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# PROFILE

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**International Organization for Biological and Integrated Control of  
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## The Presidents Page

Dear reader,

Access to biological control agents to combat pest organisms is a major prerequisite for biological control. Free access for collecting and shipping biocontrol agents to regions in which alien species have established and reached pest status was not questioned in the past. This may change in the future when the Convention on Biological Diversity (CBD) gets more and more established and implemented by national governments in developing and developed countries. Let me shortly explain the present situation:

The CBD was opened for signature by governments at the United Nations Conference on Environment and Development in Rio de Janeiro in June 1992, and currently about 190 countries signed the Convention. The principal objectives of the CBD are the conservation and sustainable use of biological diversity, and the fair and equitable sharing of benefits arising from its utilization. Article 15 and 8 (j) of the CBD lay down the principles of access to genetic resources and the sharing of benefits arising from commercial and other utilization of biodiversity in a fair and equitable way. A working group on Access and Benefit Sharing (ABS) was established in 2000 by the governing body of the CBD with a mandate to develop guidelines and other approaches to assist governments and stakeholders with the implementation of the respective provisions of the Convention. Since then, the ABS working group has developed the Bonn guidelines and other documents that are relevant to implement fair and equitable sharing of the biodiversity. It is expected that the ABS working group will complete and finalize the elaboration and negotiation at the earliest possible time before the next Conference of the Parties (COP) which is planned in 2010.

Biological control is obviously one of the activities that make use of biological diversity, and it is therefore subject to the CBD. Governments and respective authorities may not be familiar with biological control and its rules and mechanisms, and they may therefore be cautious when stakeholders ask for access to potential biocontrol organisms in their country. The CBD empowers national governments to institute legislation that seriously may impede any collecting of biocontrol agents, be it for scientific studies or for exports to serve direct biocontrol purposes. Decision makers in developing countries may not be aware that access to biocontrol agents in one country may effect tremendous long term benefits for millions of poor in other developing countries without any commercial benefit to those who import and release the agents. As classical biocontrol programmes are accomplished by governments and other non-profit bodies, it should not be expected that such projects will return commercial profit to countries of origin of biocontrol agents. This would be in contradiction to the CBD itself, which calls in several articles for cooperation of the parties to the benefit of all.

Inappropriate regulation of access and benefit sharing may impede mutual benefits of research and application of biological control in developing and developed countries. This would be mainly to the disadvantage of the poor for which biocontrol can be a question of life or death.

Implications of the CBD and especially of ABS for biological control were discussed at a workshop during the International Congress of Entomology in Durban, South Africa in July 2008. The workshop was initiated by scientists of the International Institute for Insect Physiology and Ecology (ICIPE) in Nairobi and attended by representatives of other organisations, including the newly elected President of IOBC Global and myself. The participants agreed that IOBC would be the appropriate organisation to take leadership in this issue. An action plan was drafted at the end of the workshop.

Franz Bigler

# IOBC/ WPRS

## Commissions, Working groups, Study groups

January, 2008

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. / AVILLA J.	
<i>SG IFP guidelines</i>	MALAVOLTA C.	
<i>SG pome fruit diseases</i>	STENSVAND A.	
<i>SG stone fruits</i>	MOLINARI F.	
Pesticides and beneficial organisms	JANSEN J.P.	VOGT H.
Breeding for plant resistance to pests and diseases	BIRCH N.	TIRRY L.
Pheromones and other semiochemicals in integrated production	TASIN M.	VOGT H.
Multitrophic interactions in soil	STEINBERG C.	WHIPPS J.
Integrated protection in viticulture	CALONNEC A. / LUCCHI A.	BLUEMEL S.
<i>SG insects</i>	THIÉRY D. / MAIXNER M.	
<i>SG fungal, bacterial and physiological diseases</i>	GESSLER C. / KASSEMAYER H.	
<i>SG integrated pest management</i>	ZAHAVI T. / DUSO C.	
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	CASTAÑÉ 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	ATHANASSIOU C.G.	WEINTRAUB P.
Integrated protection of olive crops	KALAITZAKI A.	WEINTRAUB P.
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.
Integrated control of mite pests	PALEVSKI E.	BLUEMEL S.

### Study group

Benefits and risks associated with exotic biological control agents	ROY H. / KENIS M.	SIGSGAARD L.
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## **IOBC/wprs COMMISSIONS AND WORKING GROUPS**

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### **Working Group**

### **“Integrated Control in Protected Crops, Temperate Climate” Report of the meeting in Sint Michielsgestel, The Netherlands, 21-25 April 2008**

The WG had its triennial meeting (13<sup>th</sup> full meeting) in April 2008 in Sint Michielsgestel, The Netherlands, organised by ANNIE ENKEGAARD, convenor of the WPRS Glasshouse WG, the liaison officer, Prof. MOHAMED BESRI, and a team of local organisers (GERBEN MESSELINK, PIERRE RAMAKERS, JULIETTE PIJNAKKER, MARIEKE VAN DER STAAIJ, ANTON VAN DER LINDEN (Wageningen UR Greenhouse Horticulture) and JEROEN VAN SCHELT (Koppert Biological Systems)). Many thanks are due to the local organisers for their hard work and for their excellent organisation, which ensured a scientifically and socially inspiring stay in the Netherlands. The meeting was attended by ~135 participants (advisors, scientists, beneficial producers) from 31 countries/states, including – besides European states – USA, Canada, New Zealand, Australia, Brazil, Iran, Israel, and Japan. The meeting has further strengthened the contact and cooperation between the group members. The sessions of the meeting dealt with topics like *New biocontrol agents; Alternative food and IPM; Biological and integrated control of thrips, whiteflies, aphids, mites, leafminers* etc; *IPM in ornamentals; Pest management in organic production; Food web interactions and IPM; Microbial control of pests*. The successful session from the previous meeting (Naantali, Finland, 2005) on IPM in outdoor and hardy nursery stocks was repeated as an additional ½ day session.

The WG Student Award, instituted at the meeting in Victoria, BC, in 2002 to recognise contributions from the new generations of greenhouse IPM workers, was once more awarded after a contest between Master and PhD students to deliver the best manuscript for the Bulletin.

The meeting included a full day excursion to greenhouses in the southern part of The Netherlands with visits to a number of premises growing vegetables, ornamentals and berries implementing biological and integrated control in addition to a visit to Wageningen UR Greenhouse Horticulture at Bleiswijk. The excursion gave the opportunity to learn more about the practical use of IPM in the Netherlands, including some of the high-tech implementations in greenhouse production. As always, the excursion further stimulated discussions and exchange of information and experiences among the participants.

