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OF NOXIOUS ANIMALS AND PLANTS (IOBC)

IOBC NEWSLETTER 73

ORGANISATION INTERNATIONALE DE LUTTE BIOLOGIQUE
CONTRE LES ANIMAUX ET LES PLANTES NUISIBLES (OILB)

SUMMER 2001

Web address: www.iobc.agropolis.fr

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as the Section of Biological Control of the International Union of Biological Sciences (IUBS)

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BIOCONTROL

The BioControl Manage-
ment Board meeting was
held at Noordwijkerhout,
The Netherlands on 30 Au-
gust 2001. The Management

Board consists of six people
who serve four-year terms:
Dr. L.E. Ehler (President
Global IOBC); Dr. A. Gass-
mann (Secretary General

Global IOBC); Dr. H.M.T.
Hokkanen (Editor-in-chief
of BioControl); Dr. J. Huber
(Vice-President IOBC
/WPRS), representative of

the WPRS section; Dr. R. Wiedenmann (Secretary-Treasurer IOBC/NRS), representative of the NRS section; Dr. S. Pruszyński (Vice-President of Global IOBC), representative of the EPRS section. The Board has a permanent representative from the WPRS and the NRS sections. The Board also includes a representative of one of the other four sections. The Board will be chaired by J. Huber. The Editor-in-Chief, Dr. H.T.M. Hokkanen gave a full report of the current status of BioControl. During the first six months of 2001, 48 papers were submitted of which 33 (61%) were accepted and published in the first issues of Volume 46. Although BioControl budgeted 400 pages in 2000, some extra pages were published and volume 45 reached 495 pages in total. As already mentioned in the Newsletter 72, BioControl will increase to 600 pages, beginning 2002 to allow for the publication of an increasing number of good papers submitted to the Journal. It will then be published bimonthly, with six issues per volume. As compared to 2000, the increase in number of issues from 4 to 6 should allow a reduced time between submission and publication. The increased number of budgeted pages from 400 to 600 will result in an increase in the subscription rate of individual members from 68

to 85 EURO. This subscription rate will remain the same in 2003. The institutional subscription rate for 2002 will be 336 EURO. The production of BioControl is on schedule as of mid-2000. The Management Board also raised the possibility for IOBC to buy some extra 100 pages (or one issue) per year that could be used to publish special issues. These special issues would go through a normal peer review and would not be paid for by the subscribers.

The Editorial Board of BioControl includes nine members who serve for three years, with renewal possible. The editor-in-Chief serves for 6 years. To allow a smooth transition, three members should be replaced every 2nd year. J. Trumble (IPM), who will become the Editor-in-chief of the Journal of Economic Entomology, will need to be replaced this year. H. Müller-Schärer (Weeds) has expressed his desire to withdraw from the Editorial Board and will soon need to be replaced. J. Brodeur will also need to be replaced during the next wave of rotation. By the end of September, the Board will discuss a list of potential candidates to join the Editorial Board for IPM and Weeds. It was noted that it is necessary to keep a balance in the representatives between North America and Europe. It was also noted that there is no representa-

tive from Australia. A new manuscript handling process is in preparation (in which the EiC will review the papers before they are sent to the authors for revision). The Board finally agreed that the decision to sell BioControl to Kluwer would need to be considered by the General Assembly to be held in Australia in 2004. The following was not discussed at the meeting of the Management Board although the production of BioControl is on schedule as of mid-2000, a few subscribers still do not receive their journal on time, although the lists of subscribers were sent to Kluwer on schedule. The reasons are obscure but it may be due in part to the listing system of IOBC, which is not fully compatible with the system used by Kluwer. The listing system of IOBC will be revised by the end of this year.

It is absolutely necessary that the renewed list of subscribers to BioControl is sent to Kluwer by mid-January 2002. Therefore:

Regional Sections are asked to submit their membership lists prior to December 31. It is essential for a normal and regular distribution of the journal that subscriptions are renewed before the end of the year.

NEXT IOBC INTERNATIONAL SYMPOSIUM

The organisation of the next IOBC International Symposium is in progress. The

second announcement will be sent in January 2002. Registration online will soon be

possible at www.oilb.agropolis.fr

REGIONAL SECTIONS

Share your information:

Activities and events within IOBC Regional Sections do interest your colleagues outside the Sections as well. They will most probably not be informed if you do not tell them. You may share information by sending any kind of news to the Secretary General (address on first page).

