



**IOBC / WPRS
OILB / SROP**

PROFILE

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

**International Organization for Biological and Integrated Control of
Noxious Animals and Plants – West Palearctic Regional Section**
ISSUE Nr. 34 **January 2003**

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The Presidents Page

At this early stage of 2003 I would like first to express wishes for a good year professionally as well as privately to all members and collaborative partners.

For WPRS 2002 ended as a productive year in terms of Working Group meetings and issued Bulletins. As a particularly positive element several new or restructured activities have come up or are in process, e.g. the restarting *Citrus Group*. This element of dynamism is essential and the efforts of relatively few driving people cannot be commended enough.

This, however, also brings up a recommendation to our members of being kindly active in assisting their own Convenors. The Convenors are taking care of a number of issues on behalf of members with the major aim of facilitating good scientific meetings and their further outcome in Bulletins. These elements will be a natural part of a few days session between the Council and all Convenors planned for first half of October by the Executive Council. It is the intention that such a meeting shall apart from the regular budget issues serve as a forum for possible adjustments and developments in the mid of the present 4 year period between two General Assemblies.

As a core element e.g. the general function of the Working Groups will be on the agenda and it will also be natural to discuss again the interaction with the countries from the eastern side of Europe.

To ensure an ongoing good function of WPRS in promoting Biological and Integrated Control I appeal primarily to Council members and Convenors but also to all members about thinking of questions and issues which you think should be discussed at such a meeting. Please forward your suggestions to the Secretary General, myself or another member of the Executive.

I thank in advance for all good suggestions.

Peter Esbjerg

IOBC/ WPRS
Commissions, Working groups, Study groups
 January, 2003

Commissions	Convenor	Liaison- Officer
Publications	BATHON H. TIRRY L.	–
Determination and identification of entomophagous insects	BAUR H.	–
Guidelines for integrated production	AVILLA J.	ALBAJES R.

Working groups

Integrated protection of fruit crops	CROSS J.	MALAVOLTA C.
Pesticides and beneficial organisms	VOGT H.	BIGLER F.
Breeding for plant resistance to pests and diseases	BIRCH A.	TIRRY L.
Pheromones and other semio-chemicals in integrated production	WITZGALL P.	BATHON H.
Multitrophic interactions in soil	SIKORA R.	KERRY B.
Integrated protection in viticulture	LOZZIA C.	GESSLER C.
Integrated protection of oilseed crops	PAUL V.H.	ALABOUVETTE C.
Integrated protection of field vegetables	VIDAL S.	ESBJERG P.
Integrated control in protected crops, temperate climate	ENKEGAARD A.	BLUEMEL S.
Integrated control in protected crops, mediterranean climate	CASTAÑÉ C.	BLUEMEL S.
Insect pathogens and entomoparasitic nematods	PAPIEROK B.	HUBER J.
Integrated control of fungal and bacterial plant pathogens	ELAD Y.	ALABOUVETTE C.
Integrated protection in oak forests	VILLEMANT.C.	VIEIRA M.M.
Integrated protection of stored products	NAVARRO S.	BATHON H.

Study groups	Convenor	Liaison-Officer
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		BIGLER F.
Landscape management for functional biodiversity	(POEHLING H.M. / ROSSING W.)	VAN LENTEREN J.

IOBC/wprs Officers and their Addresses

There are some marked changes in the addresses of some IOBC/wprs-Officers compared with the list in Profile 32, 2002!

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

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IOBC/wprs WORKING AND STUDY GROUPS

Study Group

“Landscape management for functional biodiversity”

Meeting 11-14 May, 2003, University of Bologna, Italy

ORGANIZERS

Giovanni Burgio (Bologna)
Hans-Michael Poehling (Hannover)
Walter Rossing (Wageningen)

SCIENTIFIC ADVISORY board

Barbara Ekbom (Uppsala)
Andreas Kruess (Goettingen)
Joop van Lenteren (Wageningen)
Maurizio Paoletti (Padova)
Andries Visser (Lelystad)

Aims of the Meeting and Scientific Programme

The new IOBC/wprs Study Group Landscape management for functional biodiversity aims to present a platform for stimulation of projects and exchange of research results dealing with improving cropping and farming system performance. The improvement of pest, disease and weed management in which a landscape ecology approach was adopted will receive particular attention. Prevention of crop attack by pests, diseases and weeds may be considered at different hierarchical scales. While the field scale has traditionally received much attention in strategic and applied research, the higher hierarchical scales of farm and landscape or region have only recently gained attention. Interdisciplinary research on issues such as functional biodiversity and landscape connectivity demonstrates that new options for pest control arise when systems management is approached from farm and regional scales. In addition to providing exciting new tools, this change in perspective is highly relevant in relation to the public debate on organic and integrated farming, the role of agriculture in landscape and nature management, and the increasing pressure on the rural areas to provide urban populations with 'green services'. Research at the farm and landscape scale requires inputs from a range of disciplines, such as meteorology, molecular biology, populations genetics, agronomy and landscape ecology. IOBC represents an excellent platform for stimulating and facilitating such inter-disciplinary discussions in this relatively young scientific field.

The scientific program will feature 2 days of presentations and discussions and 1 day of visits to local projects (details will be provided later). To maximise exchange of ideas, each presentation of a paper (maximum of 15 minutes) will be followed by a co-lecture of 5 minutes by a member of the Scientific Advisory Board.

All full papers will be published in an issue of the IOBC-Bulletin. Papers should be submitted camera-ready to Walter Rossing (Walter.Rossing@wur.nl) by e-mail. Deadline for submission is 1 March 2003 to achieve printing *before* (!) the meeting. Contributions should be limited to 6 pages maximum, including tables and graphs. Full instructions for authors can be found under:

<http://www.iobc-wprs.org/pub/index.html>

For further details of registration see:

<http://www.iobc-wprs.org/events/index.html>

GENERAL INFORMATION

Conference Site

The Symposium will be held at **Aula Prodi** within the ancient cloister of San Giovanni in Monte, Piazza San Giovanni in Monte, 2. The site is located in the city centre and it is well served by public transport (from Railway station bus n. 11 and from Piazza Maggiore buses n. 11 and 13).

Registration Fee (deadline March 1, 2003)

The registration fee is **€150** (20% VAT included) and it includes:

- Admission to scientific sessions,
- Abstract book,
- Welcome Cocktail Party;
- Lunches,
- Coffee-breaks;
- Excursion to experimental farms located in Emilia-Romagna region

Payment

Payment can be made to the following account:

Planning Congressi Srl

no. 291/14 - ABI 05387.6 - CAB 02598.1 - swift BPMOIT22

Banca Popolare dell'Emilia Romagna - Ag. 6

Via Massarenti 228, 40138 Bologna (Italy)

Participants are reminded that bank charges are made and are deducted by the bank before passing to the Congress Secretariat; it is, therefore, essential that such transfer of money should include any surcharge. Deductions suffered by the Congress Secretariat should be paid at the Registration Desk on arrival.

Please attach a copy of the payment advice to the Application Form.

