel +49-6221-8680530, Fax +49-6221-8680515, e-mail: h.vogt@bba.de

Nicot, Dr. Philippe C., INRA, Unité de Pathologie Végétale, Domaine St. Maurice, B.P. 94, F-84143 Montfavet Cedex (FRANCE), Tel +33-432722841, Fax +33-432722842, e-mail: nicot@avignon.inra.fr

Albajes, Prof. Dr. Ramon (Treasurer), Universitat de Lleida, Centre UdL-IRTA, Rovira Roure, 177, E-25006 Lleida (SPAIN), Tel +34-973-702571 Fax +34-973-238301, e-mail: ramon.albajes@irta.es

2 – Council

Besri, Prof. Dr. Mohamed, Institut Agronomique et Vétérinaire Hassan II, Département de Phytopathologie, BP 6202, Rabat-Instituts (Marocco), Tel: +212-3777-8364, Fax: +212-3777-8364, e-mail: m.besri@jav.ac.ma

Ekbom, Prof. Barbara, Swedish University of Agricultural Sciences, Department of Entomology, P.O.Box 7044, SE-750 07 Uppsala (SWEDEN), Tel +46-1867-2625, Fax +46-1867-2890, e-mail: barbara.ekbom@entom.slu.se

Huber, Dr. Jürg, Federal Biological Research Centre for Agriculture and Forestry (BBA), Institute for Biological Control, Heinrichstrasse 243, D-64287 Darmstadt (GERMANY), Tel +49-6151-407220, Fax +49-6151-407290, e-mail: j.huber@bba.de

Sigsgaard, Dr. Lene, Royal veterinary and Agricultural University, Department of Ecology - Zoological Group, Thorvaldsensvej 40, DK-1871 Frederiksberg C (DENMARK), Tel +45-35282674, Fax +45-35282670, e-mail: les@kvl.dk

Weintraub, Dr. Phyllis G., Gilat Research Station, Entomology Unit, D.G. Negev 85280 (ISRAEL), Tel +972-8-9928678, Fax +972-8-9926485, e-mail: phyllisw@volcani.agri.gov.il

Whipps, Prof. Dr. John, Warwick HRI, University of warwick, Wellesbourne, Warwick CV35 9EF (UK), Tel +44-24-76575084, Fax +44-24-76574500, e-mail: john.whipps@warwick.ac.uk

Deputy Members

Malathrakis, Dr. Nikolaos, Technological Education Institute, Staouromenos, G-71500 Heraklio (Crete, GREECE), Tel: +30-81-379459, Fax +30-81-411714, e-mail: nmal@steg.teiher.gr

Vieira, Dr. Maria Margarida, Direcção-Geral de Protecção das Culturas, Quinta do Marquês, P-2780-155 Oeiras (PORTUGAL), Tel: +351-21-4464000, Fax: +351-21-4420616, e-mail: margaridav@dgpc.min-agricultura.pt

Villemant, Dr. Claire, Museum National d'Histoire Naturelle, Laboratoire d'Entomologie, 45, rue Buffon, F-75005 Paris (FRANCE), Tel +33-1-40793841, Fax +33-1-40793699, e-mail: villeman@mnhn.fr

3 – Auditing Committee

Freuler, Dr. Jost A., Station Fédérale de Recherche en, Production végétale de Changins, Route de Duillier, Case postale 254, CH-1260 Nyon, Switzerland, Tel: +41-22-3634383, Fax: +41-22-3634394, e-mail: jost.freuler@bluewin.ch

Lavadinho, Dr. Antonio Manuel Pereira, Direcção-Geral de Protecção das Culturas, Quinta do Marquês, P-2780 - 155 Oeiras, Portugal, Tel: 351-214464058, Fax: 351-214420616, e-mail: dgpc@mail.telepac.pt

Rezapanah, Dr. Mohammadreza, Biocontrol Control Research Dept, Plant Pests and Diseases Research Institute (PPDRI), Agricultural Research and Education Organization (AREO), P.O. Box: 19395-1454, Velenjak, Tehran, Iran, Tel: +98-21-2420224 / +98-21-2420225, Fax: +98-21-2403691, e-mail: rezapana@yahoo.com, <http://www.areeo.or.ir>

Royle, Dr. David J., East End Stable, Nowhere Lane, Nailsea, Bristol BS48 2PT, UK, Tel: +44-12-75857197

Adler, Dr. Cornel, BBA, Institute for Stored Product Protection, Königin-Luise-Strasse 19, D-14195 Berlin, Germany, Tel: +49-30-83042503, Fax: +49-30-83042502, e-mail: c.adler@bba.de, <http://www.bba.de>

4 – Convenors

of the Commissions, Working Groups (their Sub Groups), and Study Groups

Avilla, Dr. Jesús, University of Lleida, Centre UdL-IRTA, Rovira Roure 191, E-25198 Lleida (SPAIN), Tel: +34-973-702581, Fax: +34-973-238301, e-mail: jesus.avilla@irta.es

Bathon, Dr. Horst, Federal Biological Research Centre for Agriculture and Forestry (BBA), Institute for Biological Control, Heinrichstrasse 243, D-64287 Darmstadt (GERMANY), Tel +49-6151-407225, Fax +49-6151-407290, e-mail: h.bathon@bba.de

Baur, Hannes, Natural History Museum, Department of Invertebrates, Bernastrasse 15, CH-3005 Bern (SWITZERLAND), Tel: +41-31-3507264, Fax +41-31-3507499, e-mail: hannes.baur@nmbe.ch, <http://www.nmbe.ch>

Ben Jamaâ, Mohamed, Institut National de Recherches en Génie Rural, Eaux et Forêts, BP 10, 2080 Ariana-Tunis (TUNISIA), e-mail: benjamaa.lahbib@iresa.agrinet.tn

Birch, Dr. A. Nick, Scottish Crop Research Institute, Invergowrie, Dundee DD2 5DA (Scotland, UK), Tel +44-1382-562731, Fax +44-1382-562426, e-mail: n.birch@scri.sari.ac.uk, <http://www.scri.sari.ac.uk>

Castañé, Dr. Cristina, IRTA, Centre de Cabrils, Carretera de Cabrils s/n, E-08348 Cabrils (Barcelona) (SPAIN), Tel: +34-93-7507511, Fax: +34-93-7533954, e-mail: cristina.castane@irta.es

Chantelot, Éric, ITV France, 19 Rue de Général Foy, F-75008 Paris (FRANCE), e-mail: eric.chantelot@itvfrance.com

Clerjeau, Michel, UMR Santé Végétal INRA-ENITA, Centre de Recherches de Bordeaux, Station de Pathologie Végétale, Av. Edouard Bourleaux, BP 81, F-33883 Villenave d'Ornon Cedex (FRANCE), Tel. +33 6 08095487, Fax +33 5 56843222, clerjeau@bordeaux.inra.fr

Collier, Dr. Rosemary, Warwick HRI, The University of Warwick, Wellesbourne, Warwick, CV35 9EF (UNITED KINGDOM), e-mail: rosemary.collier@warwick.ac.uk

Cook, Samantha, Plant and Invertebrate Ecology Division, Rothamsted Research, Harpenden, Hertfordshire, AL5 2JQ (UK), Tel: + 44-1582-763133, e-mail: sam.cook@bbsrc.ac.uk, Web: <http://www.rothamsted.bbsrc.ac.uk>

Cross, Dr. Jerry, Horticulture Research International, East Malling, Kent ME19 6BJ (United Kingdom), Tel: +44-1732-8430833, Fax +44-1732-849067, e-mail: jerry.cross@emr.ac.uk

Ehlers, Prof. Dr. Ralf-Udo, Institute for Phytopathology, Christian-Albrechts-University, Dept. Biotechnology & Biological Control, Hermann-Rodewald-Str. 9, D-24118 Kiel (GERMANY), Tel +49-431-880-4864, Fax +49-431-880-1583, e-mail: ehlers@biotec.uni-kiel.de

Elad, Dr. Yigal, A.R.O. The Volcani Center, Department of Plant Pathology, Bet Dagan 50250 (ISRAEL), Tel +972-3-9683580, Fax +972-3-9683543, e-mail: elady@volcani.agri.gov.il

Enkegaard, Dr. Annie, Danish Institute of Agricultural Sciences, Department of Crop Protection, Research Centre Flakkebjerg, DK-4200 Slagelse (DENMARK), Tel +45-58113300, Fax +45-58113301, e-mail: annie.enkegaard@agrsci.dk

Enkerli, Dr. Jürg, Molecular Ecology, Agroscope FAL Reckenholz, Reckenholzstrasse 191, 8046 Zürich (SWITZERLAND), Tel: +41(0)1-377-7206, Fax: +41(0)1-377-7201, e-mail: juerg.enkerli@fal.admin.ch, <http://www.reckenholz.ch>

Franceschini, Dr. Antonio, Dipartimento di Protezione delle Piante, Sezione di Patologia vegetale, Università degli Studi, Facoltà di Agraria, Via E. de Nicola, 9, 07100 Sassari (ITALY), e-mail: afran@uniss.it