ASIA AND THE PACIFIC REGIONAL SECTION (APRS)



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Past President: Dr. R. Muniappan, Agricultural Experimental Station, University of Guam, Mangilao, Guam 96923 USA. Fax: +1-671-734-6842, e-mail: rmuni@uog9.uog.edu.

Biological pest control by augmentation of natural enemies in Japan

Registration of natural enemies is needed for their commercialization in Japan. Since registration of *Encarsia formosa* and *Phytosei-*

lus persimilis in 1995, ten arthropod natural enemy species have been registered for the control of whiteflies, spider mites, aphids, thrips and leafminers of nine greenhouse crops. Among them, eight species are imported species that have been commercialized in other countries, while two species are indigenous *Orius* species, *O. sauteri* and *O. strigicollis*. They are expected to be used to control *Thrips palmi* and *Frankliniella occidentalis*. Mass production system of these two *Orius* bugs has been developed in two companies for commercial use. Two entomopathogenic fungus diseases, *Verticillium lecanii* and *Paecilomyces fumosoroseus* were registered in these two years against whiteflies and aphids in greenhouses. To control root-knot nematodes attacking field vegetables and sweet potatoes, an endospore-forming bacteria, *Pasteuria penetrans* was registered in 1998. The Japanese government enacted a law for promotion of sustainable agriculture in 1999. Use of these commercialized natural enemies is recommended in the law to be used in sustainable agriculture systems.

E. Yano (National Agricultural Research Center, Japan)

AFROTROPICAL REGIONAL SECTION (ATRS)



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Treasurer: Dr. J. Ambrose Agona, Post Harvest Program, Kawanda Agricultural Research Institute, P.O. Box 7065, Kampala, Uganda. e-mail: karihave@starcom.co.ug

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An international conference, *The Practice of Biological Control: Importation and Management of Natural Enemies and Agents*, was held 2-5 August 2001 at Montana State University. The conference consisted of 11 invitational keynote

speakers and panel discussion sessions covering issues of importance to all of the disciplines involved in applied biological control. Afternoon poster sessions provided an opportunity for attendees to contribute specific research and application information. The conference was attended by 140 practitioners from 20 countries, and was co-sponsored by IOBC-NRS and the Cooperative States Research, Education and Extension Service Experiment Station Committee on Organization and Policy, Biological Control Working Group (ESCOP-BCWG). The conference was supported largely by registration fees of attendees, with additional funds provided by the National Biological Control Institute (USDA-APHIS-PPQ-NBCI), the USDA Competitive Grants Program (NRI), and the Invasive Species Initiative (USDA-APHIS). Limited copies of the conference program are available from the conference organizer (Tim Kring, tkring@uark.edu). The IOBC/NRS Symposium *The Practice of Biological Control: Importation and Management of Natural Enemies and Agents* was held in Bozeman, Montana 2-5 August 2001. Over 60 participants listened to presentations by an international panel of speakers and contributed to discussions in workshops on a variety of topics.

The IOBC/NRS will hold its annual business meeting and symposium this year in conjunction with the annual meeting of the Entomological Society of America 9-13 December in San Diego, California. The symposium *Generalist Predators in the Mist: The Search for Clarity*

will feature 5 speakers as they examine our current thinking in three areas. Growing concerns over non-target impacts of introductions are encouraging greater interest in conservation biological control, where generalist predators are often numerically dominant. It is of great importance to better understand the outcomes of interactions between predators and multiple prey species and types, and the interactions of generalist predators with their environments. There is a pressing need to devise ways of anticipating with some reasonable probability the outcome of interactions between generalist predators and a prey cornucopia in diverse habitats. To do so will require more fundamental knowledge of the life histories of generalist predators and their interactions with other predators, prey, and their environment.

The NRS Greenhouse Working Group will meet jointly with the WPRS IPM in Glasshouses Working Group in Victoria, British Columbia Canada, 8-11 May 2002.

**NEOTROPICAL
REGIONAL
SECTION
NTRS)**



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WORKING GROUPS

WG Arthropod Mass-Rearing and Quality Control

Co-chairman: Dr. S. Grenier, UMR INRA/INSA de Lyon, Biologie Fonctionnelle, Insectes et Interactions (BF2I), INSA, Bâtiment Louis Pasteur, 20 av. A. Einstein, 69621 Villeurbanne Cedex, France, Tel:

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Co-chairman: Dr. N.C. Leppla, University of Florida, Institute of Food and Agricultural Sciences, Department of Entomology and Nematology, Bldg. 970, Room 2005, Natural Area Drive, PO Box 110630, Gainesville, Florida 32611-0630, USA, Tel: +1 352-

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e-mail: Patrick.DeClercq@rug.ac.be
New co-chairmen for the WG.