Credit card payment of fees must be made in full and the following credit cards are acceptable: *Visa, Eurocard, Mastercard*. The Congress Secretariat regrets that *American Express* and *Diners* cannot be accepted. The particular card to be debited must be specified on the Application Form, together with the **Number, Expiry Date**, and the **Registered Name and Address** of the Card Holder.

All data supplied by participants will be processed and held on computer by the Congress Secretariat only for the purpose of administering this conference.

Applications may be cancelled by April 30, 2003, in which case a partial refund will be made. It **will not be possible** to offer any refunds if details of cancellation are received after that date.

Accommodation

Planning Congressi Srl

Via S. Stefano, 97 - 40125 Bologna - Italy, Tel. +39-051-300100, Fax +39-051-309477, E-mail: i.bortolotti@planning.it

Those participants who wish to book hotel accommodation in Bologna can do so through *Planning Congressi* by asking for the accommodation form (i.bortolotti@planning.it). The cost for this service will be € 13.

How to get to Bologna

Bologna can be easily reached by all means of transport:

By air: The "Guglielmo Marconi" international airport has direct links with major centres in Europe and with the rest of the world via the intercontinental airports of Milan Malpensa and Rome Leonardo da Vinci. Bologna airport is located about 9 km from the city centre. There is a shuttle bus (**AEROBUS**) from the airport to the city centre that leaves every 15 minutes. The ticket (€ 4,5) may be purchased on the bus

By rail: The Eurostar train service links Bologna with more than 40 European cities, including Milan and Rome. Bologna railway station is located in the city centre.

By road: Bologna is a major intersection for Italy's extensive motorway network. From the ring road take exit signposted "city centre". In the city centre there are only a few parking places and all of them have a hourly fee.

Registration form

IOBC/wprs Study Group Meeting

“Landscape management for functional biodiversity”

11-14 May, 2003, University of Bologna, Italy

Name:

Address:
.....
.....

e-mail:

Tel: Fax:

I will give an oral presentation or poster

Topic:
.....
.....
.....
.....

Please send registration form preferably by E-mail to:

Dr. Giovanni Burgio
DiSTA, University of Bologna
via F. Re, 6 – BOLOGNA
E-mail: gburgio@entom.agrsci.unibo.it
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**Working Group “Biological Control of Fungal and Bacterial Plant Pathogens
Report on the 7th WG Meeting: Influence of A-Biotic and Biotic Factors on Biocontrol Agents
Pine Bay, Kusadasi, Turkey, 22-25 May 2002**

There is increasing interest in biocontrol of plant pathogens. The number of people who study aspects of the interactions between plant pathogens and bacteria, fungi, phages or viruses and the number of publications increased steadily with time. In some cases the search for biocontrol agents lead to implementation under field conditions and commercial development of biological preparations for control. However, The number of commercial preparations is yet small and much more is expected from us before significant phytopathological problems could be solved by biological means.

One of the reasons that preclude implementation of biocontrol agents on a large scale in commercial production is the large variability in control efficacy. In some cases the biocontrol agents are as effective as chemical products, but in other they are less effective and sometimes they are not effective at all. The assumption underlying this meeting was that one of the obstacles on the way of reliable biocontrol under field conditions is the interference by biotic or a-biotic factors. These factors affect the activity, survival and interaction of the biocontrol agents with the plant pathogens or with plants. In the meeting we presented our knowledge in this regard and discussed the possibilities to overcome deleterious effects on the implementation of biocontrol of plant diseases. We emphasized aspects of micro-climate, soil/ substrate/ crop/ fertilization, chemicals, saprophytes / non-target microorganisms effect on and interaction with population dynamics/ survival of antagonists, on their biocontrol activity and the economical feasibility of the BCA. There were 130 participants in the meeting and it was organized by YIGAL ELAD, NAFIZ DELEN, JÜRGEN KÖHL and DANI SHTIENBERG that were helped by several other colleagues.

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9th European Meeting IOBC/wprs Working Group
"Insect Pathogens and Entomoparasitic Nematodes"
together with
Cost Actions 842 and 850
"Entomophthorales" and "Biocontrol Symbiosis"

May 24 - 28, 2003, Schloss Salzau, Germany

The Working Group *Insect Pathogens and Entomopathogenic Nematodes* is a forum for scientists working with insect pathogens (viruses, bacteria, fungi, protozoa, nematodes). The Working Group has four subgroups:

- Fungi Convenor: G. Zimmermann
- Nematodes Convenor: R.U. Ehlers
- Melolontha Convenor: S. Keller
- Slugs and Snails Convenor: W. Symondson

The 9th meeting of the WG is open for all contributions dealing with invertebrate pathogens used in biological plant protection. This meeting will particularly deal with the following questions:

1. Growing Biocontrol Markets

Challenge, Research and Development

The current and future potential of microbial control will be summarized and future research and development objectives, which can support the use of microbial antagonists, will be discussed in working groups.

2. Safety and Regulatory Policy

Related to the commercialisation of biocontrol agents is the problem of registration. A controversy podium discussion will present the benefits and risks of using microbial agents and nematodes in biocontrol. What is necessary to estimate risks and how can we assess potential hazards. Which approach should be taken in regulatory policy.

3. Melolontha

One session will concentrate on pathogens used to control *Melolontha* spp. and other grubs.

4. Slug and Snail control

A session will be prepared dealing with biocontrol of slugs and snails.

5. COST Action 842

COST Action 842 "Biological control of pest insects and mites with special reference to Entomophthorales" will have its Management Committee Meeting and workshops before the IOBC meeting

6. COST Action 850

COST Action 850 "Biocontrol Symbiosis" will have its Management Committee Meeting before the IOBC meeting starts and a workshop dealing with the latest OECD proposal to produce guidelines for registration of biocontrol invertebrates.

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For Information and Registration visit: <http://www.IOBC.de>

Working Group „Pesticides and Beneficial Organisms“

Annual Meeting 2002

The meeting was held in Avignon, France, 8 - 11 October 2002, at the Université Ste. Marthe. It was attended by 90 participants from 16 countries (Austria, Belgium, Czech Republic, France, Germany, Hungary, Ireland, Italy, Portugal, Spain, Switzerland, The Netherlands, Tunisia, Turkey, United Kingdom, USA (Hawaii)). After some years it was the first time again, that colleagues from the Czech Republic, Hungary and Turkey were present.

The first day of the meeting was reserved for subgroup activities, focusing on improvement, harmonization and validation of test methods. Two groups, the „*Poecilus* larvae test“ group“, convened by Udo HEIMBACH, and the „*Aphidius rhopalosiphii*“ group (extended laboratory test and semi-field test system), chaired by MIKE MEAD-BRIGGS exchanged and discussed their results. They reported the actual state of the method development to the WG and stated, that the *Poecilus* larvae

test as well as the *Aphidius rhopalosiphi* extended lab test are ready for finalising the guidelines.

At the WG meeting 20 oral contributions and 7 Posters were presented, treating results about side-effects of pesticides and test methodology, including new developments for soil organisms. Most of the contributions will be published in an IOBC/wprs Bulletin.