At the end of the meeting IRENE VÄNNINEN, Agrifood Research Finland (MTT) was

nominated as new convenor of the WG to replace ANNIE ENKEGAARD, University of Aarhus, Research Centre Flakkebjerg, who had served her full term of 9 years.

For further information, please see the meeting proceedings (IOBC/wprs Bull. 32, 2008), the special edition of the WG Newsletter Sting (Sting 31) as well as the upcoming issue of Sting (Sting 32) with summaries from the sessions (available around July 2008).

The **next meeting of the WG** will be held in the **UK, 2011**. The local organising team will include ROB JACOBSON (RJC Ltd), JUDE BENNISON (ADAS), RICHARD GREATREX (Syngenta Bioline), PHIL WALKER (independent consultant) and NEIL HELYER (Fargro Ltd UK).

For further information about the WG "Integrated Control in Protected Crops, Temperate Climate" please contact the new convenor: Irene Vänninen, MTT, Plant Production Research, Plant Protection, 31600 Jokioinen, phone +358 3 4188 2580, telefax +358 3 4188 2584, email: [irene.vanninen@mtt.fi](mailto:irene.vanninen@mtt.fi) and/or the liaison officer, Prof. Mohamed Besri, Tel/Fax: 212 37 778364, email: [m.besri@iav.ac.ma](mailto:m.besri@iav.ac.ma)

Report made by: Annie Enkegaard, University of Aarhus, Research Centre Flakkebjerg, Denmark

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## **Working Group "Integrated Control in Oilseed Crops"** **The next Biannual Working Group Meeting: 29 September - 1 October 2008, FIAP, Paris, France**

The meeting will cover all aspects of integrated protection of oilseed crops. As usual, there will be a major focus on oilseed rape. There will be sessions on pest and disease management as well as a session(s) on breeding/genetic improvement and agronomy.

We are eager to receive your contribution! Please send us the title of your proposed contribution and whether you prefer to give it as a poster or oral presentation – the deadline for this is 30th of June 2008. The deadline for sending the abstracts of your contribution will be 31st of July 2008. We hope to give everyone their first choice of format for presentations but due to time limitations we may ask that some offered oral contributions are given as posters. Both oral presentations and posters can be written up as full papers for inclusion in the IOBC /wprs Bulletin. We ask you to submit the full papers before or at the meeting in order to avoid a long delay between the meeting and publication of the bulletin.

Registration will be open from the 10th of July and will close September 15th and will be arranged via the CETIOM web site. Registration fees will be 100 Euros for IOBC members, 150 Euros for non-members and 50 Euros for students and will include 2 lunches, coffee breaks and book of abstracts. Small refunds may be made available for students as well as to scientists from Eastern European countries upon application to Birger Koopmann. An official dinner and visit to the Natural History Museum will also be available.

### **Summary of important information:**

- The meeting will take place at FIAP, Paris, France  
<http://www.fiap.asso.fr./index.html>;

- Please arrange your accommodation in FIAP (reasonable prices, <http://www.fiap.asso.fr./index.html>) or in any hotel of your choice ([PDF list of hotels in Paris for download icluding prices, hyperlinks etc..](#))
- FIAP access – metro map, hotel map and location of the meeting place ([PDF file for download](#))
- Details on preparation of abstracts and full papers are available at <http://www.iobc-wprs.org/pub/index.html>
- Convenors: Birger Koopmann (University of Göttingen, Germany) & Sam Cook (Rothamsted Research, United Kingdom)
- Local organizer: Xavier Pinochet ([CETIOM](#), Grignon, France)
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### Important dates

30th June Deadline for title of proposed oral/poster presentation  
 10th July Registration opens via Cetiom web site <http://www.cetiom.fr/>  
 31st July Deadline for abstracts  
 15th September Deadline for registration  
 1st October Deadline for full papers

Please send submissions to each of the three following email addresses:

- [bkoopma@gwdg.de](mailto:bkoopma@gwdg.de)
- [sam.cook@bbsrc.ac.uk](mailto:sam.cook@bbsrc.ac.uk)
- [pinochet@cetiom.fr](mailto:pinochet@cetiom.fr)

News will be available from the Working Group web page  
<http://wwwuser.gwdg.de/~iobc/index.html>

Sam Cook and Birger Koopmann

## **Working Group “GMOs in Integrated Plant Production” 4th EIGMO (Ecological Impact of Genetically Modified Organisms) Meeting: 14-16 May 2009, Rostock, Germany**

The 4th EIGMO meeting by the IOBC/WPRS Working Group “GMOs in Integrated Plant Production” will take place from 14-16 May 2009 at Rostock (Germany). The meeting will be organized by THOMAS THIEME from the BTL Bio-Test Laboratory in cooperation with BioOK (KERSTIN SCHMIDT) and institutes of the University of Rostock. 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 three earlier meetings, in November 2003 in Prague, Czech Republic, in June 2005 in Lleida, Spain, and in May 2007 in Warsaw, Poland. The meetings had been a great success with up to 100 participants from more than 20 countries attending each meeting. Contributions from the first two meetings have been

published in the IOBC/WPRS Bulletin 27(3) (2004) and 29(5) 2006. The proceedings from the last meeting in Warsaw are currently in press.

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; [ramon.albajes@irta.es](mailto:ramon.albajes@irta.es))

FRANZ BIGLER (Agroscope Reckenholz-Tänikon Research Station ART, Zurich, Switzerland; [franz.bigler@art.admin.ch](mailto:franz.bigler@art.admin.ch))

ALAN RAYBOULD (Syngenta, Bracknell, UK; [alan.raybould@syngenta.com](mailto:alan.raybould@syngenta.com))

JÖRG ROMEIS (Agroscope Reckenholz-Tänikon Research Station ART, Zurich, Switzerland; [joerg.romeis@art.admin.ch](mailto:joerg.romeis@art.admin.ch))

THOMAS THIEME ( BTL Bio-Test Laboratory, Sagerheide, Germany; [tt@biotestlab.de](mailto:tt@biotestlab.de))

Representative of a regulatory authority (n.n.)

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.

### **Special activity on non-target risk assessment and regulation**

This activity has resulted in clear method to identify, acquire and evaluate the necessary and sufficient data for effective non-target risk assessment for insecticidal GM crops and decision-making. The approach has been published this year in Nature Biotechnology (Romeis et al., 2008, Nature Biotechnology 26, 203-208).