Garcia-Mari, Dr. Ferran, Universitat Politècnica de València, Departament Ecosistemes Agroforestals, Entomologia E.T.S. Enginyers Agrònoms, Camí de Vera 14, E-46022 València (SPAIN), Tel +34-638-79250, Fax +34-638-79269, e-mail: fgarciam@eaf.upv.es

Glazer, Dr. Itamar, Agricultural Research Organization, The Volcani Center, P.O.Box 6, Bet Dagan 50250 (ISRAEL), Tel: +972-3-9683334, Fax: +972-3-9604180, e-mail: glazerit@volcani.agri.gov.il

Ioratti, Dr. Claudio, Istituto Agrario San Michele all'Adige, Via Edmondo Mach, 1, 38010 S. Michele all'Adige (TN) (ITALY), Tel: ++39-0461-615111, Fax: ++39-0461-650872, e-mail: claudio.ioriatti@iasma.it

Kalaitzaki, Dr. Argyro, National Agricultural Research Foundation, Institute of Olive Tree and Subtropical Plant of Chania, Agrokipio, G-73200 Chania (GREECE), Tel: +30-28210-83449, Fax: +30-28210-93963, e-mail: argkalaitzaki@yahoo.com

Kleespies, Dr. Regina, Federal Biological Research Centre for Agriculture and Forestry (BBA), Institute for Biological Control, Heinrichstrasse 243, 64287 Darmstadt (GERMANY), Tel +49-6151-407-226, -240, Fax +49-6151-407290, e-mail: r.kleespies@bba.de, <http://www.bba.de/english/insect-pathogens/insect-pathogens.htm>

Koopman, Dr. Birger, Institute for Plant Pathology and Plant Protection, Grisebachstr. 6, D-37077 Göttingen (GERMANY), Tel +49-551-393776, Fax +49-551-394187, e-mail: bkoopma@gwdg.de

Linder, Christian, Agroscope, RAC Changins, Route de Duillier, CP 1012, CH-1260 Nyon 1 (SWITZERLAND), Tel: +41-22-3634389, Fax: +41-22-3621325, e-mail: christian.linder@rac.admin.ch

Lopez-Ferber, Dr. Miguel, LGEI, Industrial Environment Engineering Center, Ecole des Mines d'Alès, 6 avenue de Clavières, F-30319 Alès Cedex (FRANCE), Tel +33-4-66782704, Fax +33-4-66782701, e-mail: miguellopez@ema.fr

Lozzia, Dr. Carlo, Istituto die Entomologia Agraria, Università degli Studi di Milano, Via Celoria, I-20123 Milano (ITALY), Tel +39-02-23691927, Fax +39-02-26680320, e-mail: lozcar@mailserver.unimi.it

Malavolta, Dr. Carlo, Servizio Produzioni Vegetali, Viale Silvani, 6, I-40122 Bologna (ITALY), Tel +39-051-284654, Fax +39-051-284337, e-mail: cmalavolta@regione.emilia-romagna.it

Maixner, Dr. Michael, Federal Biological Research Centre for Agriculture and Forestry (BBA), Institute for Plant Protection in Viticulture, Brüningstr. 84, D-54470 Bernkastel-Kues (GERMANY), Tel +49-6531-9718, Fax +49-6531-4936, e-mail: m.maixner@bba.de

Molinari, Prof. Fabio, Istituto di Entomologia e Patologia Vegetale, Università Cattolica del Sacro Cuore, Via Emilia Parmense, 84, 29100 Piacenza (ITALY), Tel: +39-0523-599236, Fax: +39-0523-599235, e-mail: fabio.molinari@unicatt.it

Navarro, Dr. Shlomo, The Agricultural Research Organization, The Volcani Center, Department of Stored Products, P.O. Box 6, Bet Dagan 50250 (ISRAEL), Tel +972-525787252, Fax: +972-3-9683583, mobile +972-56-220587, e-mail: snavarro@int.gov.il

Poehling, Prof.Dr. Hans Michael, University of Hannover, Institute for Plant Pathology and Plant Protection, Herrenhäuser Strasse 2, 30419 Hannover (GERMANY), Tel +49-511-7622641, Fax +49-511-7623015, e-mail: poehling@ipp.uni-hannover.de

Romeis, Dr. Jörg, Agroscope Reckenholz-Tänikon Research Station ART, Biosafety Group, Reckenholzstrasse 191, Postfach, 8046 Zürich (SWITZERLAND), Tel +41-44-3777299, Fax: +41-44-3777201, e-mail: joerg.romeis@art.admin.ch

Rossi, Prof. Vittorio, Istituto di Entomologia e Patologia Vegetale, Università Cattolica del Sacro Cuore, Via Emilia Parmense, 84, I-29100 Piacenza (ITALY), Tel: +39-0523-59923, Fax: +39-0523-599256, e-mail: vittorio.rossi@unicatt.it

Rossing, Dr. Walter A.H., Wageningen University, Biological Farming Systems Group, Marijkeweg 22, NL-6709 PH Wageningen (THE NETHERLANDS), Tel +31-317-478210, Fax ++31-317-478213, e-mail walter.rossing@wur.nl

Schirra, Dr. Karl-Josef, DLR - Rheinpfalz, Dept. Phytomedizin, Breitenweg 71, D-67435 Neustadt/Weinstraße (GERMANY), Tel +49-6321-671350, Fax +49-6321-671387, e-mail: karl-josef.schirra@dlr.rlp.de

Schmitt, Dr. Annegret, Federal Biological Research Centre for Agriculture and Forestry (BBA), Institute for Biological Control, Heinrichstr. 243, 64287 Darmstadt (GERMANY), Tel +49-6151-407-241, Fax +49-6151-407290, e-mail: a.schmitt@bba.de

Sentenac, Gilles, Centre Technique Interprofessionnel de la Vigne et du Vin, 6 rue de XVI chasseur, F-21200 Beaune (FRANCE), Tel +33-380262383, Fax +33-380262384, e-mail: gilles.sentenac@itvfrance.com

Sousa, Edmundo, Estação Florestal Nacional, Departamento de Protecção Florestal, Avenida da República Quinto do Marquês, P-2780-159 Oeiras (PORTUGAL), e-mail: edmundo.sousa@efn.com.pt

Steinberg, Dr. Christian, INRA, UMR-Microbiologie et Géochimie des Sols, 17, rue Sully, B.P. 86510, F-21065 Dijon Cedex, (FRANCE), Tel +33/380693050, Fax +33/380693226, e-mail: christian.steinberg@dijon.inra.fr

Symondson, Dr. William O.C., School of Biosciences, Cardiff University, PO Box 915, Cardiff, CF10 3TL (UK), Tel +44-2920-875151, Fax +44-2920-874305, e-mail: symondson@cardiff.ac.uk

Thiery, Denis, INRA – Station de Zoologie, INRA Centre de Bordeaux, BP81, F-33883 Villenave d'Ornon Cedex (FRANCE), Tel +33-556843287, Fax +33-556843276, e-mail: thiery@bordeaux.inra.fr

Tirry, Prof. Dr. Luc, Ghent University, Laboratory of Agrozoology, Department of Crop Protection, Coupure Links 653, B-9000 Gent (BELGIUM), Tel +32-9-2646152, Fax +32-9-2646239, e-mail: luc.tirry@ugent.be

Tkaczuk, Dr. Cezary, University of Podlasie, Department of Plant Protection, ul. Prusa 14, 08-110 Siedlce (POLAND), e-mail: tkaczuk@ap.siedlce.pl

Vogt, Dr. Heidrun, Federal Biological Research Centre for Agriculture and Forestry (BBA), Institute for Plant Protection in Fruit Crops, Schwabenheimer Strasse 101, D-69221 Dossenheim (GERMANY), Tel +49-6221-8680530, Fax +49-6221-8680515, e-mail: h.vogt@bba.de

Weintraub, Dr. Phyllis G., Gilat Research Station, Entomology Unit, D.G. Negev 85280 (ISRAEL), Tel +972-8-9928678, Fax +972-8-9926485, e-mail: phyllisw@volcani.agri.gov.il

Witzgall, Dr. Peter, Swedish University of Agricultural Sciences, Department of Plant Protection Sciences, Box 44, S-23053 Alnarp (SWEDEN), Tel +46-40-415307, Fax +46-40-462166, e-mail: peter.witzgall@vv.slu.se

Associative learning in two closely related parasitoid wasps: a neuro-ecological approach. PhD thesis Maartje A.K. Bleeker (The Netherlands), Wageningen University, Laboratory of Entomology, The Netherlands; December 2005.