Following the decision of Dr. Patrick GREANY, and Donald NORLUND to step down as co-chairmen of the WG, two new specialists were invited to chair the WG. Norman LEPPLA was for a long time the co-chairman of the former WG "Quality Control of Mass-Reared Arthropods" until 1998. He has remained active as a participant and past co-chairman. His research emphasis is large-scale augmentation bio-logical control, particularly commercialization of natural enemies for use in integrated pest management (IPM). He is professor of entomology and IPM Coordinator at the University of Florida. Patrick De Clercq is professor of agricultural entomology and biological pest control at Ghent University, Belgium. For more than 10 years, his research focus has been on the production and use of predatory Heteroptera (Podisus, Orius) in augmentative biocontrol. Special emphasis is on the value of factitious hosts and artificial foods for rearing insect predators and on the effects of artificial rearing on the quality of these predators. Dr. De Clercq has been Secretary-General of the annual International Symposium on Crop Protection since 1998. S. Grenier Co-chairman of the WG.

WG Biological Control of *Plutella*

Co-chairman: Dr. A.M. Shelton, Department of Entomology, Cornell University, New York State Agricultural Experimenta Station, 416 Barton Lab Ge-

neva, NY 14456, USA. Tel: +1-315-787-2352, Fax: +1-315-787-2326, e-mail: ams5@cornell.edu.

Co-chairman: Dr. A. Sivapragasam, Strategic, Environment and Natural Resources Centre, MARDI, GPO Box 12301, 50774, Kuala Lumpur, Malaysia. Fax: +60-3-948-7639, e-mail: sivasam@mardi.my.

Co-chairman: Dr. D.J. Wright, Department of Biology, Imperial College at Silwood Park, Ascot, Berkshire SL5 7PY, UK. Fax: +441-34-429-4339, e-mail d.wright@ic.ac.uk.

WG Fruit Flie of Economic Importance

Chairman: Dr. B.A. McPherson, Dept. Entomology, 501 ASI Bldg., Pennsylvania State University, Univ. Park, PA 16802, USA. Tel: +1-814-865-3088, Fax: +1-814-856-3048, e-mail: bam10@psu.edu.

WG Ecology of Aphidophaga

Chairman: Pr. J.-L. Hemptinne, Laboratoire d'Agroécologie, Ecole nationale de Formation agromique, BP 87, 31326 Castanet-Tolosan, France. e-mail: jean-louis.hemptinne@educagri.fr.

Co-chairman: Pr. D. Coderre, Département des Sciences Biologiques, Université du Québec à Montréal, CP 8888, Succursale du Centre ville, Montréal, Québec, Canada H3C 3P8. email: coderre.daniel@uqam.ca.

The next conference organised by the Working Group will be held from September the 1st to the 6th 2002 at

Ponta Delgada (Azores, Portugal). The first announcement has already be delivered but it is still possible to express interest for attending the meeting through the WG web site (www.er.uqam.ca/nobel/aphido/) or by contacting the organiser, Dr. A. Onofre soares at aphidophaga8@alf.uac.pt.

To prepare the next conference, a discussion group has been opened during this summer. The decision to launch it is a first response to some concerns expressed by several participants at the previous meeting. These people were concerned that, in biological control of aphids, there is a risk of a growing gap between the interests of academics and practitioners. Such a risk is not pure fantasy and may be illustrated by the differences in the criteria used by these two groups to define an efficient natural enemy. The aim of the discussion group is to explore the possible collaborations between scientists and industries to foster aphid biological control. The conclusions of this exchange of ideas will be presented at the Ponta Delgada conference. To join the discussion group, visit the web site and follow the instructions.

WG Biological Control of *Chromolaena Odorata*

Chairman: Dr. R. Muniapan, Agricultural Experimental Station, University of Guam, Mangilao, Guam 96923 USA. Fax: +1-671-734-6842, e-mail: rmuni@uog9.uog.edu.

The Sixth International Workshop on Biological Control and Management of *Chromolaena odorata* is

tentatively scheduled for February 2003 at Samosir Island, North Sumatra, Indonesia.