The risk assessment approach has been presented at a side event co-organized with PBS (Program for Biosafety Systems) ([www.ifpri.org/pbs/pbs.asp](http://www.ifpri.org/pbs/pbs.asp)) during the MOP4 (Fourth Meeting of the Conference of the Parties to the Convention on Biological Diversity Serving as the Meeting of the Parties to the Cartagena Protocol on Biosafety) ([www.cbd.int/biosafety](http://www.cbd.int/biosafety)) meeting in Bonn, Germany in May 2008. Following a general presentation of the proposed risk assessment approach, BONIFACIO F. CAYABYAB from the University of the Philippines Los Baños presented a case-study where the approach was successfully applied to assess the non-target risks of Bt maize in The Philippines. The following discussion remained purely scientific and was very constructive. Overall the side-event was well attended and also attracted some official country delegates.

The aim to develop a practicable, rigorous and efficient risk-assessment framework that will be particularly useful for countries where the regulatory infrastructure is still being established was overall welcomed by the participants.

Jörg Romeis (convenor),

Agroscope Reckenholz-Tänikon Research Station ART, Zurich, Switzerland

**Working Group  
“Integrated Control in Protected Crops, Mediterranean  
Climate” Next Meeting:  
6-11 September, 2009. Chania, Crete (Greece)**

Next meeting of this working group will be organized by our Greek colleagues led by Dr. DIONYSSIOS PERDIKIS from the Agricultural University of Athens. The meeting will be held in the summer of 2009 at the Mediterranean Agronomic Institute of Chania (MAICh). This is one of the most beautiful cities of Greece which is located at the north-eastern part of Crete Island (see also <http://www.chania.gr/>, <http://www.crete.tournet.gr/>, <http://www.info-creta.gr/>, <http://www.creteisland.gr/>, <http://www.click.gr/>). The Institute is located 3km south-east of the city centre and 13 km from the airport. It is well communicated with Athens since there are several flights per day.

In the excursion day we will visit important agricultural areas with protected crops located east of Chania and in Heraklion (central Crete) and possibly also the famous ruins of Knossos, the ancient capital of Crete. I encourage those of you interested in this meeting to keep in mind these dates.

**Convenor:**

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**Working Group “Induced Resistance in Plants against  
Insects and Diseases”  
5th Meeting: 12 – 16 May, 2009. Granada (Spain)**

The IOBC/WPRS working group “Induced Resistance in Plants against Insects and Diseases” will hold its 5<sup>th</sup> meeting from 12 to 16 May 2009 in Granada, Spain.

The meeting will cover all aspects of induced resistance and induced tolerance. This time, however, a special emphasis will be placed on chances and limits of induced resistance/induced tolerance, such as:

- Chances and limits in multitrophic interactions
- Chances and limits of model systems
- Chances and limits in crop protection

The meeting is open to presentations of work on fundamental and applied aspects, dealing with insects, diseases and stresses.

For further information see: [www.fvccee.uji.es](http://www.fvccee.uji.es)

## Working Group

### “Integrated Protection of Stored Products” Next Meeting: 29 June – 2 July, 2009. Campobasso (Italy)

Our next WG meeting will take place in University of Molise, Campobasso, Italy, June 29 - July 2, 2009. For further details, the first circular is at <http://www.iobc-wprs.org/events/index.html>

The topics of the IOBC/WPRS Working Group on "Integrated Protection of Stored Products" are:

- 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
- wood-boring, urban, quarantine and museum pests

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## Post doc position in Burgundy, France

A post doc position (1 year), supported by the Burgundy region in France, is offered for a non French student, (and non previously salaried in France) at the Laboratory of Microbiology of Soil and Environment, UMR INRA-Université de Bourgogne, Dijon, France. The project is supervised by V. Edel-Hermann and C. Steinberg.

The project is going to start on September 2008 at the earliest and before December 2008 as the deadline. A CV (name, birth date, nationality and address in the origin country) and a copy of the PhD diploma (<5 years) are required first.

Wages are 2000 € monthly.

For detailed information, please contact

Christian Steinberg ([christian.steinberg@dijon.inra.fr](mailto:christian.steinberg@dijon.inra.fr), tel +33 (0) 380 69 30 50) or/and  
Véronique Edel-Hermann ([veronique.edel@dijon.inra.fr](mailto:veronique.edel@dijon.inra.fr), tel +33 (0) 380 69 34 50)

The framework of the project is described below:

### **Biodiversity and microbiogeography of *Fusarium* communities in the soils of Burgundy**

*Fusarium* group includes many species of fungi among which some are pathogenic towards various crops belonging to different plant species of agro-environmental interest (vegetables, cereals, legumes, ornamentals) (Summerell et al 2001). Some of the pathogenic species produce mycotoxins which are quite deleterious for human and animal consumption (Champeil et al 2004). Interestingly, this group also includes

species or populations which are non pathogenic and can be used as efficient biocontrol agents (Alabouvette et al 2007). Although *Fusarium* species are abundant in most of the soils, no aboveground-belowground relationship has been established allowing to predict the putative occurrence of pathogenic or non pathogenic species of *Fusarium* as well as to manage the structure of *Fusarium* communities in the soil in favour of auxiliary species through agricultural practices.

The project aims at investigating the community structure and the diversity of *Fusarium* species in various soils to establish a microbiogeographic distribution of the diversity of the genera and to establish a relationship between the environmental factors (including soil, climate, cultivated and wild plants and anthropogenic activities) and the occurrence of the different species of *Fusarium* sp. This project is part of National Network of Soil Quality Assessment (Réseau de Mesure de la Qualité des Sols). In this frame, the investigation will focus on the 100 samples of the Burgundy region. The analysis of DNA from soils which have not yet been cultivated may also provide samples that preserved the ancestral diversity including the populations prevailing the happening of pathogenic formae speciales within the *F. oxysporum* species. This can provide both knowledge on the evolution of *F. oxysporum* sp. for instance and putative effective biocontrol agents.

The diversity of communities of *Fusarium* spp in the soil will be evaluated using a combination of approaches based on the analyses of DNA extracted from soil samples (WP1) to reveal the i) diversity the gene coding for the elongation factor EF-1 $\alpha$ , whose sequences are variable among the *Fusarium* species (O'Donnell et al. 2004, Vujanovic et al. 2006), ii) to establish the structure of the *Fusarium* communities of the soil samples using the TRFLP (terminal restriction fragment length polymorphism) procedure (Liu et al. 1997, Edel-Hermann et al. 2004).

Because the first procedure is time and money consuming, it will be used to validate the identification of the *Fusarium* species in a limited number of samples (three soil types from different geographic origin) and to establish a reliable relationship with the fingerprints provided by the TRFLP analyses. The later will be then applied to a larger number of soil samples. Moreover, some isolates obtained using various elective media will also be analyzed by classical identification procedure and the molecular approach to consolidate the patterns provided by the capillary electrophoresis of the TRFLP procedure.