Insects are useful model organisms to study learning and memory. Their brains are less complex than vertebrate brains, but the basic mechanisms of learning and memory are similar in both taxa. In this thesis I study learning and subsequent memory formation in two parasitoid wasp species that differ in associative learning of the odours of plants on which they have encountered a host caterpillar. After ovipositing in a caterpillar on a certain plant species *C. glomerata* shifts its preference to the experienced plant odour, whereas *C. rubecula* does not shift plant odour preference after a similar experience. This difference in learning between these two closely related wasp species provides an attractive model to study physiological and ecological factors that could influence learning.

As a first step to analyse possible physiological differences that could influence learning, I describe morphological, anatomical and histochemical aspects of the neural pathways that mediate associative learning of odours in these wasps. The two wasp species display a high degree of similarity in morphology of the olfactory pathway at both the level of the sensilla, and the level of the glomeruli, the primary olfactory neuropile. I furthermore identify the octopaminergic neurons that could mediate the reward stimulus in the two wasp species, but the results did not allow us to distinguish possible dissimilarities between the species.

In addition I redefined the difference in preference learning between the two species in terms of associative and non-associative learning and analysed the temporal dynamics of the memory trace. Both wasps display associative learning after an oviposition reward conditioning, but the temporal dynamics differ. *C. glomerata* displays a stable memory for the experienced odour that lasts for at least five days, whereas in *C. rubecula* the memory starts to wane after one day. Finally, I studied the effect of physiological and ecological traits of hosts as possible factors influencing memory formation. For this I used two geographically disjunct populations of *C. glomerata* that differ in their host use. Both populations only change preference after an oviposition reward on their preferred host species, suggesting that physiological factors exert a major influence on learning in these two populations. I discuss the ultimate factors that could have contributed to a difference in learning in *C. glomerata* and *C. rubecula*.

A pdf version of this thesis can be obtained from maartje.bleeker@wur.nl

IOBC/wprs COMMISSIONS AND WORKING GROUPS

Commission on IP Guidelines and Endorsement

The celebration of the 50th Anniversary of IOBC/wprs is a good opportunity to make an effort to increase the knowledge about IOBC/wprs by the EU and the food chain actors. In close collaboration with the Executive Committee (the president FRANZ BIGLER attended one of the meetings of the Commission), the Commission has prepared letters showing the IOBC/wprs activities on integrated control and integrated production to be sent to key persons in the UE.

The production of the IOBC Tool Box for endorsed and interested organizations has proceeded. The toolbox includes now an explanation on how to prepare the documents, models for the Green and Yellow lists of the plant protection measures, the database on selectivity of agrochemicals to selected natural enemies, and the model of the inspection protocol and the associate rucksack. Software, named SESAME, has prepared for each endorsed organization in order to facilitate the measurement of the degree of achievements of the individual farmer and the whole organization.

Three endorsed organizations (Trecoop (Spain), Tyflo (France) and Live (USA)), requested and obtained the renewal of the endorsement for 2006. They will implement and test the new inspection protocol in a reduced number of growers.

The Executive Committee appointed Dr. ROBERT BAUR from Agroscope ACW Changins-Wädenswil, working at the Swiss Federal Research Station of Wädenswil as Commission member.

All the information on the activities of the Commission is available at the internet site:

<http://www.iobc.ch>

Dr. Jesús Avilla, Chairperson
Centre UdL-IRTA de R+D
Universitat de Lleida
Rovira Roure, 191
25198 – Lleida. Spain
e-mail: jesus.avilla@irta.es
Tel: ++ 34 973 70 25 81, Fax: ++ 34 973 23 83 01

Working Group “Integrated Control in Protected Crops, Mediterranean Climate”, Report of the Meeting in Murcia (Spain), 14-18 May, 2006

The last meeting was held in the city of Murcia (Spain) from 14th to 18th of May, 2006. Thanks are due to JUAN ANTONIO SÁNCHEZ, and his colleagues ALFREDO LACASA, JOSEFINA CONTRERAS, PABLO BIELZA, M^a MAR GUERREO, M^a ANGELES MATÍNEZ, CARIDAD ROS, JOSÉ ISIDRO MARTÍNEZ-CASCALES, M^a SOLEDAD CATALÁ and MICHELANGELO LA SPINA from Instituto Murciano de Investigación y Desarrollo Agrario (IMIDA), Murcia. 107 researchers and implementers participated in the meeting. They came mainly from the Mediterranean area but we had also participants from other European, Asian, North and South American countries: Brasil, Canada, Cyprus, France, Greece, Iran, Israel, Italy, Japan, Morocco, Spain, The Netherlands and USA. A total of 67 contributions, including three invited presentations, were published before the meeting and they are available in the IOBC/wprs Bulletin 29(4). Two more last minute poster contributions were also presented that are not compiled in the green bulletin. Contributions dealt with IPM systems and components in protected crops (8), whiteflies (12), mites (7), thrips, leafminers, aphids and lepidoptera pests (9), generalist predators (13), plant diseases (7), soil-borne diseases (5) natural pesticides and side effects on beneficials (6). After each oral session, moderators made a brief resume of posters corresponding to the session topic in order to include them in the discussion. In each session interesting discussions were leaded by two moderators. In the IPM systems session different IPM tools were analyzed as the compatibility of different beneficials simultaneously, the use of a Geographical Information System for pest management or the mechanical distribution of beneficials. Also were discussed the integration of pest and disease management in Cyprus and the successful biological control case of peppers in Murcia. In the plant and soil-borne diseases session alternative methods to methyl bromide for soil disinfection, and control of *Fusarium* and powdery mildew were the main issues discussed. In the whiteflies session discussions were focused on the use of different beneficials for their control, as entomopathogens, predators and parasitoids. In the mites session resistant varieties and predatory mites were the topics. The generalist session was a long one with contributions on mirid/anthocorid biology and population dynamics and plant damage caused by zoophytophagous predators. The presence of alternative food for natural enemies provided by the plant was discussed as a modulator element in biological control systems by the invited speaker. Side effects of pesticides on predators and parasitoids were discussed in the last session of the meeting.

A very interesting field visit to Campo de Cartagena (Murcia) allowed participants to see the greenhouse peppers in which biological control is applied in 1500 Ha. Plenty of natural and/or introduced *Orius* sp. were easily seen in the crops visited.

Next meeting of the working group will be in 2009 and in a still not decided place.

Dr. Cristina Castañé (convenor)
IRTA, Centre de Cabrils
Carretera de Cabrils s/n
E-08348 Cabrils (Barcelona) (SPAIN)
Tel: +34-93-7507511, Fax: +34-93-7533954
e-mail: cristina.castane@irta.es

Working Group “Integrated Protection of Stored Products” Next Meeting: Poznań (Poland), August 20-23, 2007

Invitation, First Circular and Call for Papers

Dear colleague,

We kindly invite you to participate in the next Conference of the IOBC/WPRS Working Group on the “Integrated Protection of Stored Products“ that will be held on:

August 20-23, 2007, organised by the **Institute of Plant Protection, Poznań, Poland**

The objective of this conference is to report on the new research developments in integrated protection of stored products, stressing the non-toxic methods of pest prevention, detection and control. Communication of these findings at the Conference will facilitate and maximise the dissemination of new technologies designed to reduce the use of residue building pesticides and avoid risks to non-target organisms, to the end-users, as well as providing protection of the environment from contamination.

The IOBC/WPRS Working Group on Integrated Protection of Stored Products meets every two years to discuss new findings regarding the following topics:

- biology of stored product pests
- methods of pest prevention during storage, transportation and handling
- pheromones, traps and other methods to detect stored product pests
- all aspects of biological control
- prevention of microflora infection and development of mycotoxins
- physical, chemical and other techniques for stored product pest control
- futurology: overviews and future trends on all aspects of storage pest control.

Please find below further information regarding registration, submission deadlines and accommodation. We are expecting participation of many researchers representing numerous countries and we hope that you also will be able to participate.

With kind regards,



Shlomo Navarro
Convenor



Danuta Sosnowska and Pawel Olejarski
Local Organizers

Deadline for abstracts and early registration

Please be aware of the following deadlines for the Conference:

Deadline for early registration is May 15, 2007 and the deadline for sending abstracts is June 15, 2007.

Costs for early registration:

125 Euros for non-members

95 Euros for IOBC-members / students (without extra copy of proceedings)

Costs for registration after May 15, 2007:

170 Euros for non-members

140 Euros for IOBC-members / students (without extra copy of proceedings)

Registration fee include:

Conference fee, book of abstracts, proceedings, welcome drink, social evening, and conference field trip

Payment details:

Bank Gospodarki Żywnościowej (BGZ)

S.A. o/Poznan

IBAN: PL 84 2030 0045 3110 0000 0001 2180

SWIFT: GO PZ PL PW POA

Payment conference IOBC/WPRS

(Transfer net amount).

Mode of payment:

Bank transfer before arrival, or cash EURO can be paid at the registration desk upon arrival.

Oral presentations

Short oral presentations (15-20 min.) are welcome; overhead, slide projection and Power Point will be available.