The abstracts of the presentations at the Fifth International Workshop on *Chromolaena odorata* are in the *Chromolaena* website. The manuscripts are being edited for publication.

WG Egg Parasitoids

Chairman: Dr. F. Bin, Agricultural Entomology Institute, University of Perugia, Borgo XX Giugno, 06121 Perugia, Italy. Tel: +39-075-585-6030, Fax: +39-075-585-6039, e-mail: fbin@unipg.it.

Co-Chairman: Dr. E. Wajnberg, INRA, 37 Blvd. du Cap, 06600 Antibes, France. Tel: +33-04-93-67-88-92, Fax: +33-04-93-67-88-97, e-mail: wajnberg@antibes.inra.fr.

Co-Chairman: Dr Guy Boivin, Research Station, Agriculture Canada, 430 Boul. Gouin, St-Jean-sur-Richelieu, Québec, Canada J3B 3E6, e-mail: boivin@EM.AGR.CA. Tel.: (450) 346-4494 ext. 210. Fax: (450) 346-7740.

WG IWGO – Ostrinia and Other Maize Pests (by h. Berger)

Chairman: Dr. H.K. Berger, BFL, Spargelfeldstraße 191, 1226 Wien, Austria Tel: +43-1-732-16-2002. Fax: +43-1-732-16-2108, e-mail: hberger@bfl.at.

Co-chairman: Dr. L.C. Lewis, USDA-ARS, Corn Ins. Research Unit, Genetics Laboratory, c/o Insectary Bldg., Iowa State University, Ames, Iowa 50011, USA. e-mail: leslewis@iastate.edu.

Convenor of the Diabrotica – Subgroup: Dr. Richard C. Edwards, Purdue University, 1158 Entomology Hall; West Lafayette, IN 47907 – 1158, Indiana; USA; e-mail: rich_edwards@entm.purdue.edu

Meetings, Workshops

The last meetings of IWGO took place in 1) **Adana**, Turkey: XXth IWGO meeting (Proceedings are available either from the convenor or the local organizer : Prof. Serpil KORNOSOR, University of Çukurova; Faculty of Agriculture, Plant Prot. Department, T - 01330 Adana; Turkey), and 2) **Stuttgart**, Germany: VIIth International Workshop on Diabrotica virgifera (together with 5th FAO/TCP Meeting, the 6th EPPO ad hoc Panel and the EU Project Meeting).

The next meetings in 2001 are planned at 1) **Venice**, Italy: XXIst IWGO (together with the VIIIth International Workshop on Diabrotica virgifera, the 7th EPPO ad hoc Panel and the EU – project Meeting). October 27 – November 2nd, 2001. The local organizer is: Regione del Veneto, Servizio Fitosanitario, Ufficio di Venezia, Via A. Poerio 34; I-30172 Mestre (VE) Italy, Tel.: # 39 / 41 / 27 95 702 Fax # 39 /41 / 27 95 703; e-mail: serv.fitove@regione.veneto.it

Application forms for the meeting and a provisional program can be obtained from the convenor. and 2) **Nitra**, Slovak Republic

Publications

The Working Group released several publications, partly with the support of Global IOBC:

The most recent issue of the IWGO - NEWSLETTER, (a scientific magazine, which

is edited by H. K. Berger (Vienna Austria) since 1981 was released: Volume XXI / 1-2 (December 2000).

All earlier issues of the IWGO - NEWSLETTER can be obtained from the convenor. The proceedings of the XIXth IWGO Meeting (1999) in Adana, Turkey can be obtained from the convenor too. Recently, IWGO has its own web page in the internet

<http://www.infoland.at/iwgo/>. It will partly substitute the “IWGO – NEWSLETTER” in the future. All relevant data and reports will be published via the new medium in the future.

Major results and progress achieved

The most important event in IWGO is certainly the appearance of Diabrotica virgifera virgifera in Europe since 1992. Numerous meetings (Subgroup „Diabrotica“ - Convenor Prof. Richard Edwards, University of Purdue, Lafayette, Indiana, USA) took place.

