



INTERNATIONAL ORGANIZATION FOR BIOLOGICAL CONTROL
OF NOXIOUS ANIMALS AND PLANTS (IOBC)

IOBC NEWSLETTER 74

ORGANISATION INTERNATIONALE DE LUTTE BIOLOGIQUE
CONTRE LES ANIMAUX ET LES PLANTES NUISIBLES (OILB)
2004

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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A NEW EXECUTIVE COMMITTEE OF THE IOBC GLOBAL FOR 2004-2008

The four-year period of the current Executive Committee will end after the next General Assembly which will be held in Brisbane in August, 2004. New officers are to be elected by all IOBC members by

postal ballot which will be performed before the General Assembly, in Spring 2004. The Executive Committee consists of the President, the two Vice-Presidents, the Treasurer and the Secretary General.

According to the statutes of the IOBC GLOBAL, all officers, except the immediate Past-President, are elected by voting members. With the exception of the Secretary General, officers are not eligible for a second term in the same office.

According to point #7 in the by-laws of the IOBC GLOBAL, a list of candidates shall be proposed by the Global Council to the Executive Committee. Regional Sections will inform their members about the search for candidates for President, Secretary General, Vice President and Treasurer. Any individual IOBC member can be a candidate for office, providing that he or she is supported by 10 regular members. In this case, candidates must contact the Secretary General using regular postal mail (or fax) indi-

cating that they are willing to stand for election. Each candidate must attach a CV to the letter of intent. Candidates must be fluent in English, and should be willing to invest at least 10% of their time in IOBC matters, as well as travel to attend the Annual Executive Committee meeting at their own expense.

The following schedule has been decided upon: (1) all candidates should be presented to the Executive Committee by May 7, 2004, (2) voting papers (list of candidates + CV, etc.) will be sent to the Regional Sections shortly thereafter, and (3) all voting documents must be returned to the Permanent Secretariat at Montpellier no later than June 15, 2004.

IOBC GLOBAL GENERAL ASSEMBLY IN 2004

The next General Assembly(GA) of IOBC GLOBAL will be held on Monday, 16 August, in the evening, during the XXII International Congress of Entomology, 15-21 August 2004, Brisbane, Queensland, Australia. The purpose of the GA is to provide information on the affairs of the Organisation as well as to provide opportunities for Members to express opinions on the activi-

ties of the Organisation and to make recommendations to the Council. The GA is open to all Members. The results of the election for a new Executive Committee will be announced. Try to attend – in particular, of course, if you are attending the XXII International Congress of Entomology!

BIOCONTROL

Dr. James R. Hagler, USDA-ARS, Western Cotton Research Laboratory, Phoenix, Arizona, has been invited to become Associate Editor in the subject area of Predators for BioControl. Dr. Hagler will replace Dr. Keith Sunderland, who did an outstanding job as editor for six years.

The last BioControl Management Board Meeting was held at Montpellier, Agropolis, on 17 October 2002. H.M.T. Hokkanen, the Editor-in-chief of the journal, gave a detailed summary of the current status of the journal. BioControl includes 720 pages/year (2001/2002) (in contrast to the 600 pages planned). BioControl is on

schedule since mid-July 2001 and about 100 MS are received per year. The rejection rate is 51%. This is a normal rejection rate for the good quality Kluwer Journals. It is acknowledged that 100 manuscripts received and a rejection rate of ca. 50% are quite good results and a sign of the high quality of the journal. As of issue 48:2, papers will be printed within 6-8 months of acceptance. However, total handling time is still quite long, i.e. one year or more. Some delays may be due to the time it takes for galley proofs to be returned to Kluwer. Time from submission to acceptance is one year.

PERMANENT SECRETARY AT AGROPOLIS, MONTPELLIER

On November 23, 2003, Gerard Matheron, President of Agropolis, informed the Executive Committee (EC) of IOBC GLOBAL that Agropolis would terminate the agreement which was signed on the 11th of June 1997 that ties IOBC GLOBAL to Agropolis. The announcement is operative from 6 months after the notification of the present letter. Following a request of the EC, a new convention was signed between Agropolis and IOBC GLOBAL to extend for 6 months the presence of the Permanent Secretariat of IOBC GLOBAL at Agropolis. The costs, which are estimated at €13,900, will

be charged to IOBC GLOBAL. The EC made this decision to facilitate the transition of new Global officers and to give more time for seeking a new location for the Permanent Secretariat.

The present and former Executive Committees, and the representatives of all Regional Sections and Global Working Groups, gratefully acknowledge Ms. M. Montes de Oca for 8 years of outstanding work and enthusiasm as permanent secretary of the IOBC GLOBAL.

REGIONAL SECTIONS

Share your information: Activities and events within IOBC Regional Sections may be of interest to 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).

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Asia and the Pacific Regional Section Report

Korea-Japan Joint Conference of Applied Entomology and Zoology, 2003.