Proceedings

Oral presentations will be considered for publication in the Proceedings that will be fully edited. English or French written manuscripts will be published in the IOBC/ WPRS Bulletin. To accelerate the print of manuscripts authors are requested to follow the „instructions to authors“, and to hand in their papers and a version on computer disc (Word -file on a CD) during the meeting (deadline: August 20, 2007).

We will first meet on Monday, August 20, sessions and excursions are planned for August 22. A detailed program will be sent to registered participants.

If you plan to attend the conference, **please register until May 15, 2007**. You will find enclosed a registration form and information on financial support, please inform **your colleagues about this meeting!**

Abstracts preparation

Abstracts of presentations will be printed in the Program that will be distributed to participants upon registration at the beginning of the Conference. Therefore, a standard size and uniformity will be required of each abstract. Abstracts should be typed (preferably using a word processor such as Word for Windows). The top line should be the title of the presentation in block (all capital) letters. The second line should list the author(s) with the last name in block letters. The third and fourth line should be the full address of the institution or affiliation of the author(s). The text should follow using font size of 12 point and a plain style such as Times New Roman. The abstract text is limited to 300 words without tables and figures.

Financial support

Limited financial support is available for those students and colleagues that give a presentation and whose travelling expenses are not covered by an employer or other sources. Please contact Prof. Shlomo Navarro <snavarro@013.net> directly on this matter until April 15, 2007 (please send along abstract of presentation).

Accommodation

	Price (PLN and EUR)*	
	Hotel "IOR" (territory of Institute)	"Gromada" (10 min walk from Institute)
Double room	167 zł (43 EUR) (21.5 EUR/person)	150 zł (38 EUR) (19 EUR/person)
Single room	117 zł (30 EUR)	115 zł (29 EUR)

* Breakfast is included in the price

Payment: Cash PLN or Credit Card. Accommodation to be paid at the desk!

Proceedings of the last meetings

The proceedings of the last meeting in Kusadasi (IOBC/WPRS Bulletin Vol. 27 (9), 2004) is still available.

You may also order copies of the

- IOBC/wprs Bulletin 21 (3), 1998 (Meeting in Zurich, August 1997)
- IOBC/wprs Bulletin 23 (10), 2000 (Meeting in Berlin August/Sept. 1999)
- IOBC/wprs Bulletin 25 (3), 2002 (Meeting in Lisbon Sept. 2001) and the
- IOBC/wprs Bulletin 27 (9), 2004 (Meeting in Kusadasi Sept. 2003) through

Dr. Horst Bathon (IOBC / WPRS)
BBA, Institute for biological control
Heinrichstr. 243, 64287 Darmstadt (Germany)
E-mail: <h.bathon@bba.de>

For ordering of IOBC/WPRS Bulletins use the order form:

http://www.iobc-wprs.org/pub/bulletins/bulletin_order.pdf

A copy will cost 30.- Euros. You may include payment for orders of less than 100 Euros. If you pay per check please add 5.- Euros for banking fees. If you pay per money transfer please make sure that the transfer costs are debt to you:

Bank account of IOBC/WPRS: Union Bank of Switzerland, 8021 Zurich: Account No. 230/517.950.60 F

Registration Form
Conference of the IOBC/WPRS Working Group Integrated Protection of Stored Products in
Poznan, August 20-23, 2007

To: Danuta Sosnowska
Institute of Plant Protection,
ul. Miczurina 20,
60-318 Poznan, Poland

Fax: +48 61 867 63 01
<D.Sosnowska@ior.poznan.pl>

Participants name (last name in capital letters):

Position (senior scientist, student, etc.):

Address:	Institution:	Company:
.....
.....
.....
.....

Phone Fax E-mail

I will give a presentation (please tick one): **Oral** Yes / No **Poster** Yes / No

Title:

Equipment needed for presentation:

The abstract was sent by e-mail to <D.Sosnowska@ior.poznan.pl> **or** on CD to the address above.

I am covered by an IOBC membership (please tick one): Yes / No

If yes, Individual
 Supporting (state name of institution)

 Institutional (state name of institution)

I have sent / I will send **Euros to cover the registration fee according to instructions provided**

- with my name and the comment “registration fee for IOBC/WPRS meeting” free of banking charges to the account provided in the general instructions

Date.....

Signature.....

**Working Group
“Integrated Control in Glasshouses, Temperate Climate”.
Next Meeting:
21-25 April, 2008, Sint Michielsgestel (The Netherlands)**

The IOBC/WPRS Working Group “Integrated Control in Protected Crops, Temperate Climate” will meet on the 21-25 April 2008, in Sint Michielsgestel in The Netherlands. Do not forget to record this date! The conference will be located on a peaceful location with modern facilities. Find more on www.ruwenberg.nl.

We have in mind to organize an interesting mix of discussion and excursions to the most modern greenhouses with state of the art IPM and the most innovative greenhouse industry projects. The meeting will partly be dedicated to the topic “IPM in outdoor and hardy nursery stocks”. More news about the program will follow soon. We are looking forward to welcome you!

Local organisers

Pierre Ramakers
Marieke van der Staaij
Gerben Messelink
Gerben.Messelink@wur.nl
Applied Plant Research

IOBC/WRPS WG Convenor

Annie Enkegaard
Danish Institute of Agricultural
Sciences
annie.enkegaard@agrsci.dk

Jeroen van Schelt
Koppert Biological Systems

**Working Group “Integrated Control in Oilseed Crops”
Last Meeting: Poznan (Poland), 11-12 October 2005**

Our last biannual Working Group meeting was held 11-12 October 2005 in Poznań. This meeting was brought forward from 2006 in order to take advantage of the possibility of support provided by the EU project PAGEN (<http://www.pagen.poznan.pl/>). The meeting was the biggest so far in the history of our Working Group, with 77 participants from a total of 11 countries, giving a total of 42 oral presentations and 25 posters. The abstracts of the meeting are available for download on our Working Group web page. The contributions of the meeting are forwarded to the Publication Commission in May 2006 and will become available soon as IOBC/wprs Bulletin 29(7), 2006.

The meeting was very well organized by colleagues from the Institute of Plant Genetics (IGR-PAS). We are grateful to Dr. MAŁGORZATA JĘDRYCZKA and her team for co-ordinating the local arrangements so carefully. These included an interesting and fun excursion to the Malyszyn plant breeding station of Plant Breeding Strzelce and the bat reserve Nietoperek (Miedzyrzecki Wal Umocniony, Grupa Warowna Scharnhorst).

This meeting was the first convened by both the new convenors. We gratefully acknowledge the support of the previous convenors, VOLKER PAUL and INGRID WILLIAMS, given to us both prior to and during this meeting. We dedicated the forthcoming volume of the Bulletin to them in gratitude for all they have done for our Working Group.

Forthcoming Meeting

During the meeting in Poznan, it was decided that our next Working Group meeting will be held in France. Dr. XAVIER PINOCHET (CETIOM) took the responsibility for local arrangements. It is yet not decided where and when this meeting will take place. We want to arrange a time not too close to the 12th International Rapeseed Conference of the GCIRC (Groupe Consultatif International de Recherche sur le Colza). This conference will be organised in Wuhan, China, 26-30 March 2007.

Relaunch and new URL of our Working Group web page

Our Working Group web page was relaunched in June 2006. The web page provides information on the aims of our group, its achievements, and news, as well as announcements; forthcoming meetings, a chronicle of meetings (comprising meeting reports), abstracts (including a collection of abstracts available for download), list of Bulletins, a history of the WG "Integrated Control in Oilseed Crops" and more!

The URL is <http://wwwuser.gwdg.de/~iobc/index.html>.

BIRGER KOOPMANN and SAM COOK

Working Group: "Integrated Protection of Olive Crops" 3rd Meeting

The 3rd meeting of the Working Group will be held in Braganca (Portugal) in October 2007. Chairperson: Jose Alberto Pereira. CIMO/Escola Superior de Braganca, PO Box 1172, 5301-855 Braganca (Portugal). E-mail: jpereira@ipb.pt The website will be available in October 2006.

Publications

The Proceeding of the 1st European Meeting of the IOBC/WPRS Study Group "Integrated Protection of Olives Crops" that was held in Chania, Greece at May 29-31, 2003 in the Mediterranean Agronomic Institute of Chania (MAICh) was published as IOBC/WPRS Bulletin Vol. 28 (9), 2005.

Full articles of the 2nd Meeting, Florence (Italy), October 26-28, 2005 will be published in the Proceedings in the IOBC/WPRS Bulletin in 2006.

Dr. Kalaitzaki Argyro (Convenor of the Working Group)
(N.AG.RE.F.) Institute of Olive Tree and Subtropical Plants
Department of Entomology and Biological Control
Tel.: +30 28210 83449, Fax: +30 28210 93963
E-mail: argkalaitzaki@yahoo.com

Working Group “GMOs in Integrated Plant Production” Ecological Impact of Genetically Modified Organisms (EIGMO) 3rd Meeting: 23-25 May 2007, Warsaw (Poland)

We are glad to announce the 3rd EIGMO meeting by the IOBC/wprs Working Group “GMOs in Integrated Plant Production” in Poland in 2007. The meeting will be organized by Zbigniew Dabrowski from the Department of Applied Entomology, Warsaw Agricultural University (SGGW). Please reserve these dates!