Many thanks are due to the local organizers, MARGRIT ENGELHARDT and her team. All participants enjoyed the scientific part of the meeting with very fruitful and intense discussions and exchange of knowledge as well as the social events. These included a visit to the impressive Pont du Gard and to a winery in Beaume de Venise with a lot of information about the integrated production of grapes and wine making, and where we enjoyed a nice dinner.

Election of the Convenor

During the meeting the election of the convenor for the period 2003 to 2007 took place, as the 5 years convenorship (1998-2002) of HEIDRUN VOGT is ending in 2002. Prior to the meeting the group was informed and invited to make proposals for the new convenor (to be sent to the Co-Convenor of the WG, Dr. UDO HEIMBACH, BBA Braunschweig). HEIDRUN VOGT pronounced her availability for a re-election as well. The only candidate proposed by several members of the WG prior to the meeting was HEIDRUN VOGT. The election took place during the WG meeting in Avignon and she was reelected by all IOBC members present at the meeting. The written report about the election was sent to the IOBC Council.

Discussion during the 2003 WG meeting on topics for future activities of the WG and on the frequency of the WG meetings

In the last years the number of participants has increased, whilst this was not the case for the number of contributions (Table 1). Thus the number of participants without contributions has increased considerably. The question arised, how we could succeed to come back more to the character of a working group with fruitful cooperations and more active involvement of the participants and if annual meetings are still asked for.

It has to be taken into consideration, that until 1999 a lot of activities and energy was dedicated to the validation and ringtesting of side effect testing methods and during the WG meetings up to 9 ring test groups came together to discuss their results, to decide on further activities and to work on the publication of the test method, including relevant data sets. With the publicaton of the guideline booklet CANDOLFI et al. (2000), the

Table 1: Meetings of the WG since 1996. In addition to the communications, all meetings included special sub-group activities, mainly covering the topics a) validation and standardization of test methods and b) Joint Pesticide Testing Programmes (JPTPs).

Year	Locality	Host	Country	Number of participants	Communications
1996	Cardiff	Welsh Pest Management Forum, University of Cardiff	United Kingdom	45	26
1997	Tunis	Agronomic Research Society	Tunisia	35	25
1998	Braunschweig	Biologische Bundesanstalt	Germany	62	30
1999	Versailles	INRA	France	93	30
2000	Castelló	University Jaume I	Spain	100	30
2001	San Michele	Istituto Agrario	Italy	74	21 and 6 Poster
2002	Avignon	Université Ste Marthe	France	90	20 and 7 Poster

work on 11 methods (including 8 laboratory test methods) was finished. Since then two ring test groups continued their work: *Aphidius* extended laboratory test and *Poecilus* larvae test. In both cases the method development and validation is estimated as being finalized, the publications of the guidelines will be prepared and will be reviewed by the new steering group of the JI, which will be nominated in near future (an ad hoc meeting of representatives of the involved groups in the Joint initiative - BART/IOBC/EPPO – took place at Avignon; the minutes of the meeting will be circulated). It was also clear that JI activities will be continued as further test methods for registration purposes will need to be developed and validated. Thus also in future, IOBC WG members will be further involved in these activities. However, besides these activities closely related to the registration procedure, the group should focus on IPM relevant topics.

The following topics were proposed, where the group should increase activities and where more cooperation will be needed:

a) Side-effect testing with soil living organisms

Effect sizes can be influenced by the soil type. Even standard soils can vary in their composition resulting in different effect sizes as reported by UDO HEIMBACH for the ringtest group „*Poecilus* larvae test“. The WG should address this question. The following members working with soil living organisms expressed their interest to take up this question:

FRANK BAKKER, ANNI FORSTER, UDO HEIMBACH, ARNE PETERS.

Contact: Please contact UDO HEIMBACH if you want to join these activities:

Dr. Udo Heimbach, BBA-Institute for Plant Protection of Field Crops and Grassland, Messeweg 11/12, D-38104 Braunschweig, Germany, Tel: +49 (0)531-299-4540, e-mail: u.heimbach@bba.de

b) Species specific trigger values or „What does a certain effect size mean for a certain species in the real world?“

It is difficult to judge, which is the impact of a certain effect size (mortality, reduction in reproduction, in predation, in parasitism) on population level in the real world, i.e. under field conditions. Which effects can be tolerated, where are critical limits? Many factors, the biology and ecology of a species, the surroundings of a field, the duration of the effect, etc. are factors of influence. ROLF FORSTER suggested to start with a literature review and a case study, eg. for predatory mites . He would like start to work on this, but due to changes in his job cannot promise this firmly. However, he offers to be the contact person for all those interested in this subject.

Contact:

Dr. Rolf Forster, Bundesamt für Verbraucherschutz, und Lebensmittelsicherheit (BVL), Abteilung 2 Pflanzenschutzmittel, Messeweg 11/12, D-38104 Braunschweig, Germany, e-mail: r.forster@bba.de

c) Methodology in field tests in different crops

It was stated, that more guidance is needed for sampling techniques in field tests in different crops and in different climatic regions. In field studies most often a combination of methods is used (visual controls, beating samples, inventory sampling, yellow water traps, window traps etc.), however in many cases details about the use are not defined (e.g. number of traps, size of traps, exposure time etc.). A proposal was, that a literature review could help to compile existing knowledge as well as to identify the gaps for certain crops or regions, where further research would be needed. It was also proposed that it could be very helpful to hold a meeting within the IOBC WG annual meeting, where field experts should exchange and compile the knowledge about actually used methods and experience in sampling techniques. Several participants expressed their interest in this subject.

Please contact JUTTA MÜTHER, if you have proposals about this subject and want to join activities:

Contact:

Dr. Jutta Mütter, GAB Biotechnologie GmbH, Eutinger Str. 24, 75223 Niefern-Öschelbronn, Germany, e-mail: Jutta.Muether@GAB-Biotech.de

d) *Pesticide side effects in protected crops in different climatic regions*

MARC VAN DE VEIRE is interested in a cooperation with colleagues in Southern countries in order to study the duration of effects of spray applications of some new pesticides (fermentation products, e.g. spinosad, abamectin; plant extracts (e.g. Neem); neonicotinoids), on beneficials (e.g. *Encarsia formosa*) or on pest organisms (e.g. aphid spp.) in protected crops in dependence of the climate. As degradation of pesticides is often influenced by sun light (UV radiation), the impact and persistence of the pesticides can differ in Southern and Northern countries and thus can influence biological control in glasshouses considerably (e.g. different waiting periods for releasing natural enemies). Under Belgian conditions even, Marc found quite pronounced differences in effect sizes when insecticides were applied in spring or in summer. Other colleagues interested in this question were ELISA VINUELA and UMBERTO BERNARDO.

All colleagues interested in this subject, please contact Marc Van de Veire.

Contact:

Dr Marc Van de Veire, University of Gent, Laboratory of Agrozoology, Coupure Links 653, B-9000 Ghent, Belgium, e-mail: marc.vandevaire@rug.ac.be.

e) *Pesticides and entomopathogenic nematodes and microbials / mycorrhiza and pesticides*

Since years these subjects have not been treated within the WG. It was appreciated a lot, that at the meeting in Avignon this year two contributions brought back attention to these topics (a) ARNE PETERS: Pesticides and beneficial nematodes. Current status and future work; b) BACHAR BLAL, JEAN PARAT & PHILIPPE VIAUX: Side effects of three fungicides (Epoxyconazole, Azostrobilurine, Carbendazime) on Arbuscular Mycorrhiza (AM) development in sorghum roots under semi field conditions during successive years.