- Alabouvette, C., Olivain, C., L'Haridon, F., Aimé, S., and Steinberg, C. 2007. Using strains of *Fusarium oxysporum* to control fusarium wilts: dream or reality? – In: *Novel Biotechnologies for Biocontrol Agent Enhancement and Management*, edited by M. Wurro and J. Gressel: Springer, 157-177.
- Champeil, A., Fourbet, J.F., Dore, T., Rossignol, L. 2004 Influence of cropping system on Fusarium head blight and mycotoxin levels in winter wheat. – *Crop Protection* 23, 531-537.
- Edel-Hermann, V., Dreumont, C., Pérez-Piquerez, A., Steinberg, C. 2004 Terminal restriction fragment length polymorphism analysis of ribosomal RNA genes to assess changes in fungal community structure in soils. – *FEMS Microbiology Ecology* 47, 397-404.
- Liu, W.-T., Marsh, T.L., Cheng, H., Forney, L.J. 1997 Characterization of microbial diversity by determining terminal restriction fragment length polymorphisms of genes encoding 16S rRNA. – *Applied and Environmental Microbiology* 63, 4516-4522.
- O'Donnell, K., Ward, T.J., Geiser, D.M., Kistler, H.C., Aoki, T. 2004 Genealogical concordance between the mating type locus and seven other nuclear genes supports formal recognition of nine phylogenetically distinct species within the *Fusarium graminearum* clade. – *Fungal Genetics and Biology* 41, 600-623.
- Summerell, B.A., Leslie, J.F., D., B., Bryden, W.L., Burgess, L.W. 2001 *Fusarium*. – Paul E. Nelson Memorial Symposium, 392 pp. APS Press, St. Paul, Minnesota.
- Vujanovic, V., Hamel, C., Yergeau, E., St-Arnaud, M. 2006 Biodiversity and Biogeography of *Fusarium* Species from Northeastern North American Asparagus Fields Based on Microbiological and Molecular Approaches. – *Microbial Ecology* 51, 242-255.



## Working Group

### “Integrated Protection of Olive Crops”

#### 4<sup>th</sup> European Meeting: June 1 – 4, 2009. Córdoba (Spain)



The aim of the meeting is to provide a forum for openly discussing on knowledge currently available above pests, diseases and weeds affecting olive groves worldwide. During the last few years, an increasing concern has been repeatedly shown of the needs to develop control strategies for the efficient management of olive pests, diseases and weeds which are convincingly compatible with new forms of agricultural production, including Sustainable and Organic or Ecological Agriculture. Also, challenges are to be faced concerning the impact of the Global Climatic Change on the development of olive pests, diseases and weeds, as well as their management strategies.

Consequently, the main topics of the meeting are:

- Biology, ecology and behavior of arthropods associated to the olive grove
- Population detection and assessment of pests and their natural enemies
- Monitoring systems: attractants and traps
- Olive diseases caused by bacteria, fitoplasma, fungi and straminopiles, nematodes, and viruses: Etiology and Epidemiology
- Spatio-temporal analyses of olive pests and diseases
- Genetic diversity of olive pest and disease agents
- Plant-parasite interactions in olive pests and diseases
- Chemical control: efficacy, selectivity, resistance and side effects
- Biological and biotecnological methods for the control of pests and diseases
- Integrated pest and disease control strategies
- New problems in the integrated management of olive pests, diseases and weeds
- Pest and disease control in ecological olive growing
- New methods for the diagnosis and identification of olive pest and disease agents, and certification of olive planting stocks
- Effect of climatic change on olive pest and disease incidence

This event is intended to provide a stimulating platform for the exchange of multidisciplinary research results dealing with improving olive protection. The meeting will include oral presentations and poster sessions.

Authors wishing to participate at the Congress are requested to submit the preliminary registration form indicating their field of research and a tentative title using the website of congress ([www.protecolcordoba2009.com](http://www.protecolcordoba2009.com)) **before September 30, 2008.**

Proceedings of the meeting will be published in the IOBC/WPRS Bulletin.

We are looking forward to seeing you in Cordoba

The Organizing Committee

## **IOBC/wprs Working Group “Integrated Plant Protection in Fruit Crops” Convenor: Jerry Cross**

**7<sup>th</sup> International Conference on Integrated Fruit Production,  
27-30 October 2008, Avignon, France**

Dear Colleagues,

Four years will soon be up since the last excellent meeting of our whole Working Group in Baselga di Pine, Trentino in 2004. The next meeting will be organised in Avignon, France in October 2008 with generous help from BENOÎT SAUPHANOR and colleagues from INRA. The conference will take place in the historic Pope's Palace in the centre of Avignon. There will be parallel sessions for entomology and plant pathology topics. Themes will include:

- Integrated fruit production: state of the art and new avenues
- Use of BCAs and semiochemicals in the integrated fruit protection
- Functional biodiversity and its enhancement
- Pest/pathogen – crop – landscape interactions
- Pesticide resistance and its integrated management and control
- Organic fruit production
- Pome fruit diseases/arthropod pests (parallel sessions)
- Pesticide issues including shortages and residues

The meeting will start with registration on the evening of Monday, October 27, followed by 3 days for scientific sessions and an excursion. Papers for presentations will be published after review in the IOBC/wprs Bulletin. The second circular with a call for abstracts and information about location, registration, accommodation, and paper preparation will be sent by e-mail in March 2008.

Please inform your colleagues about this important conference and complete the pre-registration form and return it by 1 March 2008 to Dr Benoît Sauphanor [[benoit.sauphanor@avignon.inra.fr](mailto:benoit.sauphanor@avignon.inra.fr)], INRA-PSH, Domaine Saint Paul, Site Agroparc, F-84914 - Avignon Cedex 9 (France), Tel 33 (0)432722607, Fax 33 (0)432722432

Yours truly

Organizing and Scientific committee:

JERRY CROSS (Convenor), CLAUDIO IORIATTI (Arthropods),  
ARNE STENSVAND (Pome fruit diseases), BENOÎT SAUPHANOR (Local organiser),  
CHRISTIAN LINDER (Soft fruits), FABIO MOLINARI (Stone fruits), CARLO MALAVOLTA (IFP guidelines), JESUS AVILLA (Pome fruit arthropods)

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# 10th Meeting of the Working Group “Biological control of fungal and bacterial plant pathogens (Phytopathogens)” *Molecular Tools for Understanding and Improving Biocontrol* September 9-12, 2008; Interlaken (Switzerland)