The IOBC/wprs working group aims to present a platform for exchange or research results and to stimulate collaborative projects dealing with genetically modified plants and their potential impact on the environment. For details on the objectives of this group see the IOBC/wprs newsletter Profile Nr. 34 (<http://www.iobc-wprs.org/pub/index.html>).

The working group has hold two earlier meetings, in November 2003 in Prague, Czech Republic, and in June 2005 in Lleida, Spain. The meetings had been a great success with up to 100 participants from more than 20 countries attending each meeting. Contributions from these two meetings have been published in the IOBC/wprs Bulletin 27(3) (2004) and 29(5) 2006, respectively.

To ensure a good coverage of the different aspects related to the working group's activity a scientific committee has been established to put together the programme for the upcoming meeting. This committee comprises the following colleagues:

RAMON ALBAJES (University of Leida, Leida, Spain)

DETLEF BARTSCH (Federal Office of Consumer Protection and Food Safety,
Berlin, Germany)

FRANZ BIGLER (Agroscope Reckenholz-Tänikon Research Station ART, Zurich,
Switzerland)

ALAN RAYBOULD (Syngenta, Bracknell, UK)

JÖRG ROMEIS (Agroscope Reckenholz-Tänikon Research Station ART, Zurich,
Switzerland)

Further information on the focus of the meeting, key note lectures and the deadlines for submission of abstracts and title of presentations will be distributed in the second announcement.

In case that you have any suggestions regarding the organization or structure of the meeting or any further question contact either me or someone else from the organizing committee.

Jörg Romeis (WG convenor)

Biosafety Group, Federal Department of Economic Affairs DEA

Agroscope Reckenholz-Tänikon Research Station ART

Reckenholzstr. 191, 8046 Zurich, Switzerland

Tel.: +41-(0)44-377 72 99, Fax: +41-(0)44-377 72 01

E-Mail: joerg.romeis@art.admin.ch

Working Group “GMOs in Integrated Plant Production”

A special working group activity had been launched during the last meeting in Lleida, Spain, in June 2005. The aim is to establish generic environmental risk assessment guidelines for transgenic insecticidal crops with particular emphasis on terrestrial non-target arthropods. This initiative involves scientists from diverse institutions including public research institutes, the agricultural biotech industry, representatives from regulatory agencies, and a commercial testing laboratory. The group has held its first meeting in Engelberg, Switzerland, from 3-5 May, 2006. The outcome of this activity will be presented to the full working group at the next meeting that will take place in Warsaw, Poland, from 23-25 May 2007.

For this meeting a scientific program committee has been established to ensure a good coverage of the different aspects related to the working group's activity. The committee comprises the WG convenor and the following colleagues: Ramon Albajes (University of Leida, Leida, Spain; ramon.albajes@irta.es), Detlef Bartsch (Federal Office of Consumer Protection and Food Safety, Berlin, Germany, detlef.bartsch@bvl.bund.de), Franz Bigler (Agroscope Reckenholz-Tänikon Research Station ART, Zurich, Switzerland, franz.bigler@art.admin.ch) and Alan Raybould (Syngenta, Bracknell, UK, alan.raybould@syngenta.com). We are open for suggestions and you may contact any member of the program committee

Jörg Romeis (convenor)
Agroscope Reckenholz-Tänikon Research Station ART
Reckenholzstr. 191, 8046 Zurich, Switzerland
Tel: +41-44-3777299; FAX: +41-3777201
E-mail: joerg.romeis@art.admin.ch

Working Group “Multitrophic Interactions in Soil” Next Meeting: Dijon (France), 24-27 June, 2007

The IOBC-meeting ‘Multitrophic Interactions in Soil’ aims at bringing together students, experts, researchers, and industrial companies interested in the biotic component of the functioning of the soil. Many questions will be raised up on a conceptual basis : is there any specific characteristics peculiar to soil microbial and microfaunal ecology making it different from global ecology?, shall we consider individuals, populations, or functional genes to analyze microbial and microfaunal communities?, what are the spatio-temporal scales at which multitrophic interactions should be investigated?, how to transpose observations from the aggregates to the fields?, are the food webs still taken into account when model populations are used?

But also many questions aiming at understanding mechanisms underlying applied researches will be addressed to acquire and increase our knowledge and help us in proposing solutions to maintain or promote soil and plant health. The development of tools needed to tackle the problems should be discussed as well. All these questions

concern the kingdoms of fungi, protists, bacteria, nematodes, and insects but also biological control, soil microbiology, soil microbial and microfaunal ecology, molecular ecology, molecular biology.

The meeting in 2007 will focus on findings in these areas of research but no limit is set. Below are some suggestions:

- Spatial and temporal dynamics of soil-borne organisms
- Intra and inter kingdom interactions and food web
- Modelling the nutrient flux and the population dynamics
- Scaling-up from aggregates to field applications
- Management of agricultural practices to suppress diseases
- New methods to study multitrophic interactions and biodiversity in soil
- Registration, legal actions and commercial applications of beneficial organisms

You can already tick the dates on your 2007 diary. Participants are expected to present short 15 minute papers, think about it. A second announcement in September 2006 will indicate the procedure to register and send your abstract.

For more information, please contact

Christian Steinberg (WG convenor)
INRA-Université de Bourgogne
UMR Microbiologie et Géo chimie des Sols, CMSE
17 rue Sully - BP 86510, F. 21065 Dijon Cedex, France
Tel +33 (0) 380 69 30 50, Fax +33 (0) 380 69 32 24
e-mail: steinberg@dijon.inra.fr

International Joint Workshop on "PR-proteins" and "Induced Resistance in Plants against Pathogens and Insects", 10-14 May, 2007, Doorn (The Netherlands)

From May 10-14, 2007 the International Joint workshop on "PR-proteins" and "Induced Resistance in Plant against Pathogens and Insects" will be organized in Conference Center "Zonheuvel" in Doorn, the Netherlands. Doorn is a small village located in the woods between Wageningen and Utrecht.

The meeting will be a joint meeting of the IOBC/wprs Working Group "Induced Resistance In Plants Against Insects and Diseases" and the "PR-proteins Workshop". An explicit aim of the meeting is to promote a multidisciplinary approach to plant-attacker interactions, from molecular genetics to ecology.

At this meeting we will bring together scientists that are interested in the responses of plants against various attackers including different types of pathogens and insects. The workshop will cover fundamental and applied aspects.

There will be sessions on: (1) PR-proteins and inducible resistance, (2) signal-transduction in induced resistance, (3) molecular ecology of induced resistance and (4) application of induced resistance in crop protection.

Experts in the different fields will be invited as keynote speakers to be followed by oral and poster presentations from the participants.

For further information see www.unine.ch/bota/iobc (button “next meeting”) or contact either CORNÉ PIETERSE (C.M.J.Pieterse@bio.uu.nl), MARCEL DICKE (marcel.dicke@wur.nl) or ANNEGRET SCHMITT (a.schmitt@bba.de).

Notes on Chemical Ecology

Research in chemical ecology remains a current frontier in biology. The chemical ecology group in Alnarp, headed by BILL HANSSON, has received a LINNÉ-award, a ten-year grant for fundamental and applied research on insect ecology, ethology and evolution.

A course in Insect Chemical Ecology will be held at SLU Alnarp, Sweden, June 4-16, 2007. The course covers current research in chemical ecology, including the insect olfactory system, plant-insect interactions and practical applications.

Peter Witzgall
SLU • Box 44 • 23053 Alnarp (Sweden)
phone +46 (0)40 - 41 53 07 •
<http://www.phero.net>

IOBC Global Working Group “*Ostrinia* and other Maize Pests” (IWGO) 22nd Conference: Vienna (Austria), 5-8 November, 2006

History and Mission of this Conference

This conference is the continuation of a series of international meetings on *Ostrinia* and other maize pests that began in 1968. IWGO is a well-established large international working group, which deals today with all matters of maize pests and pest resistance. Focus areas of the 21st IWGO Conference in Venice, Italy, included many aspects of the ecology and management of *Diabrotica*, *Ostrinia*, *Agriotes*, *Sesamia*, aphids, etc. The intent of these IWGO conferences is to create a meeting for practitioners, a forum for information exchange, an event to build cohesion among the research community and to foster discussions of issues affecting the control of maize insect pests, particularly pertaining to the use of integrated control measures in the maize crop agro-system.