With regard to enhancement of biological control using entomopathogenic nematodes and micobials as well as to protect and optimize arbuscular mycorrhizal fungi in plant production systems,

knowledge about the impact of pesticides on these organisms is essential.

ARNE PETERS is willing to function as contact person and to coordinate activities. Please contact him, if you are working in this field:

Contact:

Dr. Arne Peters, E-Nema GmbH, Klausdorfer Str. 28-36, D-24223 Raisdorf, a.peters@e-nema.de

Conclusion:

The discussion about the objectives in general and the relevant topics to be treated by the WG within the next years clearly came to the result, that annual meetings are needed. These meetings ideally should be a combination of special sub-group activities, treating a specified subject and limited to a smaller number of active and invited participants, and a platform with oral and poster presentations open for the public.

Concerning the participation at the IOBC/wprs meetings, participants taking part regularly should be covered by an IOBC membership (for details, please have a look into the IOBC/wprs web page:

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

Sub-group activities: Joint Pesticide Testing Programme (JPTP)

The 9th programme was continued and results have been sent in. There is a lack of results from higher testing tiers (especially semi-field), due to the fact, that most testing members are not able any more to carry out these more time-consuming and more expensive tests. It was decided to close the programme and to publish it as soon as possible.

Concerning the 8th, which is closed already since long, there are still some problems for finalizing the publication. However, the Convenor has contacted former testing members for clarification of some questions and it should be possible to finalize the manuscript for publication soon.

Pesticides for the 10th JPTP have been chosen. There are problems concerning the organisation of the programme (time and manpower). It is not yet clear, how quickly the WG will be able to organise it.

Publications

The contributions of the WG Meetings are always published after the meeting (Abstracts are available during the meeting). – The contributions of the meeting in 2001 (San Michele, Italy) are available:

IOBC/wprs Bulletin **25** (11), 2002 (15 publications, 121 pages, editors: HEIDRUN VOGT & UDO HEIMBACH.

Next meeting: 8 - 10 October 2003

The WG received the invitation by J. RAUL RODRIGUES to held the next meeting in Ponte de Lima in Portugal (Dep. Ciências da Planta e do Ambianta, Escola Superior Agrária de Ponte de Lima, Convento do Refóios, 4990-706 Ponte de Lima). The group appreciated the kind invitation and accepted it with pleasure.

Dr. Heidrun Vogt
(Convenor IOBC WG „Pesticides and Beneficial Organisms“)
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Working Group "Breeding for Resistance to Insects and Mites" – Report

The 9th meeting of the *Breeding for Resistance to Insects and Mites* Working WG was held in Rostanga, Sweden on 8-12 December 2001. This meeting was attended by 8 plant breeders (both private and public sector) 10 entomologists, 2 chemical ecologists, 2 plant biotechnologists and 1 mathematical modeller. Although attendance was slightly lower than previous WG workshops (time of year, location were probably contributing factors) it was very successful in stimulating discussion between these scientific disciplines. The response from delegates for contributing to the published proceedings has been slow and fewer in number than anticipated. The convenor has decided to avoid any further delay and publish those articles and abstracts currently submitted. These are now being edited and reformatted by the convenor.

At the 2001 WG meeting in Sweden we discussed 2 main options for increasing the size and scope of the WG:

The first option is to invite plant pathologists and stored products entomologists to the next WG workshop (planned for 2004 in Poland if this does not clash with other major meetings). Our WG members had mixed views on this option; some preferred a smaller sized WG focussed only on insects and mites whilst others preferred a broader group. Since many of the experimental and breeding approaches are similar for

insects, mites and fungal pathogens we concluded that we should encourage the wider participation of stored product entomologists, IPM specialists, chemical ecologists and pathologists in attending our next workshop in 2004.

The second option involves merging our WG with the newer and larger WG on Induced Resistance. Most of our members were opposed to the merger because they felt they would lose some focus and identity. As convener of the Breeding for Resistance to Insects and Mites WG I proposed to attend at least one of the Induced Resistance WG meetings so we could discuss future options for joint meetings and more interactions between the 2 WGs.

A more recent development in 2002 has been our involvement in the Global IOBC's WG on GM Crop Biosafety (I serve both as a link between WPRS and Global and as a member of the steering committee of the GMO project). This has already resulted in closer links between the two WGs (the common link is resistance to pests – either conventionally bred or GM) and for new opportunities to collaborate between WPRS and Global organisations. The first workshop in Kenya on ecological impacts of pest-resistant *Bt* maize (November 2002, attended by Nick Birch) was very successful and already a second workshop is being planned in Brazil for 2003.

The WPRS Breeding for Resistance to Insects and Mites WG encourages increased interaction with other WPRS and Global WG's (e.g. pathology, stored products, induced resistance, GMOs, pheromones and semiochemicals, IPM) and we welcome suggestions and invitations for joint meetings and collaborations.

Please email Nick Birch (N.Birch@scri.sari.ac.uk) with ideas for future interactions and collaborations.

Working Group “Integrated Control in Protected Crops, Mediterranean Climate” – Next meeting

Next meeting of the working group will be held in Agadir (Morocco) from 30th November to 4th December, 2003. This is the main area of greenhouse crop production in Morocco with vegetables, ornamentals, and medicinal plant production. Young both entomology and plant pathology scientists are particularly encouraged to attend the meeting. It is expected to publish the contributions as an IOBC/WPRS Bulletin issue before meeting, and written contributions must be sent to the WG

convenor before 10 July (please check the new 'Instructions to authors IOBC/WPRS Bulletin'). Members of the W.G. should have received the first announcement. For registration forms, further details on the meeting, and instructions to prepare manuscripts can be also obtained from the WG convenor or the local organiser (see below their addresses).

Dr. Cristina Castañé, Convenor
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Fax: +34.937533954 e-mail: Cristina.Castane@irta.es

Local organizer:

Dr. Abdelhaq Hanafi
Integrated Production and Protection Unit; Complexe Horticole
d'Agadir; Institut Agronomique et Veterinaire Hassan II; BP.
18/S; AGADIR, 80.000. MOROCCO. Tel/Fax: 212 48 248152;
E-fax: 001 603 4572654, e-mail: Hanfi@marocnet.net.ma

IOBC/wprs Study Group “Ecological Impact of Genetically Modified Organisms”

The kick-off meeting of this study group has been held at the Swiss Federal Research Station for Agroecology and Agriculture (FAL) in Zurich, Switzerland from 12-14 January 2003.

17 participants from 8 wprs-countries agreed that there is a need for a IOBC/wprs WG to cover the ecological impact of genetically modified organisms (GMOs). Therefore, the convenor of the Study Group, FRANZ BIGLER, will request the IOBC/wprs council to formally establish the WG. The objectives, focus points and activities of this new WG that have been developed at the kick-off meeting are outlined below.