In the 5th Framework Program of the European Community for Research, Technical Development and Demonstration Activities S. Vidal, (Justus Liebig – University Giessen, Germany) as [Coordinator] together with S. Derridj, (INRA, Versailles, France) L. Furlan, (University of Padova, Italy) H. Hummel, (Justus Liebig - University Giessen, Germany) J. Kiss, (Agricultural University, Gödöllő, Hungary) U. Kuhlmann, (CABI – Bioscience; Delemont, Switzerland) and the IWGO – convenor (H.K.Berger) were successful in getting funds for a research project (“The threat to maize production in the EU by the exotic corn root-worm pest Diabrotica virgif-

era virgifera: sustainable pest management approaches and ecological background”) The project started in spring 2000 and will last until fall 2003. Several meetings of this group took place throughout the year.

WG Biological Control of Water Hyacinth

Chairman: Dr Martin Hill, Agricultural Research Council, Plant Protection Research Centre, Weeds research Division, Private bag X134, Pretoria 0001, South Africa. Tel:+27 12329-5743, Fax:+27 12329-3278, e-mail: rietmh@plant2.agric.za.

The proceedings of the second meeting will be ready by the beginning of September.

M.H. Julien, T.D. Center, M.P. Hill & Ding Jianqing (Eds) Proceedings of the Second Global Working Group Meeting for the Biological and Integrated Control of Water Hyacinth. Beijing, China, 9-12 October 2000.

The price will be AUD 17.00 plus postage and handling. The proceedings have been published by ACIAR and are available from: CSIRO Publications, PO Box 1139, Collingwood, Victoria 3066, Australia, Fax: 61-3-9662-7555, Tel: 61-3-9662-7500, e-mail: Sales@publish.csiro.au, Web Page: www.publish@csiro.au

The third Global Working Group Meeting for the Biological and Integrated Control of Water Hyacinth will

be held in Entebbe, Uganda from the 27th to 29th of August 2002. Anyone needing more information and a first circular can contact :

Dr. James Ogwang at NARO, Uganda: jamesogwang@hotmail.com or Dr. Martin Hill at PPRI, South Africa: rietmh@plant2.agric.za

Global WG on Transgenic Organisms in IPM and Biocontrol

Chairwomen: Dr. Angelika Hilbeck, Swiss Fed. Inst. of Technology, Zurich, e-mail: angelika.hilbeck@ecostrat.ch

In June, we published our second newsletter containing the summaries of the key presentations of the first international meeting of the working group carried out as a satellite meeting to the Rice IPM Network ‘International Conference on Raising Rice Productivity Levels’, held November 27-30, 2000, in Hangzhou, China. Further, the consensus document of the conference was printed as well as a conference review article written by D. Andow, A.-S. Huet and I. Altosaar, which by now has been published in Molecular Breeding 7: 95-97. Supplement on pages 99-100. We will be happy to send copies of the newsletter to anybody interested in this matter (please send requests at my address printed above). At the business meeting of the working group in Hangzhou, it was agreed that developing improved methodologies for biosafety assessment and environmental monitoring

would be a good focus for future working group activities and that outside funding should be sought to allow the group to pursue this international under-taking. A concept note had been put together for circulation to international funding agencies to express their interest. Upon request, the working group is currently preparing a full proposal for the Swiss Agency for Development and Cooperation (SDC) based on that concept note. Also, other organisations expressed interest and will receive the full proposal. I have also been invited to present our working group activities, among other topics, at a joint FAO/IAEA Division meeting on ‘Transgenic arthropods’ in Rome, Italy, in October this year. Our anticipated meeting in Kenya for this fall will, therefore, be postponed until final decisions are made on future funding of our planned activities.

WG on Coffee Berry Borer

Chairman: Dr. J.F. Barrera Gaytan, Division de Tecnología Agropecuaria, El Colegio de la Frontera Sur, Carretera Antiguo Aeropuerto, Km 2.5, Apartado Postal 36, 30700 Tapachula, Chiapas, Mexico. Tel:+52-962-81103. Fax: +52-962-81015. e-mail: jbarraera@tap-ecosur.edu.mx Website: www.tap-ecosur.edu.mx/broca

SCIENTIFIC EVENTS

1st International Symposium on Biological Control of Arthropods, Radisson Wai-

kiki Prince Kuhio Hotel, Honolulu, Hawaii, September 17-21, 2001.