The 22nd IWGO Conference will be organized following this concept and will deal with all maize insect pests, not only *Diabrotica*. The scientific committee consists of Dr. ULLI KUHLMANN, CABI Bioscience Centre, Delémont (Switzerland); Prof. C. RICHARD EDWARDS, Purdue University, W. Lafayette, Indiana (U.S.A.) and Dr. WANG ZHEN-YING, Plant Protection Institute of CAAS, Beijing (P.R. China). The local organizer is HARALD BERGER (Vienna, Austria). After an international mailing requesting ideas for scientific sessions, session subjects and session organizers have been selected by the scientific

committee. Afterwards speaker selection will be the responsibility of session organizers in collaboration with the scientific committee. Attendees who are not speakers have the opportunity to submit their research in the form of a poster presentation. All talks and posters will present original data from specific projects pertaining to maize pests. Efforts should be made to be specific and to avoid presenting overviews, summaries or material that is already widely known. The goal of the meeting is to stimulate ideas and discussion by presenting new information.

International Participation

An important goal of this meeting is to make it truly international, with good participation from all parts of the world. To promote this outcome, the job of the IWGO convenors will be to promote awareness of the meeting among IOBC, IWGO and non-IOBC members in specific geographic areas. Selected scientific session organizers should follow this concept to ensure an international atmosphere during sessions.

Hotel

The conference hotel is the Parkhotel Schönbrunn. Parkhotel Schönbrunn was built in 1907 as the guest house of Emperor Franz Josef I and today offers modern comfort to those visiting Vienna. The imperial atmosphere of bygone days together with modern facilities and friendly service make the hotel unique. The indoor swimming pool with sauna offers entertainment and relaxation. All public rooms and most of the guest rooms were refurbished between 1999 and 2001. The hotel is located in the immediate vicinity of the "Schönbrunn Palace" and is surrounded by a park. The entrance to the park, with its various entertainment possibilities and the zoo of Schönbrunn, is directly opposite the hotel. The city center can be reached by underground U4 in about 8 minutes, the station 'Hietzing' is across the street from the hotel. We were able to negotiate very competitive rates for conference participants and we thoroughly recommend this hotel.

Cost

The conference costs for participants are as follows: hotel accommodations Euro 68 single room/night or Euro 83 double room/night including breakfast and taxes; early registration fee is Euro 220 and available until 31 May 2006 afterwards the registration fee will increase over time to a maximum of Euro 280. Registration fee includes the IWGO Conference Booklet, all coffee/tea breaks and lunches. It should be noted that through the support of national and international sponsors the welcome reception including food and beverages, the reception at Vienna town hall including food and beverages and the reception of the Ministry of Agriculture including food and beverages are free of charge to all registered participants. Individual financial support for conference participation is not available due to the lack of sponsorship for supporting the travel to international conferences such as the IWGO Conference.

IWGO Conference Secretary

We are looking forward to organizing a stimulating conference and hope that you will participate. If you have questions, please do not hesitate to contact the IWGO

Conference Secretary in Switzerland (conference@iwgo.org). Also, please forward our website address to colleagues who may have an interest in the participating in the 22nd IWGO Conference (www.iwgo.org/conference/Vienna_2006/).

Dr. Ulrich Kuhlmann (Convenor IWGO)
CABI Bioscience Switzerland Centre
Rue des Grillons 1
2800 Delémont (Switzerland)
Tel (direct): +41-32-4214882, Fax: +41-32-4214871
E-mail: U.Kuhlmann@cabi.org
IWGO Webpage: www.iwgo.org

New IOBC/wprs Publications

New IOBC/wprs Bulletins

The Publication Commission of the IOBC/wprs has issued the following Bulletins in 2005 and 2006. For Bull. **28**(1-6), 2005 see *Profile 39*: 29-41 for IOBC/wprs Bull. **28**(8, 9, 11), 2005 see *Profile 40*: 22-26 or visit the IOBC/wprs website.

IOBC/wprs Bulletin Vol. 28(7) 2005

Working Groups „Integrated fruit protection in fruit crops” and “Use of pheromones and other semiochemicals in integrated control”. Proceedings of the 6th International Conference on Integrated Fruit Production. Baselga di Piné (Italy), September 26-30, 2004. Edited by: Jerry Cross & Claudio Ioriatti. ISBN 92-9067-179-9 [xxviii + 485 pp.]

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Proceedings of the meetings at Lindau (Germany), 31 August – 5 September, 2002
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ISBN 92-9067-184-8 [xiv + 283 pp.]

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 Proceedings of the meeting at Wageningen (The Netherlands), 5-8 June, 2005.
 Edited by: Jos M. Raaijmakers & Richard Sikora. ISBN 92-9067-185-6 [vii + 197 pp.]

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Working Group “GMOs in Integrated Plant Production” Proceedings of the meeting “Ecological Impact of Genetically Modified Organisms” at Lleida (Spain), 1-3 June 2005. Edited by: Jörg Romeis & Michael Meissle. ISBN 92-9067-188-0 [xv + 200 pp.].

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Other interesting publications brought to attention of Profile

In November 2005, there was a conference in Flakkebjerg, Denmark, on "Implementation of Biocontrol in Practice in Temperate Regions - Present and Near Future", available now as a DIAS report (No. 119, Feb. 2006, 351 pages). This conference dealt with biocontrol of field as well as stored product and hygienic pests in animal husbandry. The proceedings can be ordered via internet (www.agrisci.dk) and a person to contact for further information would be Dr. Lise Stengard Hansen (email Lise Stengård Hansen <LiseS.Hansen@agrsci.dk>), head of the organizing committee of this meeting. The proceedings from the November meeting in Flakkebjerg are also available on the internet: <http://www.center-biologisk-bekaempelse.dk/proc2005.pdf>

Chvála, M. (2005): The Empidoidea of Fennoscandia and Denmark. IV. Genus *Hilara*. – 233 pp., Leiden, Brill Academic Publishers (Fauna Entomologica Scandinavica, 40), € 99.00 [US\$ 134.00] (ISBN 90-04-147993).

Tzanakakis, M.E. (2006): Insects and mites feeding on Olives. Distribution, importance, habits, seasonal development, and dormancy. – 200 pp., Leiden, Brill Academic Publishers (Applied Entomology Library, 1), € 160.00 [US\$ 208.00] (ISBN 90-04-132716).

Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft Berlin-Dahlem (all issues in German with English summaries). The „Mitteilungen“ are available by: Biologische Bundesanstalt, Informationszentrum Phytomedizin und Bibliothek, Königin-Luise-Str. 19, 14195 Berlin, Tel 030/8304-2120, Fax: 030/8304-2103, E-Mail: <Bibliothek@bba.de> und <A.Lepretre@bba.de>

Jahn, M., O. Röder & J. Tigges (2005): Electron treatment of cereal crop seeds – Overview and appraisal of field trials. – 126 pp., Berlin (Mitt. BBA 399), € 14,95 (ISBN 3-930037-20-3).

Plümer, U. (2006): Studies on behavioural changes in hedgehogs (*Erinaceus europaeus* L.) through uptake of the molluscicide Metaldehyde. – 96 pp., Berlin (Mitt. BBA 401), € 12,95 (ISBN 3-930037-22-X).

Bors, J., K. Raupach & S. Werres (2006): Plant protection in organic nursery production in the Federal Republic of Germany. – 96 pp., Berlin (Mitt. BBA 402), € 12,95 (ISBN 3-930037-23-8).

Büchs, W. (ed., 2006): Potentials and limits of an ecologicalisation of ariculture – scientific approaches and practical experiences. – 144 pp., Berlin (Mitt. BBA 403), € 14,95 (ISBN 3-930037-24-6).

Hallmann, J. & B. Niere (eds., 2006): Recent Advances in Nematology – Dedicated to Dir. and Prof. Dr. Joachim Müller. – 94 pp., Berlin (Mitt. BBA 404), € 12,95 (ISBN 3-930037-25-4).

Jüttersonke, B. & K. Arlt (2006): Floristic quality assessment of margin biotopes in agricultural landscapes of selected natural spaces in Germany – a contribution to therisk management on the application of pesticides. – 128 pp., Berlin (Mitt. BBA 407), € 14,95 (ISBN 3-930037-28-9).