## Meeting Organization

Organizing committee: BRION DUFFY, MONIKA MAURHOFER, CHRISTOPH KEEL, CESARE GESSLER, YIGAL ELAD, SEBASTIAN KIEWNICK

Local contact: BRION DUFFY ([duffy@acw.admin.ch](mailto:duffy@acw.admin.ch)), Agroscope Changins-Wädenswil  
Convenor: YIGAL ELAD, Dept. of Plant Pathology, The Volcani Center, Bet Dagan 50250, Israel; email: [elady@volcani.agri.gov.il](mailto:elady@volcani.agri.gov.il), Tel. ++972 3 9683539, Fax ++972 3 9683688

## Invitation

Following the Spa meetings of the phytopathogens WG we will organize the next meeting in scenic Interlaken, Switzerland in September 2008. The meeting will be organised by colleagues from Agroscope Changins-Wädenswil, ETH-Zurich, and Université Lausanne, Switzerland according to the tradition established in the previous meetings. We are looking forward to seeing you in Interlaken.

## Workshop Themes

This workshop is focused on molecular approaches to understanding and improving biocontrol of plant diseases. Any pathogen controlled with any type of biological antagonist on any crop plant is covered. The following themes are proposed:

- a) elucidating and enhancing biocontrol mechanisms
- b) strain isolation, fingerprinting and monitoring
- c) antagonist-pathogen-plant interactions
- d) molecular ecology
- e) ‘OMICS’ applications in biocontrol

Any other aspect of biocontrol of plant diseases will be considered.

The general aim is to bring together students, researchers and implementers dealing with all aspects of biocontrol of plant pathogens to discuss approaches that can be taken to increase biocontrol efficacy. As at previous meetings, we expect 100-150 participants from many countries to participate in the meeting. There will be oral and poster presentations with ample discussion time. Proceedings will be published in the IOBC/wprs Bulletin.

**Information:** Dr. Brion Duffy  
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CH-8820 Wädenswil, Switzerland  
E-mail: [duffy@acw.admin.ch](mailto:duffy@acw.admin.ch)

**Visit** 9.2008 (Switzerland) Plant Disease Biocontrol meeting; IOBC/WPRS events:  
<http://www.iobc-wprs.org/events/index.html>

**Download:**  
[http://www.iobc-wprs.org/events/download/20080909\\_second\\_announcement.doc](http://www.iobc-wprs.org/events/download/20080909_second_announcement.doc)

**Note:**

The second mandate of Yigal Elad is coming to term, and **elections will be held for a new Convenor**. Candidates for this position must send a short CV to the current Convenor ([elady@volcani.agri.gov.il](mailto:elady@volcani.agri.gov.il)), and to the Liaison Officer of the Working Group ([philippe.nicot@avignon.inra.fr](mailto:philippe.nicot@avignon.inra.fr)) before September 1st. Interested persons can find useful information on the job of a Convenor by downloading the Convenor's Handbook from the home page of our web site (<http://www.iobc-wprs.org>). Potential candidates are kindly reminded that they need to be a member of IOBC-wprs (Individual or as staff of an Institutional Member) at the time of the elections. Elections for the next convenor of the group will be held during the meeting at Interlaken.

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## New structure of the IOBC/wprs Working Group “Integrated Protection in Viticulture”

The working group has a new convenor (AGNÈS CALONNEC) since December 2007 and is now structured in three sub-groups:

- 1) Insects. Convenors: DENIS THIÉRY, MICHAEL MAIXNER
- 2) Fungal, bacterial and physiological diseases. Convenors: CESARE GESSLER, HANNS-HEINZ KASSEMAYER
- 3) Integrated pest management. Convenors: TIRTZA ZAHAVI, CARLO DUSO

The next meeting "Integrated Protection in viticulture" will take place from November 1 – 4, 2009 in Germany near Freiburg.

### – Suggested readings

Areawide Pest Management Theory and Implementation Edited by O Koul, Insect Biopesticide Research Centre, India; G Cuperus, Oklahoma State University, USA; N Elliott, USDA, USA, see the web site for more details:

[http://www.cabi.org/bk\\_BookDisplay.asp?PID=2122](http://www.cabi.org/bk_BookDisplay.asp?PID=2122)

Ravageurs de la vigne (2eme edition) Edited by S Kreiter, published by Feret  
[http://www.editions-feret.fr/catalogMS2/docpdf/Feret\\_ravageurs2.pdf](http://www.editions-feret.fr/catalogMS2/docpdf/Feret_ravageurs2.pdf)

– **A new institute** dedicated to vine and wine research in Bordeaux: <http://www.isvv.fr>

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

## Working Group “Integrated Control in Citrus Fruit Crops” Report of the meeting held in Catania, Italy, 5-7 November 2007

The meeting was held in Catania, Italy, from November 5 to November 7, 2007, at the Università degli Studi di Catania. The first and third days were dedicated to presentations and posters, and in the second day an excursion was organised to visit citrus farms and a packinghouse.

In all, 139 participants from 19 countries assisted to the meeting, presenting 103 communications (37 as oral and 66 as poster presentations). This represents a participation increase compared to the two previous meetings of the Citrus Working Group, Lisbon 2005 (100 participants) and Valencia 2002 (60 participants). The number of participants per country was as follows: Italy (56), Spain (38), Morocco (5), Israel (4), Turkey (4), Portugal (3), Algeria (3), Irak (2), Iran (2), Montenegro(2), Tunisia (2), Belgium (1), Brazil (1), France (1), Ghana (1), Greece (1), Switzerland (1), United Kingdom (1) and United States (1).

The two most represented pests were the Citrus Red Scale, *Aonidiella aurantii*, with 20 communications, and the Medfly (*Ceratitis capitata*) with 17. Citrus leafminer *Phyllocnistis citrella* and the red spider mite *Tetranychus urticae*, with 7 presentations each, followed. Presentations on Citrus diseases (10) showed a substantial increase compared with previous meetings. Three speakers were invited to present the current state of the art on “Citrus IPM in Florida: chaos after canker and greening diseases invade” (M.A. Hoy, USA), on “the current situation of citrus pests and their control methods in Turkey” (N. Uygun, Turkey ) and “Current situation of citrus pests and the control methods in use in Morocco” (A. Mazih, Morocco). Among other topics, there was ample discussion on emerging problems of recently introduced new pests, as *Pezothrips kellyanus* and *Toxoptera citricida* and possible inadvertant introductions of new diseases like the Citrus canker, transmitted by citrus leafminer, *Citrus tristeza virus*, transmitted by *Toxoptera citricida*, and especially HuangLonBin (Citrus Greening), transmitted by psyllids.