PURPOSE: To bring together biological control practitioners from around

the world to promote and address international issues relating to arthropod biological control. A full day will address pertinent aspects of each of the following major topics: 1) Classical Biological Control, 2) Augmentative Biological Control, 3) Conservation of Natural Enemies in IPM Systems, and 4) Examples of Classical Biological Control. An additional day mid-week will offer visits to ongoing biological control projects and sites of ecological interest. For a copy of the draft program of the meeting, contact Roy Van Driesche at vandries@fnr.umass.edu or, in the near future, you can visit our website www.biocontrol.ucr.edu/isbca

WHY IS THIS MEETING NEEDED AND UNIQUE?

In 1964, practitioners of biological weed control inaugurated a series of international meetings for weed biocontrol scientists that has been held every four years since the original meeting. This series of meetings has been a vital force for information exchange, development of internal strength and cohesion in their group, helping them to resolve issues and meet new challenges to practical use of biological weed control. As a result, weed biological control has prospered. In contrast, no such forum exists for biological control of insects and mites. We are scattered in larger meetings (such as the Entomological Society of America, or other national societies) or have drifted into narrowly focused meetings such as those on host specificity testing, nontarget impacts, or natural enemy biology. This lack of a forum for our group is holding

back our discipline and making us less effective in meeting new challenges to the practical use of our science (which are many and growing). Our intent is to start such a meeting series for biological control of arthropods, beginning in HI in 2001 and continuing every 4 years thereafter. Come join us.

MORE INFORMATION: Contact Dr. Roy Van Driesche, Dept. Entomology, Univ. of Massachusetts, Amherst, MA 01003, Ph 413-545-1061, vandries@fnr.umass.edu. A website at www.biocontrol.ucr.edu/isbca provides details on the purpose, program agenda, regional contacts, and registration information.

Fourth International Workshop on the Management of Diamondback Moth and Other Crucifer Pests, The University of Melbourne, Victoria 3010, Australia, 26-29 November 2001.

The diamondback moth (DBM), *Plutella xylostella* (L.), has risen to major pest status around the world, due to the disruption of its natural enemies and its ability to develop resistance to insecticides. It causes serious damage to Brassica vegetables (e.g. cabbage, cauliflower, broccoli, Brussels sprouts and Asian leafy brassicas) particularly in tropical climates and in Australia, and is also becoming a damaging pest of broadacre Brassica crops (e.g. canola and forage turnips). The fourth international DBM workshop will continue the tradition of the first two workshops held in Taiwan and the third workshop held in Malaysia, i.e.—bringing together scientists and others involved with the Brassica industry from

around the world. Themes of the workshop will focus on revision of progress made in Brassica Integrated Pest Management in the past two decades since the first workshop and will aim to identify the major impediments to its further progress. Emphasis will be placed on innovations in pest management techniques.

For further details, please contact: Fiona Campbell, Conference Management, The Old Physics Building, The University of Melbourne, Victoria 3010, Australia, Email: fionacam@unimelb.edu.au, Telephone: +61 (03) 8344 6389, Fax: +61 (03) 8344 6122, Website:

<http://www.studentadmin.unimelb.edu.au/moth/>

Proposed themes of invited papers: 1) Improving the integration of pest management practices: the theoretical and practical challenges, 2) Brassica IPM adoption: progress and constraints, 3) New chemistries: modes of action and effect on beneficial organisms, 4) The principles and practice of insecticide resistance management with particular reference to *Bacillus thuringiensis*, 5) Advances in insecticide application techniques for mechanised and labour-intensive Brassica production systems, 6) Recent innovations in microbial control of DBM, and 7) Enhancement of parasitoid performance through selective breeding. Note that there will be no concurrent sessions. Contributed papers and posters may fit into the themes outlined above. Other topics may include host plant resistance, ecology, behaviour of pests and parasitoids, host plant interactions, pheromones and chemical control. Time for

discussion: the last session of each day will be run as a broad discussion led by eminent participants in diamondback moth research and development. Language: the official language of the workshop will be English. Field Trip: a field trip to an intensive vegetable-growing region close to Melbourne is being planned at the end of the workshop for interested participants. Additional information on the diamondback moth can be seen at the www site of the International Working Group for Diamondback Moth: <http://www.nysaes.cornell.edu/ent/dbm/>

Resistance 2001. Meeting the Challenge, IACR-Rothamsted, Harpenden, UK, September 23-26, 2001. This major international conference, the 4th in an ongoing series, will review the latest research on the origins, nature, development and prevention of resistance to insecticides, fungicides and herbicides. It will provide a forum for researchers, consultants, regulators and industrialists to present and discuss approaches to overcoming this increasingly important constraint to effective crop protection. Themes will include: (1) Current status of resistance in pest control, (2) Mechanisms of resistance, (3) Population biology of resistance, (4) Assessment of resistance risks, (5) Transgenic crops, (6) Strategies for managing resistance. For more information, contact the Conference Secretariat Office, Resistance 2001, IACR-Rothamsted, Harpenden, Herts AL5 2JQ, UK, Tel:+44-0-1582-763133, Fax: +44-0-1582-760981, Website: <http://www.iacr.bbsrc.ac.uk/>

iacr/tmeeting.html, e-mail: res.2001@bbsrc.ac.uk.