Time-Table of forthcoming events

For the Meetings of the IOBC/wprs Working Groups see also the IOBC/wprs homepage: <http://www.iobc-wprs.org>

04 - 06 September, 2006: Meeting of the IOBC/wprs WG "Integrated plant protection in fruit crops", Subgroup "Arthropod pests of pome fruits": "Arthropod pest problems in pome fruit production" (Lleida, Spain). – Convenor: Dr. Jerry Cross, Jerry.Cross@emr.ac.uk, Scientific Secretary: Dr. Claudio Ioriatti, claudio.ioriatti@iasma.it, Local Organiser: Dr. Jesús Avilla, jesus.avilla@irta.es

06 - 10 September, 2006: 9th IOBC/wprs Meeting of the WG "Integrated Control of Fungal and Bacterial Plant Pathogens": "Fundamental and Practical Approaches to Increase Biocontrol Efficacy", Spa (Belgium). – SPA 2006 Biocontrol Secretariat, Monica Höfte, Laboratory Phytopathology, Dept. Crop Protection, Fac. Bioscience Engineering, Ghent University, Coupure links, 653, 9000 Gent, Belgium, Fax +32 9/2646238, e-mail: monica.hofte@ugent.be, Registration form: http://www.iobc-wprs.org/events/download/20060906_reg.doc

- 17 - 22 September, 2006: 8th European Congress of Entomology, Izmir (Turkey). – Prof. Dr. Seniz Kismali, Ege University, Agriculture Faculty, Dept. of Plant Protection, Bornova 35100 Izmir, Turkey, e-mail: kismali@ziraat.ege.edu.tr, www.ece2006.org
- 25 - 28 September, 2006: 55. Deutsche Pflanzenschutztagung „Biotechnologie - Innovationsmotor für den Pflanzenschutz“, Göttingen (Germany). – <http://www.pflanzenschutztagung.de>
- 02 - 04 October, 2006: Meeting of the IOBC/wprs WG "Integrated Plant Protection in Fruit Crops – Sub-Group Stone Fruits", "Workshop on Integrated Stone Fruit Production", Bellegarde (France) Centre Ctifl Balandran. – Local organiser: Jean Lichou, Ctifl, Centre de Balandran, BP 32 - 30127 Bellegarde (France). e-mail: Lichou@ctifl.fr; Convenor Sub-group: Fabio Molinari, Istituto di Entomologia e Patologia vegetale, Facoltà di Agraria, U.C.S.C., Via Emilia Parmense 84, 29100 Piacenza (Italy), e-mail: fabio.molinari@unicatt.it
- 15 - 21 October, 2006: International Conference "Novel And Sustainable Weed Management In Arid And Semi-Arid Agro-Ecosystems", Revohot (Hebrew University, Jerusalem) (Israel). – The organizing Committee: wgarid@agri.huji.ac.il, Prof. Baruch Rubin, J. & R. Liss Professor of Weed Sciences & Agronomy, Hebrew University of Jerusalem, Rehovot 76100 (Israel), e-mail: rubin@agri.huji.ac.il, <http://www.agri.huji.ac.il/aridconference>
- 16 - 18 October, 2006: 5th meeting of the Sub-Group "Soil Insect Pests" (previously: Sub-Group "Melolontha") of the IOBC/wprs WG "Entomopathogens and entomoparasitic Nematodes", Research Centre for Agriculture and Forestry, Laimburg, 39040 Auer/Ora (Italy). – Local organiser: Dr. Wolfgang Schweigkofler, Department of Plant Protection, Research Centre for Agriculture and Forestry, Laimburg, 39040 Auer/Ora (Italy), e-mail: wolfgang.schweigkofler@provinz.bz.it. Convenor Sub-group: Dr. Jürg Enkerli, Molecular Ecology, Agroscope Reckenholz-Tänikon Research Station ART, Reckenholzstrasse 191, 8046 Zürich, Switzerland, Phone +41(0)1 377 7206, Fax +41(0)1 377 7201, e-mail: juerg.enkerli@art.admin.ch, <http://www.laimburg.it/en/6840.htm>
- 23 - 24 October, 2006: Inaugural Annual Biocontrol Industry Meeting (ABIM), Lucerne (Switzerland). – Registration and information about ABIM: www.abim-lucerne.ch
- Under the sponsorship of Mrs. Mariann Fischler Boel, European Commissioner for Agriculture, the International Biocontrol Manufacturers Association (IBMA) and the Research Institute of Organic Agriculture (FiBL), announce to the biological plant protection world a new meeting place for:
- presentation of new products, agents, systems, solutions
 - discussion of topics of common interest
 - people, companies and private business meetings.
- ABIM-Lucerne invites producers, distributors, researchers, consultants and users, environmentalists, opinion leaders, regulators, and academia. Starting in October 2006, ABIM-Lucerne will take place annually at the prestigious Lucerne Culture and Convention Centre (KKL). The meeting is associated with the IBMA's Annual General Assembly and national associations meetings. Facilities are available for stands, posters and private business discussions.
- 23 - 25 October, 2006: The BCPC Conference & Exhibition – Crop Science and technology 2006, Glasgow (UK). – becky.dyer@bcpc.org, <http://www.bcpc.org/>
- 05 - 08 November, 2006: 22nd Conference of the International IOBC Working Group of Ostrinia and other Maize Pests (IWGO), Vienna (Austria). – conference@iwgo.org, Dr. Uli Kuhlmann, CABI Bioscience Switzerland Centre, Rue des Grillons 1, 2800 Delémont (Switzerland), Tel +41-32-4214882, e-mail: U.Kuhlmann@cabi.org, www.iwgo.org/conference/Vienna_2006/

2007

- 12 - 14 March, 2007: 1st Meeting of the IOBC/wprs Study-Group "Integrated Control of Plant Feeding Mites", Jerusalem (Israel). – Dr. Phyllis Weintraub, e-mail: phyllisw@volcani.agri.gov.il
- 10 - 14 May, 2007: International Joint Workshop of the IOBC/wprs Working Group "Induced Resistance In Plants Against Insects and Diseases" and the "PR-proteins Workshop". on "PR-proteins" and "Induced Resistance in Plants against Pathogens and Insects", Doorn (The Netherlands). – www.unine.ch/bota/iobc (button "next meeting") or contact either CORNÉ PIETERSE (C.M.J.Pieterse@bio.uu.nl), MARCEL DICKE (marcel.dicke@wur.nl) or ANNEGRET SCHMITT (a.schmitt@bba.de).
- 23 - 25 May, 2007: 3rd Meeting of the IOBC/wprs Working Group "GMOs in Integrated Plant Production", Warsaw (Poland). – Jörg Romeis (WG convenor), Agroscope Reckenholz-Tänikon Research Station ART, Reckenholzstr. 191, 8046 Zurich, Switzerland, Tel.: +41-(0)44-377 72 99, Fax: +41-(0)44-377 72 01, E-Mail: joerg.romeis@art.admin.ch
- May, 2007: 3rd Meeting of the IOBC/wprs Working Group "Integrated Protection of Olive Crops", Braganca (Portugal). – Local Organizer: JOSE ALBERTO PEREIRA, CIMO/Escola Superior de Braganca, PO Box 1172, 5301-855 Braganca (Portugal), e-mail: jpereira@ipb.pt
- 24 - 27 June, 2007: WG "Multitrophic Interactions in Soil", Dijon (France). – Christian Steinberg, INRA-Université de Bourgogne, UMR Microbiologie et Géochemie des Sols, CMSE, 17 rue Sully - BP 86510, 21065 Dijon Cedex (France), Tel. +33-(0) 380-693050, Fax +33-(0) 380-693224, e-mail: steinberg@dijon.inra.fr
- 20 - 23 August, 2007: WG "Integrated Protection of Stored Products", Poznań (Poland). – Local Organizing Committee: Dr. Danuta Sosnowska, Department of Biocontrol & Quarantine, Institute of Plant Protection, Poznań (Poland), Tel :+48-61-864-90-73, fFax: +48 61-867-63-01, e-mail: D.Sosnowska@ior.poznan.pl
- September (last week), 2007: Meeting of the IOBC/wprs WG "Integrated Control in Citrus Fruit Crops", Catania (Italy). – Prof. Gaetano Siscaro, from the Dipartimento di Scienze e Tecnologie Fitosanitarie, Sez. Entomologia agraria, University of Catania.
- 15 - 18 October, 2007: 16th International Plant Protection Congress *in association with the BCPC International Congress - Crop Science & Technology 2007*, Glasgow (UK). – md@bcpc.org, <http://www.bcpc.org/>
- October, 2007: 5th Meeting of the IOBC/wprs WG "Integrated Protection in Oak Forests", Tlemcen (Algeria). – Claire Villemant, MNHN Entomologie, ESA 8043, 45 rue Buffon, 75005 Paris (France), Tel. +33-140793841, Fax. +33-1-40793699, e-mail: villeman@mnhn.fr
- October, 2007: 3rd Meeting of the IOBC/wprs WG "Integrated Protection of Olives Crops", Braganca (Portugal). – Chairperson: Jose Alberto Pereira. CIMO/Escola Superior de Braganca, PO Box 1172, 5301-855 Braganca (Portugal). E-mail: jpereira@ipb.pt
- 2007 WG "Insect Pathogens and Entomoparasitic Nematodes", Alès (France). – Local Organizer: Dr. Miguel Lopez-Ferber, e-mail: miquellopez@ema.fr

2008

- 21 - 25 April, 2008: WG "Integrated Control in Protected Crops, Temperate Climate", Sint Michielsgestel (The Netherlands). – www.ruwenberg.nl; Local organizers: Pierre Ramakers, Marieke van der Staaij, Gerben Messelink: Gerben.Messelink@

wur.nl, Applied Plant Research. Jeroen van Schelt, Koppert Biological Systems.
WG Convenor: Annie Enkegaard, Danish Institute of Agricultural Sciences, e-mail:
annie.enkegaard@agrsci.dk

2008 WG "Integrated Control in Protected Crops, Temperate Climate", Bleiswijk (The Netherlands). – Local organiser: Pierre Ramakers.