The objective for next meetings would be to maintain the participation trying to attract more researchers that are working in Citrus pests and diseases from the Mediterranean area and other countries, and to keep broadening the spectrum of activities of the group. The group has been traditionally a meeting place for entomologists, but has poor tradition in plant pathology and weed control. Main challenges for the group are to encourage cooperation within members of the WG in methodology or research projects, stimulate discussion in the meetings and at the mailing list, and to support and encourage the participation of young scientists from Southern Mediterranean countries.

In the afternoon of the first day the members of the IOBC/WPRS Citrus Group present re-elected F. Garcia-Marí as Convenor and it was agreed to organize the next meeting in 2010 in Agadir (Morocco), with AHMED MAZIH as local organizer.



F. Garcia-Marí (Convenor) and M. Besri (Liaison officer)

Mines of *Phyllocnistis citrella* in an orange fruit.



## 3rd Workshop of the EWRS Working Group: Weeds and Biodiversity Lleida (Spain) 12-13 March 2009

Dear Colleague,

We are pleased to announce the 3rd meeting of the working group 'Weeds and biodiversity', which will be held in Lleida, Spain, 12 and 13 March 2009. The meeting immediately follows the workshop of the working group 'Physical and mechanical weed control' in Zaragoza and we invite all to participate in both.

The aim of the meeting is to bring together people who are involved in research, extension or the evaluation and preparation of environmental schemes with regard to the conservation of biodiversity in and services provided by agro-ecosystems. The purpose is to exchange results, experiences, and information, establish networks, and stimulate discussions. New information on the meeting will be posted on our web site:

[http://www.ewrs.org/biodiversity/workshop\\_2009.asp](http://www.ewrs.org/biodiversity/workshop_2009.asp)

We will build on the themes identified during the successful 2nd meeting of the working group in Salem, 2007, and invite you to contribute to the following categories:

- 1) cropping systems and plant biodiversity
- 2) field margins and plant biodiversity
- 3) functional biodiversity and seed predation
- 4) quantifying biodiversity, bio-indicators
- 5) (inter)national environmental schemes and agro-environmental politics
- 6) other

### Provisional programme

Wednesday 11th March

- Arrival, sightseeing, etc.
- Afternoon and Evening: Registration
- Get together in the evening

Thursday 12th March

- Morning and afternoon: Scientific programme
- Evening: Dinner at a local restaurant

Friday 13th March

- Morning: Scientific programme
- Afternoon: Plans for the future and concluding remarks (workshop end at approx. 15:00 h)

### Scientific programme

As in Salem, we intend to combine plenary scientific sessions, e.g. 3-4 oral presentations of 20 minutes each, with 30 minutes round-table discussions.

### Abstracts and Proceedings

Full papers (3-4 pages) of all scientific contributions will appear in the Proceedings.

### Local organisers

Paula Westerman, Barbara Baraibar & Jordi Recasens ([paula.westerman@ewrs.org](mailto:paula.westerman@ewrs.org), [barbara.baraibar@ewrs.org](mailto:barbara.baraibar@ewrs.org)).

### Chairman of the working group

Bärbel Gerowitt ([baerbel.gerowitt@ewrs.org](mailto:baerbel.gerowitt@ewrs.org)), Paolo Bàrberi

## **General Assembly of IOBC-wprs September 30th to October 3rd 2009 in Morocco**

We kindly invite you to the next General Assembly of IOBC-wprs, which will convene from September 30th to October 3rd 2009 in Morocco. It will be hosted by our colleague Prof. Dr. M. BESRI. **Elections will be held for a new Council and a new Executive Committee.** The persons interested in serving IOBC-wprs as member of the Council or Executive Committee are kindly invited to contact the General Secretary ([philippe.nicot@avignon.inra.fr](mailto:philippe.nicot@avignon.inra.fr)) or other members of the Executive Committee. A description of the role of Council and the Executive Committee, and the rules and Guidelines governing the organisation of the elections can be found in the Statutes and Byelaws of IOBC-wprs (which can be downloaded from the website).

## **Evolutionary ecology of invasive organisms under climate change**

**Summer School: August 17 – August 30, 2009**

**Frederiksberg Campus, University of Copenhagen, Denmark**

### **Joint activity of IARU and EuroLeague of Life Sciences (ELLS, Theme 'Insect Ecology')**

This course explores the theoretical background and methodological approaches to study evolution of invasive organisms under the influence of climate change. Climate change is a major threat to sustainable use of natural resources, and biological invasions, including new species with direct impact on plant production systems, represent a significant component of global change. The way these organisms (together with existing pests and beneficials) respond to a changing climate is of fundamental importance to plant production, land use and conservation of biodiversity.

The course will introduce key scientific theories, methods and problems associated with understanding, predicting and managing invasive species, including evolutionary biology, global change ecology, macroecology, invasion ecology, weed and pest science, and agroecology. The course will consist of a series of lectures and seminars by international professors (primarily from IARU partners and ELLS Universities) and project work of the students. The students will work with specific cases where they apply the theoretical concepts and learn new analytical methods. The course will also include theoretical discussions and field excursions.

The target group is graduate IARU students with a broad disciplinary background in evolution, systematics, ecology, agriculture, forestry and conservation management.

**Course tuition fee:** Students cover board and lodging (DKK 2.500).

**Contact persons:** Assoc.-Prof. Johannes Kollmann and Prof. Jørgen Eilenberg, Dept Ecology, and Assoc.-Prof. Jes Sørensen, Dept Biology, University of Copenhagen.

**Website announcement:** The course will be announced in summer 2008 at the websites of Forest & Landscape as well as the Dept Ecology.

## New IOBC/wprs Publications

### New IOBC/wprs Bulletins

The Publication Commission of the IOBC/wprs has issued the following Bulletins in 2007/2008 [For Bull. **30**(9), 2007 and Bull. **31**, 2008 see *Profile 44*: 41-51 or visit the IOBC/wprs website]:

### IOBC/wprs Bulletin Vol. 30 (8), 2007

Working Group "Integrated Protection in Field Vegetable Crops". Proceedings of the meeting at Ljubljana (Slovenia), October 3-7, 2005. Edited by: Rosemary Collier. ISBN 92-9067-203-8 [vi + 159 pp.].

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## New numbering of IOBC/wprs Bulletins

Starting with 2008 the IOBC/wprs Bulletins will only have a running volume number starting with vol. **31** (Insect Pathogens and Insect Parasitic Nematodes). Issue numbers within a year will not be any longer added to the volume numbers, because there had been problems with the citation of the IOBC/wprs Bulletins by scientists as well as by many journals.