Objectives

1. Exchange and dissemination of scientific knowledge on the ecological impact of genetically modified organisms
2. Evaluate the compatibility and integration of genetically modified organisms with biological control and IPM
3. Resistance management of the target organisms
4. Development and harmonisation of methods for testing the ecological impact of genetically modified organisms

Focus points

- i) Involve scientific community of whole wprs region
- ii) Ecological impact of GMOs
 - a) Resistance management including monitoring of resistance
 - b) Ecological services (biological control agents; pollinators; decomposers)
 - c) Biodiversity (in crop; off crop; hybridisation/fitness of hybrids)
- iii) Monitoring and bioindicators
- iv) Risk-benefit assessment – comparison of GMOs with other agricultural practices
- v) Fate of transgenes and transgene products

Relationship to the IOBC Global WG ‘Transgenic Organisms in Integrated Pest Management and Biological Control’

The participants agreed that there is a need for a wprs WG in addition to the existing Global WG as different factors are specific for the wprs region, i.e. agricultural systems, crops and agroecological situations; policies and EU legislation; greater concerns regarding ecological impact of GMOs.

There will be no formal relationship with the Global WG, but the convener of Global WG will be invited to participate in the activities by the wprs WG. In addition, exchange will be given through members that are actively involved in both the Global and the wprs WG.

Activities

A first full meeting of the WG will be held later this year and an IOBC / wprs Bulletin will be published.

List of participants at the kick-off meeting

- RAMON ALBAJES (Universitat de Lleida, Spain)
- SALVATORE ARPAIA (National Agency for New Technology, Energy and Environment, Rotondella, Italy)
- CARLOS AVILLA (Universidad de Sevilla, Spain)
- DIRK BABENDREIER (Swiss Federal Research Station for Agroecology and Agriculture, Zurich, Switzerland)
- FRANZ BIGLER (Swiss Federal Research Station for Agroecology and Agriculture, Switzerland) – convener of the study group
- DENIS BOURGUET (INRA, France)
- ANNA DUTTON (Swiss Federal Research Station for Agroecology and Agriculture, Switzerland)
- BERND FREIER (Federal Biological Research Centre for Agriculture and Forestry, Kleinmachnow, Germany)
- ANGHARAD GATEHOUSE (University of Newcastle, UK)

- ACHIM GATHMANN (Technical University Aachen, Germany)
- ANDREAS LANG (Bayerische Landesanstalt für Landwirtschaft, Freising, Germany)
- GABOR LÖVEI (Danish Institute of Agricultural Science, Flakkebjerg Research Centre, Denmark)
- FÉLIX ORTEGO (Centro de Investigaciones Biológicas, Madrid, Spain)
- JÖRG ROMEIS (Swiss Federal Research Station for Agroecology and Agriculture, Switzerland)
- FRANTIŠEK SEHNAL (Academy of Sciences, České Budejovice, Czech Republic)
- EVELYN UNDERWOOD (Swiss Federal Institute of Technology, Geobotanical Institute, Zurich, Switzerland)
- HEIDRUN VOGT (Federal Biological Research Centre for Agriculture and Forestry, Dossenheim, Germany)

Every member of IOBC/wprs is invited to participate in this new WG. If you want to be included in the mailing list, please send your name, address, Email and a short statement of your area(s) of interest to

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Working Group "Integrated Plant Protection in Fruit Crops" – Report for 2002

The Working Group *Integrated Plant Protection in Fruit Crops* (formerly entitled the 'Orchards' Working Group) currently comprises the following sub-groups:

Scientific secretary

- | | |
|-----------------------|--|
| Pome Fruit Arthropods | Mike Solomon, UK |
| Pome Fruit Diseases | Cesare Gessler, Switzerland,
Peter Triloff, Germany |
| Soft Fruits | Dariusz Gajek, Poland |
| Stone Fruits | Piero Cravedi, Italy |
| IFP guidelines | Jerry Cross, UK |

The former *Stone Fruits Working Group* has merged as a sub-group into the Working Group *Integrated Plant Protection in Fruit Crops*.

Meetings in 2002

Pome fruit arthropods: A successful biennial workshop on 'Arthropod Pest Problems in Pome Fruit Production' was held in Vienna on 10-14 March 2002. FRITZ POLESNY, BFL, Vienna and his staff were the local organisers and MIKE SOLOMON, HRI-East Malling, the scientific secretary, helped organise the scientific programme. The meeting was attended by approximately 50 delegates, mainly from Europe but with important representation from Canada, Israel and Canada. 35 oral papers were presented plus a dozen posters. Codling moth and its control continued to be an important subject. Papers reported resistance management, semiochemical studies, including the pear ester kairomone bisexual attractant, and area wide control programmes using MD, SIT and CpGV. Arthropod biodiversity and the impact of pesticides continued as an important theme. Post harvest control of *Dysaphis plantaginea* and the impact parasitoids of overwintering pear psylla were interesting new topics. A technical visit was made to the experimental garden and the laboratory facilities of the local fruit and wine growing school. *Cornus maas* was in full flower. All were very grateful to FRITZ POLESNY for his long and excellent service as the former convener of the Working Group and for his excellent organisation of the workshop. A collection was made and he was presented with a framed coloured print of feeding lepidopteran larvae and money for a treat of his choice as a token of gratitude.

Pome Fruit Diseases sub-group: The diseases sub-group had its 6th International workshop in Lindau, Germany from 31 August to 5 September 2002. The workshop was organised by PETER TRILOFF, Marktgemeinschaft Bodenseeobst at Friedrichshafen, Germany and CESARE GESSLER, Swiss Federal Institute of Technology, ETH-Zurich. It was attended by approximately 40 delegates mostly from Europe, but also from Canada, USA and S. Africa. Some 27 oral papers and posters were presented. The workshop was mainly devoted to scab which continues to be the dominant interest of the sub-group. Topics included sanitation, resistance, modelling and alternative strategies for control. It is obvious that scab remains a pressing problem, especially with the need to reduce fungicide inputs. Other subjects included apple canker, powdery mildew, sooty blotch, fireblight, storage rots and *Stemphyllium* on pears. The convener, who did not attend, has heard reports that it was a very good workshop, including the entertainments which occurred every

day. The proceedings of the workshop are to be published as IOBC Bulletin in spring 2003. The next workshop is being planned for 2005 in Italy.

Stone fruits: A biennial meeting was held in Opatija, Croatia 14th-16th October 2002. The local organizers were IVAN CIGLAR and BOZENA BARIC. There were 27 participants from Croatia (7), Slovenia (3), Italy (9), Hungary (4), France (1), Germany (1), Spain (1), Poland (1).

Particular attention was given to the discussion for the update of IOBC Technical Guideline III: Guideline for Integrated Production of Stone Fruits in Europe, 2nd edition. CARLO MALAVOLTA led the discussion, and an active participation of many scientists from different countries has stressed the opportunity for some changes to be proposed in the original text of the 1st edition.