Dr. Ernst Boller: Honorary Member of IOBC/wprs

During the General Assembly of WPRS in September 2005, Dr. Ernst Boller was elected honorary member for his many years contributions to IOBC/wprs, and in particular for his excellent work in developing the Guidelines for Integrated Production.



Job News

Diptera (Insecta) Bioinformatics Post-Doctoral Fellowship

A post-doctoral fellowship is available at the Smithsonian Institution, Department of Entomology. The fellowship includes a \$40,000 stipend and health insurance. Initial funding is available for one year, subject to possible renewal. For general information on Smithsonian fellowships see (http://www.nmnh.si.edu/rtp/other_opps/).

The Biosystematic Database of World Diptera is the authoritative source for the names of flies. Diptera, an insect order, represents about 10% of the World's biodiversity and is one of the most critically important groups in respect to man. The BDWD provides a framework to index and integrate current and future information and is a resource to ensure that knowledge about flies is easily accessible to all. Today over a quarter million name records are available in a Nomenclator with some 20,000 references (see <http://www.diptera.org/biosys.htm>).

Opportunities include facilitating communications and cooperation among various contributors and the editorial team; assisting contributors in information gathering and publishing their contributions; building and maintaining BDWD reference materials and literature files; expanding and maintaining the BDWD web site; providing administrative support for the BDWD and representing BDWD at various national and international meetings. Fellow will be expected to work on their own group of flies as an active contributor.

Qualifications: PhD in Systematic Entomology, experience in team research, excellent written and oral communications skills, self-starter. Web site development and database management skills as well as strong background in Diptera Systematics and Nomenclature are critical.

Fellowship is located at Smithsonian's National Museum of Natural History on the Mall in downtown Washington, D. C. The position is available 1 November 2006. Electronic applications are required and must be sent to:

cthompso@sel.barc.usda.gov.

Send a 2 paged research proposal describing how your work and experience will contribute to BDWD project goals; a NSF-style 2 page Biographical Sketch (Resume/CV, see pages 20-21 of

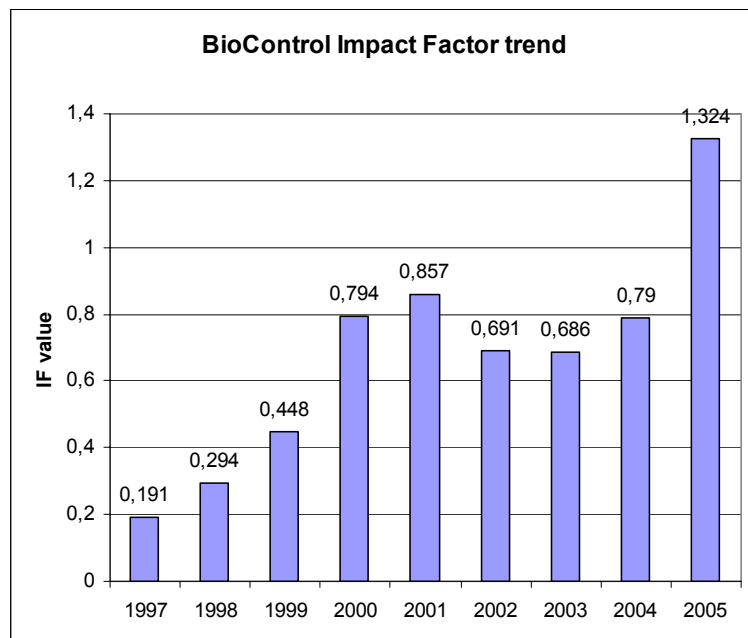
http://www.nsf.gov/pubs/2003/nsf03041/nsf03_041.pdf

along with the names with addresses (e-mail) of three professional references. Application should be received by **15 September 2006**. No telephone calls.

F. Christian Thompson
Entomology Section, National Museum of Natural History
Smithsonian Institution NHB-0169
PO Box 37012
Washington, D. C. 20013-7012 USA

BioControl reaches a higher Impact Factor

BioControl (formerly **Entomophaga**), the scientific journal of IOBC, has reached a citation index of 1.3 in 2005. This is the highest value ever reached since the first published issues in 1997. After a steady increase in the first years, starting with 0.2, the index reached a stable level of about 0.8. The jump of last year on 1.3 is of course a very positive development and we congratulate the editor-in-chief, HEIKKI HOKKANEN, and all the assistant editors who have much contributed to increase



the quality of BioControl. We also want to thank all those scientists who have served as reviewers of articles submitted to the journal. If you choose BioControl to publish your high quality articles, you will contribute to increase the journal's citation index and as such, indirectly to the reputation of IOBC.

Franz Bigler (Reckenholz, Switzerland)

Winkler, K. (December 2005): Assessing the risks and benefits of flowering field edges: strategic use of nectar sources to boost biological control. – PhD thesis Wageningen University, Laboratory of Entomology, The Netherlands.

The intensification of agricultural production systems during the last decades had a enormous impact on the landscape structure in agro-ecosystems. Landscape elements like hedges and vegetational rich fieldmargins dissapeared and crops are cultivated in large monocultures. To let beneficial insects play a role in these 'ecological deserts' and to fulfill their food requirements in form of pollen and nectar the establishment of flowering field edges gets increasingly popular.

But not everything that flowers is naturally exclusively positive for beneficial insects. Pest insects can profit from flowering field edges as well. In my PhD research I analysed a number of nectar plants with respect to their potential benefit for cabbage pests and/or their natural enemies. In field studies I observed the attractivity of nectar plants for pest insects and beneficial insects. In the laboratory I studied in how far the plant species differ in their nectar accessibility and their impact on insect longevity. In addition, I examined the impact of different nectar and honeydew sugars on the gustatory response and the longevity of the insects.

Based on the results I found, I conducted field experiments with plants that provide food for either the herbivores or for the beneficial insects. I collected individuals of the diamondback moth *Plutella xylostella* and its parasitoid *Diadegma semiclausum* and tested them for their sugar content. The results indicated food uptake in the field for both species. I also could show in a field experiment, that suitable nectar plants, such as buckwheat, have an enormous positive impact on longevity and fecundity of the parasitoid *D. semiclausum*. In addition, I could demonstrate that nectar plants that selectively are used by herbivores, such as *Centaurea jacea* by the cabbage white *Pieris rapae*, can lead to higher pest densities in adjacent cabbage plantings. My most important conclusion is therefore that a selective approach and a careful choice of plant species are necessary to achieve improved biological control by flowering field edges.

A pdf version of this thesis can be obtained from karin.winkler@wur.nl

Additional information in the **IOBC Newsletter 79** – March 2006

<http://www.unipa.it/iobc/downlaod/newsletter79.pdf>

IOBC Internet Book of Biological Control – Version 3, March 2006

Edited by: J.C. van Lenteren

This book presents the history, the current state of affairs and the future of biological control in order to show that this control method is sound, and sustainable. Please download:

<http://www.unipa.it/iobc/downlaod/InternetBook3March2006.pdf>

Environmental Impact of Invertebrates for Biological Control of Arthropods: Methods and Risk Assessment

Edited by F. Bigler, D. Babendreier and U. Kuhlmann

Classical biological control of insects, where exotic natural enemies are introduced to control exotic pests, has been applied for more than 120 years, and the release of natural enemies has resulted in the permanent reduction of at least 165 pest species worldwide. Augmentative biological control, where exotic or native natural enemies are periodically released, has been used for 90 years, and more than 150 species of natural enemy are available on demand for the control of about 100 pest species. This book responds to the growing need to assess non-target impacts of biological control agents. The aim is, first to compile the current knowledge of methodologies used for assessing environmental impacts of invertebrate biological control agents and, secondly, to advise on how to perform science-based risk assessments which might be required for future regulation of such organisms. This book will be of significant interest to the scientific community involved in biological control and integrated pest management, but also for commercial companies producing biological control agents, for risk assessors and for regulatory authorities around the world.

Bigler, F., D. Babendreier & U. Kuhlmann (eds., 2006): Environmental impact of invertebrates for biological control of arthropods: methods and risk assessment. – 288 pp., Wallingford (CABI Publishing), £ 60.00 (ISBN 0851990584).

Next Issue of Profile

The winter-issue of Profile (number 42) will be edited in January 2007. Please send your contributions (reports from meetings and announcements for meetings, interesting scientific results, new books and others) for this issue of Profile to me at the latest:

15 December, 2006

but don't hesitate to contact me long before this deadline! Please send Announcements of Meetings as early as possible to the editor of Profile and to our Webmaster, Madeleine Bühler (madeleine.buehler@e-maintenance.ch). Please send your contributions for Profile by e-mail (preferably), on CD or as fax to:

Dr. Horst Bathon
Institute for Biological Control
Heinrichstrasse 243
64287 Darmstadt (Germany)

e-mail: h.bathon@bba.de
Tel +49-6151-407225
Fax +49-6151-407290



www.iobc-wprs.org