Actually the Publication Commission (HORST BATHON and LUC TIRRY) is dealing with 12 new Bulletins which will be printed and mailed within the next months.

### IOBC/wprs Bulletin Vol. 31, 2008 – Still in print –

Working Group “Insect Pathogens and Insect Parasitic Nematodes”, Proceedings of the Meeting at Alés (France), 3-7 June, 2007. Edited by: Ralf-Udo Ehlers, Jürg Enkerli, Itamar Glazer, Miguel-López-Ferber & Cezary Tkaczuk. ISBN 978-92-9067-205-0 [xxv + 348 pp.].

Contents of Vol. **31** see *Profile 44*: 41-51 or visit the IOBC/wprs website

### IOBC/wprs Bulletin, Vol. 32, 2008 – Printed –

Working Group “Integrated Control in Protected Crops, Temperate Climate”, Proceedings of the Working Group meeting at Sint Michielsgestel (The

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\*) Additional poster abstracts are published in Sting 31, April 2008.  
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## Other interesting publications brought to attention of Profile

Gliesman, S.R., S.L. Swezey & M. Rosemeyer (2008): *The Conversion to Sustainable Agriculture. Principles, Processes, and Practices.* – 352 pp., Series: *Advances in Agroecology*, CRC Press (Boca Raton), £ 46.99, ISBN: 978-0-8493-1917-4 [In print].

Grewal, P.S., R.U. Ehlers & D. I. Shapiro-Ilan (eds., 2008): *Nematodes as Biocontrol Agents.* – 528 pp., CABI (Wallingford, UK), Paperback, £ 39.95 / US\$ 80.00 / € 65.00, ISBN 978 1 84593 454 5.

This book aims to document and illustrate the major developments in the use of nematodes for biological control of insects and slugs. It has three major sections covering entomopathogenic nematodes, entomophilic nematodes, and slug-parasitic nematodes. Each of these sections discusses biology, commercial production, formulation and quality control, application technology, strategy and safety. Separate chapters are devoted to the application of nematodes in different cropping systems, and the efficacy of nematodes against specific pests. Potential of predatory nematodes to control plant-parasitic nematodes and mycophagous nematodes to control fungal pathogens is also reviewed. This book was first published as a hardback in 2005.

Koul, O., N. Elliott & G. W. Cuperus (eds., 2008): *Areawide Pest Management: Theory and Implementation.* – 480 pp., CABI (Wallingford, UK), Hardback: £ 95.00 / US\$ 190.00 / € 152.00, ISBN 978 1 84593 372 2.

Pest management has long been a problem for farmers worldwide and new techniques are continually being developed to reduce the adverse effects of pest populations. The use of areawide pest management has increased dramatically over the past decade and offers potential advantages to traditional and more localized approaches. Suppression over a broad area can reduce re-infestation of previously treated areas and the specific pest management techniques may be more effective when applied over larger areas.

Providing the first comprehensive discussion of areawide pest management, this book will explore the theoretical development and implementation of techniques from a worldwide perspective. Areas covered include history and development, biological and ecological impacts and recent case studies of pest management programmes.

MacLeod, N. (ed., 2007): *Automated Taxon Identification in Systematics. Theory, Approaches and Applications.* – 368 pp., CRC Press (Boca Raton), £ 54.99, ISBN: 978-0-8493-8205-5.

Newton, P.C.D., R.A. Carran, G.R. Edwards & P.A. Niklaus (eds., 2007): *Agroecosystems in a Changing Climate.* – 364 pp., Series: *Advances in Agroecology*, Vol. 12, CRC Press (Boca Raton), £ 74.99, ISBN: 978-0-8493-2088-0.

Pimentel, D. (ed., 2007): *Encyclopedia of Pest Management. Vol. II.* – 784 pp., CRC Press (Boca Raton), £ 235.00, ISBN: 978-1-42005-361-6.

Debboun, M., S.P. Frances & D. Strickman (eds., 2007): *Insect Repellents. Principles, Methods, and Uses.* – 495 pp., CRC Press (Boca Raton), £ 68.99, ISBN: 978-0-8493-7196-7.

Sting 31 (April 2008): Newsletter of the IOBC/wprs WG “Integrated control in Protected Crops, Temperate Climate”, Annie Enkegaard ed. – 8 pp.  
<http://web.agrsci.dk/plb/iobc/sting/sting31.pdf>

IOBC Newsletter 83 (March 2008): Newsletter of the IOBC Global.  
<http://www.unipa.it/iobc/downlaod/newsletter83.pdf>

## 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>

- 20 - 23 August, 2008: 4th International Symposium on *Rhizoctonia*, Berlin (Germany). – <http://www.rhizoctonia.org/>, earlybird registration deadline 15th April, hotel symposium rates deadline 30th April and abstract submission deadline 1st June
- 24 - 29 August, 2008: 9th International Congress of Plant Pathology (ICPP 2008 Conference), Torino (Italy). – [www.icpp2008.org](http://www.icpp2008.org)
- 25 - 29 August, 2008: 24<sup>th</sup> European Congress of Arachnology, Bern (Switzerland). – <http://www.esa2008.unibe.ch/>
- 9 - 12 September, 2008: WG “Biological Control of Fungal and Bacterial Plant Pathogens”. 10<sup>th</sup> Meeting “Tools for understanding and improving biocontrol”, Interlaken (Switzerland). – Dr. Brion Duffy, Agroscope ACW, Postfach 185, CH-8820 Wädenswil (Switzerland), e-mail: [duffy@acw.admin.ch](mailto:duffy@acw.admin.ch)
- 21 - 26 September, 2008: 8th International Conference on Controlled Atmosphere and Fumigation in Stored Products, Chengdu (China). – <http://www.caf2008.com/>
- 29 September - 1 October, 2008: WG “Integrated Control in Oilseed Crops”. Meeting at FIAP Centre Jean Monnet in Paris (France). – Dr. Birger Koopmann, [bkoopma@gwdg.de](mailto:bkoopma@gwdg.de), <http://wwwuser.gwdg.de/~iobc/index.html>.
- 5 - 9 October, 2008: Joint course and symposium on “Microbes and the law - setting the limits for practical use”, Uppsala (Sweden). – [www.mistra.org/dom](http://www.mistra.org/dom), <http://www-mikrob.slu.se/DOMSymposium/index.htm>,  
The event aimed at the community of researchers, industrials, and regulators dealing with various aspects of safety assessment and regulation of the use of beneficial, living microorganisms in environmental applications and biotechnology.
- 13 - 15 October, 2008: ENDURE International Conference 2008 “Diversifying Crop Protection”, Montpellier (France). – [endure2008@alphavisa.com](mailto:endure2008@alphavisa.com), [http://www.endure-network.eu/international\\_conference\\_2008/](http://www.endure-network.eu/international_conference_2008/)
- 20 - 21 October, 2008: Annual Biocontrol Industry Meeting, ABIM 08. Lucerne (Switzerland). – Information and Registration: [www.abim-lucerne.ch](http://www.abim-lucerne.ch)
- 27 - 30 October, 2008: WG “Integrated Plant Protection in Fruit Crops” together with its Subgroup “Soft Fruit”. 7th International Conference on Integrated Fruit Production, Avignon (France). – Dr Benoît Sauphanor [benoit.sauphanor@avignon.inra.fr](mailto:benoit.sauphanor@avignon.inra.fr), INRA-PSH, Domaine Saint Paul, Site Agroparc, F-84914 - AVIGNON Cedex 9 (France), Tel 33 (0)432722607, Fax 33 (0)432722432. <http://www.iobc-wprs.org/events/index.html>, [https://colloque.inra.fr/ifp2008\\_eng](https://colloque.inra.fr/ifp2008_eng)