Most of the work dealt with insect problems, but papers on stone fruit pathology and agronomical aspects have been presented as well. The topics ranged from studies on development, behaviour, and damages of specific pests such as *Cydia molesta*, *Cydia tenebrosana*, *Anarsia lineatella*, *Pseudaulacaspis pentagona*, Thrips and Scarabs, to control means and strategies in integrated and organic fruit production, including natural antagonists. Studies have been presented also on the transmissibility of PPV, problems caused by bacteria, detection of phytoplasmas, and biological control of fungal diseases. The effects of soil management and natural compound based nutrition have been the object of two agronomical presentations. The next meeting will be with the whole working group in Italy in 2004 (see below).

Forthcoming meetings

Soft fruits: The fourth workshop on Integrated Soft Fruit Production is due to take place in Conthey, Switzerland from 14th to 16th October 2003. A first announcement, preliminary programme and pre-registration form are available on the IOBC/WPRS home page (<http://www.iobc-wprs.org>) or contact the local organiser (CHRISTIAN LINDER, email: christian.linder@rac.admin.ch) or the scientific secretary of the sub-group (DARIUSZ GAJEK, e-mail: dgajek@insad.pl) for further details and watch out on the IOBC web site for the second announcement, call for papers and booking forms.

The whole Working Group: The next meeting of the whole Integrated Plant Protection in Fruit Crops Working Group will be the 6th International Conference on Integrated Fruit production, which will take place at Baselga di Piné, Trento, Italy on 25-30 September 2004. Claudio Ioriatti has kindly agreed to be the local organiser. A scientific organising

committee has been formed under the chairmanship of the convener and will plan the conference by e-mail correspondence. The conference will cover all aspects of IPP on stone, pome and soft fruits. A young scientists poster competition with a substantial cash prize, a poster review of IFP development in different countries and a special session on pesticide resistance are amongst the activities being planned. The first announcement of the conference will be issued in 2003.

Publications

The third edition of the pome fruit IFP guidelines was published in December 2002 [IOBC/wprs Bulletin 25(8), 2002]. Belatedly, it was agreed to include a footnote to permit the use of prohexadione-ca to control the secondary spread of fireblight in the guidelines which was issued as an addendum to section 9. The stone fruit guidelines were also revised (at the meeting at Opatija, see above) and will be published in spring 2003.

JERRY CROSS
Convener
HRI-East Malling
10 January 2003

Study Group “Integrated Control in Citrus Fruit Crops” Report of the Meeting in Valencia, Spain, 6-8 November 2003

The meeting was held in Valencia, Spain, between 6 and 8 November, 2002, in a conference room provided by the Universitat Politècnica de València. First and third days were dedicated to presentations and posters, and in the intermediate day there was an excursion to visit a citrus farm and a packinghouse.

In all, 64 participants assisted to the meeting, presenting 41 communications (26 oral and 15 as poster). This represents a substantial increase in comparison with previous meetings of the Citrus Working Group. Most participants were Spanish (44). Other countries included Italy (11 participants), Morocco (4) Portugal (3), Algeria (1), Belgium (1) and Germany (1).

The two most represented pests were the citrus leafminer and the medfly, with nine presentations each. Most presentations on citrus leafminer dealt with biological control with native and exotic parasitoids in different areas of Spain, Italy and Morocco. Concerning the medfly, four

presentations were based on field control with chemosterilizants, nematode fungus and mass-trapping, and three on the comparison of traps and attractants. Diaspidid scales were presented in 10 communications dealing with different species like *Aonidiella aurantii* or *Planococcus citri*, and with different topics like parasitoids, population dynamics or sensibility to oil sprays. Finally, three communications dealt with identification and sampling of beneficials, two with thrips and two with the mite *Tetranychus urticae*.

The objective for next meetings would be to maintain the participation trying to attract researchers that are working in Citrus pests and diseases from the Mediterranean area and other countries, and to broaden 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. An increase of participation could thus be obtained if people working in those two plant protection aspects starts to participate regularly.

In the afternoon of the first day the present members of the IOBC/WPRS citrus group elected F. Garcia-Marí as Convenor and it was agreed to organize the next meeting in 2004 in Portugal.

F. GARCIA-MARÍ (January, 2003)

1st European Meeting of the IOBC/WPRS Study Group “Integrated Protection of Olive Crops”, Maich - Chania, Greece (Crete), May 29-31, 2003

Second Announcement

Local Organizing Committee:

MSc. A. Kalaitzaki	Prefecture of Chania, (Chairwoman)
Prof. D. Lykouressis	Agricultural University of Athens (Vice-president)
Dr. V. Alexandrakis	Institute of Olive Tree and Subtropical Plants of Chania, N.AG.RE.F. (G. Secretary)
Dr. D. Perdikis	Agricultural University of Athens, (Treasurer)
Dr. N. Malathrakis	Technological Education Institute of Heraklio
Prof. D. Prophetou-Athanasiadou	Aristotle University of Thessaloniki

Dr. St. Michelakis	Institute of Olive Tree and Subtropical Plants of Chania, N.AG.RE.F.
Mr. A. Ioannou	Hellenic Ministry of Agriculture
MSc K. Varikou	Institute of Olive Tree and Subtropical Plants of Chania, N.AG.RE.F.

Co-sponsors

- *N.AG.RE.F*
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- *Hellenic Ministry of Agriculture*

The organization of the conference is supported by the

Conference Centre Bureau of Maich
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Scientific Programme Information

Abstracts

Please send the abstract of your oral presentation or poster not later than **March 31, 2003** in electronic format (MS-Word, if possible) as an attached file, to the e-mail address valexandr@nagref-cha.gr. You can obtain the abstract form from the meeting website: www.maich.gr/iobc.

Only abstracts received before that date will appear in the "Abstract book".

Instructions for Preparation of Abstracts

- Abstracts must be in English and typed in Times New Roman font, size 12 pt, on A4 paper, only one page at maximum. Since abstracts will be reproduced by direct photo-offset, authors should take care in preparing the abstract because typographical errors and corrections will remain apparent in the abstract publication.
- The title of the abstract should be in bold and capital letters.
- The name(s) of the authors should be in capital letters with the name-presenting author underlined. Type the name of author(s) preceded by initials.
- Institutional affiliations should follow the list of authors on the next line.
- Leave one blank line between the address and the first line of the abstract.
- Use single line spacing and 2.5 cm margins all round.
- Use a laser printer or inkjet with a clear image.

Scientific Secretariat

All correspondence concerning the Scientific Programme, submission of abstracts, poster presentations, etc. should be addressed to:

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Official Working Language: The official language of the meeting will be English. No simultaneous translation will be available.

Oral Presentations: The duration of each oral presentation is 15 minutes including 5 minutes for discussion.

Poster Presentations: Poster dimensions recommended are 90 cm w X 120 cm h. Text, photographs and drawings should be large enough to be readable.

Abstract Publication: A publication compiled of all abstracts will be available to registrants in the Meeting file of documents.

Audio Visual Equipment: A slide projector, overhead projector, PC with CD driver and Microsoft Power Point programme, Video Data projector and laser pointer will be available for all sessions.

Publication in IOBC/WPRS Bulletin: Full articles will be published in the Proceedings of the meeting in the IOBC/WPRS Bulletin. Authors should give their full papers (hard copy, diskette in a word format) during the registration at the meeting. The bulletin will be printed after the meeting. Only the papers received during the registration will be published in the Bulletin. Please follow the "Instruction to the Authors" for the IOBC/ WPRS Bulletin at the web page:

<http://www.iobc-wprs.org/pub/index.html>.