Taller de Transferencia de Tecnología en Control Microbiano de Langosta Schistocerca piceifrons piceifrons Walker. October 2-5, 2001. Hotel el Conquistador, Paseo de Montejo No. 458 X 35, Mérida, Yucatán, México. Para mayor información dirigirse a: Centro Nacional de Referencia de Control Biológico Km. 1.5 Carretera Tecomán-Estación del FF CC Apdo. Postal 133 Tecomán, Colima C.P. 28120, Tel. (332) 4-07-45, Fax (332) 4-27-73, Correo electrónico:

cnrcb@volcan.ucol.mx;

jdepto@volcan.ucol.mx

The Association of Natural Bio-control Producers in association with the International Biocontrol Manufacturers Association and the US National Biological Control Institute is hosting a conference in Washington DC on October 25-27, 2001.”.

OFFICIAL ANNOUNCEMENT as PDF-File. See IOBC web site at <http://www.oilb.agropolis.fr/index.html>

4th International Workshop on the Management of Diamondback Moth and Other Crucifer Pests”, University of Melbourne, Victoria, Australia. November 26-29, 2001 EARLY BIRD REGISTRATION CLOSES 31ST AUGUST 2001 FOR (Registrations will be accepted after the 31st August, however the reduced rate will not be available.) CALL FOR PAPERS CLOSE 31ST AUGUST Website (expression of interest as PDF document included): <http://www.studentadmin.unimelb.edu.au/moth/> Integrated control in Glasshouses, Temperate Climate. 1st announcement of a joint

meeting between WPRS and NRS Greenhouse Working Groups”, Laurel Point Inn, in Victoria, British Columbia, Canada. May 8-11, 2002 The meeting will feature four days of presentations and workshop discussions on IPM in Glasshouses, and will include a research tour of the dynamic glasshouse industry in south-western British Columbia. The meeting will be restricted to 150 delegates, on a first-come, first-served basis. To be placed on a mailing list to receive further details, please contact: Dr D.R. Gillespie, Pacific Agri-Food Research Centre, Agriculture and Agri-Food Canada, P.O. Box 1000, Agassiz, British Columbia, Canada. V0M 1A0. Fax: +1-604-796-0359, e-mail: gilles-pied@em.agr.ca. First Announcement of the 5th International Conference of Hymenopterists, Beijing, China, July 22 - 26, 2002 It is timed to complement the IUSSI Congress to be held in Sapporo, Japan July 28-Aug 3, 2002. Download as PDF-File See IOBC web site at

<http://www.oilb.agropolis.fr/index.html>

“XIVth International Congress of the International Union for the Study of Social Insects”, Sapporo, Japan, July 28-August 3, 2002. This congress is addressed to all scientists interested in the various aspects of inquiry into social and parasocial arthropods, including applied aspects. The official language of the congress will be English. Six plenary sessions and 20-30 symposia will be organised. For more information, please contact Pr. Seigo Higashi, Graduate School of Environmental Earth Science, Hokkaido University, Sapporo, 060-

0810, Japan, Tel: +81-11-706-2250, Fax: +81-11-706-4867, e-mail: hise-mato@ees.hokudai.ac.jp

VIIIth International Colloquium on Invertebrate Pathology and Microbial Control and VIth International Conference on *Bacillus thuringiensis*, Foz do Iguassu, Brazil, August 18-23, 2002. For more information, contact the organising committee, F. Moscardi, Chairman, Fax: +55-371-6100, e-mail: moscardi@cnpsa.embrapa.br

First Announcement of "6th International Symposium: Egg Parasitoids for biocontrol of insect pests" Perugia – Italy, September 15-18, 2002. For more information, see www.unipg.it/eggpar

VIIth European Congress of Entomology, Thessaloniki, Greece, October 7-13, 2002.