## 2009

- 8 - 13 February, 2009: 3rd International Symposium on Biological Control of Arthropods, Christchurch (New Zealand). – Sara Russell, Professional Development Group, PO Box 84, Lincoln University, Canterbury, New Zealand, e-mail: [russels4@lincoln.ac.nz](mailto:russels4@lincoln.ac.nz), <http://www.isbca09.com/>
- 9 - 12 March, 2009: IOBC/wprs Working Group “Integrated Control of Plant-feeding Mites”, Centro per l'Agrobiologia e la Pedologia, Experimental Institute for Agricultural Zoology (ISZA), Firenze (Italy). – Local Organizer: Sauro Simoni, ISZA,

Firenze, Italy. [sauro.simoni@isza.it](mailto:sauro.simoni@isza.it), <http://www.isza.it/IOBCflorence2009/>, WG Convener: Eric Palevsky, Dept. of Entomology, Agricultural Research Organization (ARO), Israel, e-mail: [palevsky@volcani.agri.gov.il](mailto:palevsky@volcani.agri.gov.il)

14 - 16 May 2009: IOBC/wprs Working Group "GMOs in Integrated Plant Production" 4th EIGMO (Ecological Impact of Genetically Modified Organisms) Meeting. Rostock (Germany). – Jörg Romeis, Agroscope Reckenholz-Tänikon Research Station ART, Zurich, Switzerland; [joerg.romeis@art.admin.ch](mailto:joerg.romeis@art.admin.ch)

31 May - 3 June, 2009: IOBC/wprs Working group "Multitrophic Interactions in Soil", Uppsala (Sweden). – Christopher Welch, Tel ++46/709 322696, e-mail: [christopher.welch@maselab.se](mailto:christopher.welch@maselab.se), <http://www-mykopat.slu.se/IOBC/index.html>

1 - 4 June, 2009: IOBC/wprs Working Group "Integrated Protection of Olive Crops", Córdoba (Spain). – <http://www.protecolicordoba2009.com>

29 June - 2 July, 2009: IOBC/wprs Working Group "Integrated Protection of Stored Products", Molise, Campobasso (Italy). – Christos Athanassiou, Laboratory of Agricultural Zoology and Entomology, Agricultural University of Athens, Greece, 75 Iera Odos, 11855 Athens Greece, e-mail: [ceaz2atx@noc.aua.gr](mailto:ceaz2atx@noc.aua.gr), <http://www.iobc-wprs.org/events/index.html>

Late spring 2009: IOBC/wprs Working Group "Insect Pathogens and Insect Parasitic Nematodes", Navarro (Spain). – Local organizer: PRIMITIVO CABALLERO, Universidad Pública de Navarra, Producción Vegetal, 31006 Pamplona (Navarra) (SPAIN), Tel ++34 948-16-9129, e-mail: [pcm92@unavarra.es](mailto:pcm92@unavarra.es)

September 2009: IOBC/wprs Study Group "Benefits and risks of biological control", Switzerland. – Marc Kenis, Delémont (Switzerland), [m.kenis@cabi.org](mailto:m.kenis@cabi.org)

6 - 11 September 2009: Working Group "Integrated Control in Protected Crops, Mediterranean Climate", Chania, Crete (Greece). – Dr. Cristina Castañé, e-mail: [Cristina.Castane@irta.es](mailto:Cristina.Castane@irta.es) and/or Dr. Dionyssios Perdikis, e-mail: [dperdikis@aua.gr](mailto:dperdikis@aua.gr)

**30 September – 3 October, 2009: General Assembly of IOBC/wprs in Morocco**

7 - 9 October, 2009: IOBC/wprs Working Group "Pesticides and Beneficial Organisms", Dubrovnik (CROATIA). – Local Organizer: Dr. BOŽENA BARIĆ, Department for Agricultural Zoology, Faculty of Agriculture, Zagreb. – Dr.Ir. J.-P. Jansen (Convener), CRA-W, Departement Lutte biologique et Ressources phytogénétiques, Laboratoire d'Ecotoxicologie, 2, Chemin de Liroux, 5030 Gembloux, (Belgique), Tel + 32 (0)81 625 683, e-mail: [labecotox@cra.wallonie.be](mailto:labecotox@cra.wallonie.be)

October, 2009: 4<sup>th</sup> Meeting of the IOBC/wprs Working Group "Integrated Protection of Olive Crops", Cordoba (SPAIN). – Dr. E. Quesada-Moraga, Department of Agricultural and Forestry Sciences, ETSIAM, University of Cordoba. Campus de Rabanales. Building C4 "Celestino Mutis", Cordoba 14071 (Spain), e-mail: [cr2qumoe@uco.es](mailto:cr2qumoe@uco.es)

Additional information in the **IOBC-Global Newsletter 83** – March 2008

<http://www.unipa.it/iobc/downlaod/newsletter83.pdf>

**„Integrated Control in Protected Crops, Temperate Climate”, Working Group meeting at Sint Michielsgestel (The Netherlands), 21-25 April, 2008:  
Supplementary Posters to IOBC/wprs Bull. 32, 2008 (Abstracts published in Sting 31, 2008)**

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Sting 31: <http://web.agrsci.dk/plb/iobc/sting/sting31.pdf>

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The winter-issue of Profile (number 46) will be edited in January 2009. 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, 2008**

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](mailto:madeleine.buehler@e-maintenance.ch)). Please send your contributions for Profile by e-mail (preferably), on CD or as fax to:

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