Scientific Programme and Information on Working Group Meetings

The detailed scientific programme with definitive titles and names of chairpersons will be provided at the registration. You should also obtain the scientific programme form from the meeting website a few days before the meeting: www.maich.gr/iobc

Provisional Programme

Wednesday, May 28: Arrival, Registration.
Thursday, May 29: Registration Official opening. Scientific presentations, dinner
Friday, May 30: Scientific presentations.
Saturday, May 31: Excursion

General Information

Registration and Meeting Venue

Conference Center Office of MAICH:
Mediterranean Agronomic Institute of Chania
Macedonia Rd., GR-73100, Chania
P.O. Box 85, Greece
Tel: +30 8210 35080-81, Fax: +30 8210 35001
E-MAIL: confer@maich.gr, <http://www.maich.gr>

Chania Town and surroundings: For more information please visit the official website of the Greek National Tourism Organization: www.gnto.gr or the website of the meeting www.maich.gr/iobc

Letter of Invitation: If requested, the Chairman of the Organizing Committee will be happy to provide a personal letter of invitation to intended participants to facilitate visa formalities, after their registration to the conference. This letter should not be considered a commitment from the Organizing Committee to provide financial support.

Passport and Visa: A valid passport is requested for entering Greece. For citizens of EU member countries, a valid identity card is sufficient. A visa is required for many of the Eastern European, Asian, or African countries. For more information, kindly contact the Greek Consulate in your home country or a local travel agency.

Public Transportation to Chania: A local bus with the number 13 passes every 20 minutes outside of the conference venue. Transportation from the designated hotels to the Conference Center and vice versa will be provided by the organizers.

Electric Power: All suppliers are 220 volts, 50Hz AC.

Credit Cards: Most major credit cards are accepted at restaurants and shops.

Currency and Exchange: The national currency of Greece is the Euro. Exchange can be secured from local and exchange offices, which usually do not charge a commission fee.

Accommodation Information

Participants should book their accommodation by contacting Mr Dimitris Spanoudakis at iobc@clubtours.gr
An accommodation form will be provided through the website of the meeting www.maich.gr/iobc.

Registration Information

Registration: Please complete the registration form enclosed. Each participant must complete a separate form. Please return completed form with payment to the Meeting Secretariat as it is indicated on the registration form. – You can also obtain the registration form from the meeting web site: www.maich.gr/iobc.

Registration Fees (in Euro)	Before March 31st, 2003	After March 31st, 2003
Participants	215 €	265 €
Accompanying person/s	25 €	25 €
Students	113 €	134 €

Participants should register prior to the opening of the Meeting by submitting the above mentioned registration form. Payment for registration is required in Euro before the meeting and can be made via the methods mentioned on the registration form.

Deadline for registration, 15 May 2003.

The registration includes: admittance to all sessions, coffee breaks, two lunches, abstract book, meeting material, gala dinner (with Cretan orchestra and local dancers) on Thursday 29 May, excursion on Saturday 31 May, certificate of attendance, transportation from the designated hotels to the conference center and vice versa and list of participants.

Payment: Payment of registration fees should accompany your registration form. No registration will be confirmed until payment has been received. The registration fees can be paid by:

1. Credit card, only in Euro and ONLY American Express, Visa and Mastercard
2. Check enclosed, in EUR payable to: Mediterranean Agronomic Institute of Chania
3. Bank transfer in EUR, should be free of transfer charge, stating: **"IOBC"** and **NAME OF PARTICIPANT**, to ALPHA CREDIT BANK, branch of Chania, swift code: CRBAGRAAAXX, Account number: 660-00-2002-011318

Cancellation Policy for Registration:

For written cancellations received by **May 1st, 2003** cancellation fees of 50% will apply. **After that date, registration fees are not refundable.**

Registration Desk Hours: The registration desk will be open during the Meeting's hours.

New IOBC/wprs Publications

New IOBC/wprs Bulletins

The Publication Commission of the IOBC/wprs has issued the following Bulletins in 2002 (including the Contents of the Bulletins); see also *Profile 32*: 23-35 for IOBC/wprs Bull. 25(1-5) and *Profile 33*: 32-34 for IOBC/wprs Bull. 25(6 + 8), (2002) or visit the IOBC/wprs homepage.

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Working Group „Integrated control of soil pests”, Sub Group “*Melolontha*”, Proceedings of the meeting at Aosta (Italy), 24-26 September 2001. Editor: S. Keller. ISBN 92-9067-144-9 [x + 125 pp.]

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Working Group „Biological Control of Fungal and Bacterial Plant Pathogens", Proceedings of the meeting *Influence of A-Biotic and Biotic Factors on Biocontrol Agents* at Pine Bay, Kusadasi (Turkey), 22-25 May 2002. Edited by: Yigal Elad, Jürgen Köhl and Dani Shtienberg. ISBN 92-9067-147-1 [xxiii + 418 pp.]

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Other interesting publications brought to attention of Profile

Leppla, N.C., K.A. Bloem & R.F. Luck (eds., 2002): Quality Control for Mass-reared Arthropods. Proceedings of the Eighth and Ninth Workshops of the IOBC Working Group on Quality Control of Mass-Reared Arthropods. – See: <http://biocontrol.ifas.ufl.edu/amrqc/IOBCproceedings/amrqcbook.htm>

Wittenberg, R. & M.J.W. Cock (2001): Invasive Alien Species: A Toolkit of Best Prevention and Management Practices. – xii + 228 pp., Wallingford (CAB International), US\$ 50.00 (ISBN 0-85199-569-1).

Butt, T.M., C. Jackson & N. Magan (eds., 2001): Fungi as Biocontrol Agents: Progress, Problems and Potential. – 390 pp., New York (CAB International), US\$ 140.00 (ISBN 0-85199-356-7).

Time-Table of forthcoming events

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

02 - 08 February, 2003: 8th International Congress of Plant Pathology, Christchurch, New Zealand. – ICPP2003 Conference Secretariat, PDG, POBox 84, Lincoln University, Canterbury, New Zealand, e-mail: icpp2003@lincoln.ac.nz, <http://www.lincoln.ac.nz/icpp2003/>