An outstanding scientific program will be organised focusing on all aspects of Entomology. It will include 1-2 days of lectures, 3-4 days of specialised symposia and a one-day excursion. The official language will be English. For more information, please contact the congress secretariat, Laboratory of Applied Zoology and Parasitology, Aristotle University of Thessaloniki, 540-06 Thessaloniki, Greece, Tel/Fax: +31-998853, e-mail: matilda@agro.auth.gr.

IIIth IOBC INTERNATIONAL SYMPOSIUM, Co-organized with CILBA, Montpellier, France, October 14-16, 2002 see: <http://www.iobc.agropolis.fr/symposium2002/>.

International Symposium Improving Biocontrol of

Plutella xylostella. Montpellier, France, October 21-24, 2002.

This Symposium will be organized from 21-24 October 2002, in the southern French city of Montpellier. The subject will be "Improvement of the biological control of diamond-back moth, *Plutella xylostella* (L.) Lepidoptera, Yponomeutidae", a major, region-wide, introduced pest of Cruciferous crops in many parts of the world. The Symposium will elucidate the importance of biological control of DBM in each of the continents. It will highlight the status and potential of the bio control organisms (insects, pathogens) utilized and the use of molecular methods to characterize both DBM and its natural enemies, so that appropriate bio control agents can be selected for appropriate pest biotypes. A workshop will discuss evaluate and select solutions for improving current DBM bio control programmes. Based on the workshop conclusions, recommendations will be made aimed at the improvement of biological control of DBM populations worldwide. For more information : please contact : Dr. D. Bordat, Cirad, TA 40/O2, 34398 Montpellier cedex 5, FRANCE; Dr. A. Kirk, USDA-ARS/EBCL - Campus International de Baillarguet, CS 90013 Montferrier-sur-Lez 34988 St. Gély du Fesc Cedex, FRANCE, e-mail: dbm2002@cirad.fr
Website:
<http://dbm2002.cirad.fr>

XVth International Plant Protection Congress, Beijing, China, July 6-11, 2003
The congress will focus on the current progress in the plant protection sciences and technology, and its foreseeable development in the 21st century. To meet the new challenge facing plant protection in the new millennium, the tentative theme of the congress is "The first great gathering for plant protection in the 21st century". The researchers, crop protection consultants, practitioners, extension workers, representatives of regulatory agencies (quarantines, pesticides, biotechnology), administrators, and representatives of industry (chemicals, biologicals, genetic modification, diagnostics, monitoring equipment, software, etc.) are cordially invited to participate to the congress. The scientific program will include opening and closing lectures, plenary lectures, symposia, workshops and poster sessions on more than twenty different topics. The official language of the congress will be English. For more information, please contact Me. WEN Liping, Secretariat, XVth IPPC, c/o Institute of Plant Protection, Chinese Academy of Agricultural Sciences, Beijing 100094 China, Tel/Fax: 00-86-10-62815913, e-mail: ippc2003@ipmchina.cn.net, Website:
<http://www.impchina.cn.net/ippc>.

BOOKS

Biological Control of Insects and Other Pests of Greenhouse Crops is a new 104-page North Central Regional Extension publication that provides information on important natural enemies and offers practical advice on how to use beneficial organisms for pest management in greenhouses. The publication emphasizes the use of biological control, but it also tells how best to use

cultural and least-toxic chemical controls if it becomes necessary to supplement biological control. The publication also provides background information on biological control in general, and on the specific pests and their natural enemies that occur in greenhouse crops to help refine pest management programs. More than 1,000 research, technical, and popular publications were

reviewed and summarized for this publication to help practitioners plan and conduct successful biological control. For more information, contact University of Wisconsin Cooperative Extension Publications, 45 North Charter Street, Madison, WI 53715 or visit their website at <http://www1.uwex.edu/ces/pubs/index.cfm>

Newsletter contributions: I would like to thank all those members who are taking time to send items for this IOBC Newsletter. If you have not previously sent anything, please consider doing so. Remember that this is your opportunity to let others know what is going on in biological control. Take a few minutes and mail/fax or even better e-mail items on biological control to A. Gassmann (address on first page), so they can be included in the next issue. Deadline for submitting items for the summer 2001 issue of IOBC Newsletter is 1st June 2001.

Any comments or remarks on this NEWSLETTER are welcomed. Do not hesitate to contact us if there is some information you would like to see here on biological control.

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