- 17 - 20 March, 2003: 3rd International *Bemisia* Workshop, Barcelona, Spain. – R. Gabarra, Dept. de Proteccio Veg., IRTA-Centre de Cabriils, 08348 Cabriils, Barcelona, Spain, e-mail: rosa.gabarra@irta.es, <http://www.irta.es>
- 24 - 28 March, 2003: German Congress of Entomology, Halle/Saale (Germany). – Entomologentagung 2003, Prof. Dr. Gerald Moritz, University Halle-Wittenberg, Institute for Zoology, Developmental Biology, Domplatz 4, 06108 Halle / Saale, Tel 0345/ 5526430, Fax 0345/5527121, e-mail: moritz@zoologie.uni-halle.de, <http://www.entomologentagung2003.uni-halle.de>
- 6 May, 2003: 55th International Symposium on Crop Protection, Gent, Belgium. – Kris De Jonghe, Department of Crop Protection, Faculty of Agricultural and Applied Biological Sciences, Ghent University, Coupure Links 653, B-9000 Ghent, Belgium, Tel +32/9/2646022, Fax +32/9/2646238, e-mail: kris.dejonghe@rug.ac.be, <http://allserv.rug.ac.be/~hvanbost/symposium>
- 11 - 14 May, 2003: 4th International Workshop on Otiiorhynchinae and related root weevils. – Marian de Beuze, Applied Plant Research, Nursery Stock Research Unit, P.O.Box 118, NL 2770 AC Boskoop, Fax +31/172/236710, e-mail: weevil@ppo.dlo.nl
- 11 - 14 May, 2003: Meeting of the **IOBC/wprs Study Group "Landscape management for functional biodiversity"**, Bologna, Italy. – Dr. Giovanni Burgio, DiSTA, University of Bologna, via F. Re, 6 – Bologna (Italy), E-mail: gburgio@entom.agrsci.unibo.it, Tel +39 051 2091552, Fax: ++ 39 051 251052, mobile phone: 338 3220227
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- 24 - 28 May, 2003: Meeting of the **IOBC/wprs Working Group "Insect Pathogens and Insect Parasitic Nematodes"** entitled "Growing Biocontrol Markets Challenge, Research and Development", Salzau Castle, Kiel, Germany. – Ralf-Udo Ehlers, Institute for Phytopathology, Christian-Albrechts-University Kiel, Klausdorfer Str. 28-36, 24223 Raisdorf (Germany), Fax: +49 4307-83 98 34, e-mail: ehlers@biotec.uni-kiel.de, <http://www.iobc.de> *see also page 13*
- 29 - 31 May, 2003: Meeting of the **IOBC/wprs Study Group "Integrated Protection of Olive Crops"**, Chania (Crete), Greece. – Dr. Alexandrakis Venizelos, Institute of Olive Tree and Subtropical Plants of Chania, Agrokipio, GR-73100 Chania (Greece), Tel: +30 8210 83449, Fax: +30 8210 93963, e-mail: valexandr@cha.gr
see also page 28
- 02 - 06 June, 2003: **IOBC/wprs Working Group: "Multitrophic interactions in soil for integrated plant protection"**, The Physik-

- zentrum, Bonn-Bad Honnef. – Prof. Dr. Richard A. Sikora, Soil-Ecosystem, Phytopathology and Nematology, Institut für Pflanzenkrankheiten, Universität Bonn, Nussallee 9, D-53115 Bonn, Germany, Fax: +49 (228) 732432, e-mail: rsikora@uni-bonn.de
- 03 - 04 June, 2003: 6th International Fumigants and Pheromones, International Technical Conference and Workshop, Kopenhagen, Denmark. – e-mail: insectsltdqaol.com, <http://www.insectslimited.com>
- 06 - 10 July, 2003: Meeting of the **IOBC/wprs Working Group "Integrated Control in Oilseed Crops"** at the 11th International Rapeseed Congress, Kopenhagen, Denmark. – Prof. Dr. Volker H. Paul, Universität-GH Paderborn, FB Agrarwirtschaft, Lünecker Ring 2, D-59494 Soest (Germany), Tel +49-2921-378233, Fax +49-2921-378200, e-mail: paul@fh-swf.de, Local organizer: Ingrid Williams from BBSRC, e-mail: ingrid.williams@bbsrc.ac.uk
- 06 - 11 July, 2003: 15th International Plant Protection Congress, Beijing, China. – <http://www.ipmchina.net/ippc>, Registration: <http://www.congress.com.cn>
- 26 - 29 July, 2003: 8th International Symposium on Neuropterology, College Station, Texas, USA. – Dr. John D. Oswald, Dept. of Entomology, Texas A&M University, College Station, TX 77843-3507, USA, Tel +1 (979) 8462-3507, Fax +1 (979) 845-6305, e-mail: j-oswald@tamu.edu, web: <http://entowww.tamu.edu/research/neuropterida/isn8/index.html>
- 21 - 24 September, 2003: 10th Workshop of the **IOBC Global Working Group "Arthropod Mass Rearing and Quality Control"**, Montpellier (France). – Ms. Mireille Montes de Oca, IOBC AMRQC Workshop, Agropolis International, Avenue Agropolis, F-34394 Montpellier Cedex 5, France, Tel +33(0)467047530, Fax 33(0)467047599, e-mail: iobc.workshop@agropolis.fr, <http://www.amrqc.org>
The Workshop will focus on all issues related to the rearing of entomophagous and phytophagous insects and mites, and to principles and practices of quality control.
- 08 - 10 October, 2003: **IOBC/wprs Working Group "Pesticides and Beneficial Organisms"**, Ponte de Lima, Portugal. – Dr. Heidrun Vogt, BBA, Institut fuer Pflanzenschutz im Obstbau, Schwabenheimer Str. 101, D-69221 Dossenheim, Tel +49 (0)6221-86805-30, Fax +49 (0)6221-86805-15, e-mail: Heidrun.Vogt@urz.uni-heidelberg.de
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- 13 - 15 October, 2003: **IOBC/wprs Working Group "Integrated Protection in Field Vegetables"**, Deinze, Belgium. – Prof. Dr. Stefan Vidal, Institute for Plant Pathology and Plant Protection, Entomological Section, Grisebachstr. 6, D-37077 Göttingen, Tel +49-551-399744, -393730, Fax +49-551-393730, -3934187, e-mail: svidal@gwdg.de

- 14 - 16 October, 2003: **IOBC/wprs Working Group "Integrated Plant Protection in Fruit Crops; Sub-group Soft Fruits"**: Workshop on Integrated Pest and Disease Management in Soft Fruit Crops, Centre d'arboriculture et d'horticulture des Fougères, CH-1964 Conthey, Switzerland. – Local organizer: Christian Linder, Station fédérale de recherches agronomiques de Changins, CH-1260 Nyon, Switzerland, e-mail: christian.linder@rac.admin.ch; *see also page 26*
- 30 November - 4 December, 2003: **IOBC/wprs Working Group "Integrated Control in Protected Crops, Mediterranean Climate"**, Agadir, Morocco. – Dr. C. Castañé and Dr. A. Hanafi: *see page 21*

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- 25 - 30 September, 2004: **IOBC/wprs Working Group "Integrated Plant Protection in Fruit Crops"**, Baselga di Piné, Italy (Trento). – Jerry Cross, Entomology and Plant Pathology, Department, Horticulture Research International, East Malling, West Malling, Kent, ME19 6BJ, UK, e-mail: jerry.cross@hri.ac.uk

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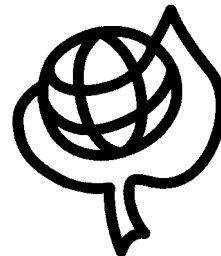
The summer-issue of *Profile* (number 35) will be edited in July 2003. Please send your contributions for this issue of *Profile* to me at the latest:

15 June, 2003

but don't hesitate to contact me long before this deadline!

Please send your contributions by e-mail (preferably), mail or fax to:

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