The first Korea-Japan joint conference of applied entomology and zoology was held in Busan during 28-31 May, 2003. The conference was organized by The Korean Society of Applied Entomology and The Japanese Society of Applied Entomology

and Zoology as a collaboration between the two societies. Approximately four hundred presentations were given in ten symposia, eight oral sections and eight poster presentation sections. In the symposium sections, there were two symposia relating to biological control and IPM: Biocontrol-based IPM for Greenhouse Vegetables and Integrated Pest Management in Orchards. Since horticulture and greenhouse cultivation are important aspects of agriculture for both countries, IPM or biocontrol are common important issues for both Korea and Japan. Augmentative release of insect natural enemies in greenhouses is being put into practice. IPM systems are being developed for reducing chemical applications in orchards.

International Symposium on Biological Control of Aphids and Coccids

Tsuruoka, September 24-28, 2005. This meeting of the **WG BIOLOGICAL CONTROL OF APHIDS AND COCCIDS** will be organized by Yamagata University with support from The Japanese Society of Applied Entomology and Zoology, The Entomological Society of Japan, The Japanese Ecological Society, and The Society of Population Ecology. It will build upon the long-term series of symposia held from 1965 to 2004 on the behavior and ecology of Aphidophaga. The symposium offers an excellent opportunity for interested researchers from around the world to gather in Japan to discuss wide-ranging topics concerning interactions of aphidophagous and coccidophagous insects and the insects that they attack. The aim of this symposium is to explore both differences and similarities between the ecology of aphidophagous and coccidophagous insects and their interactions with their hosts, in order to establish a general theory for effective biological control of these pests. Six sessions focused on predatory and parasitoid insects of aphids and coccids will be offered :

Session 1: Natural enemy augmentation in protected culture

Session 2: Conservation and promotion of natural enemies

Session 3: Environmental risks of natural enemy introduction

Session 4: Interactions of ants, Homopterans, and natural enemies

Session 5: Intraguild predation, Gary Polis memorial session

Session 6: Information acquisition and foraging in insect parasitoids and predators

To receive further announcements and information regarding the symposium, please contact Dr. Hironori Yasuda (hyasuda@tds1.tr.yamagata-u.ac.jp), Professor of Animal Ecology Department of Agriculture, Yamagata University 1-23 Tsuruoka, Yamagata, 997-8555, Japan.

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Nearctic Regional Section Report

The IOBC/NRS held its annual business meeting and symposium in conjunction with the annual meeting of the Entomological Society of America 28 October, 2003 in Cincinnati, Ohio. The evening included the presentation of the IOBC-NRS Distinguished Scientist Award to Dr.

Bob Luck (University of California - Riverside) and Outstanding Graduate Student Award to Jonathan Lundgren (University of Illinois), and the symposium Landscape Structure, Non-Crop Habitat and Biological Control featuring 5 speakers, followed by a reception. This symposium brought together a number of leading researchers in the field with the goal of presenting recent research findings, generating new ideas, fostering collaboration, and discussing future research directions. Habitat fragmentation as a threat to biodiversity is a well-known phenomenon, but habitat fragmentation as a threat or impediment to the success of biological control has only more recently begun to be explored. Recent research has highlighted the influence of a variety of factors on the abundance of natural enemies, and the importance of non-crop habitat and intervening matrix vegetation on the movement and impact of natural enemies on insect pests and weeds. This exciting new direction in biological control research promises to provide valuable new insights for enhancing the activity of natural enemies in agricultural crops and natural environments and would be of broad interest to the entomological community.

The 2004 IOBC/NRS meeting will be held in conjunction with the annual ESA meeting 14-17 November, 2005 in Salt Lake City, Utah.

The NRS Greenhouse Working Group is co-organizing, with the Asia and Pacific Regional Section (APRS), a symposium on Approaches to Diversity: Pest Management in Protected Crops for the XXII International Congress of Entomology in Brisbane, Australia in August 2004. The NRS Greenhouse Working Group will meet jointly with the WPRS IPM in Glasshouses Working Group in Turku, Finland, 10-14 April 2005.

The Biocontrol Network (a Canadian organization - Jean-Louis Schwartz, Chair, e-mail: jean-louis.schwartz@umontreal.ca) has proposed collaborating with the IOBC/NRS to host a 2005 joint conference

in eastern Canada in early May 2005 that would provide an opportunity to celebrate the 50th anniversary of IOBC Global. The NRS Governing Board is still discussing the details of the proposal at this time, but expects to support it and become a full partner in the meeting.

The NRS publishes a newsletter 3 times a year. Beginning with the summer issue the newsletter will be offered to members electronically instead of as a printed copy.

A new introductory book on biological control, *Natural Enemies: An Introduction to Biological Control*, by Ann Hajek of Cornell University has recently been published by Cambridge University Press in both hard and soft-bound versions. The book covers the major strategies used in biological control, different types of natural enemies used for biological control of invertebrates, vertebrates, weeds and plant pathogens, and the ecological underpinnings behind each type of biological control. Non-target issues are discussed along with present day use of biological control and integration of biological control with other pest management strategies. Throughout the book, specific examples and case studies from around the world are provided. The book includes many illustrations, graphs and tables, along with selected references for further reading at the end of each of the 19 chapters.

Susan Mahr, University of Wisconsin, Madison

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Working Groups

WG BIOLOGICAL CONTROL OF APHIDS AND COCCIDS (FORMERLY ECOLOGY OF APHIDOPHAGA) (BY J.-L. HEMPTINNE)

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The proceedings of the past conference of
our workgroup "Ecology of Aphidophaga"
are now available at the following address:
onofre@notes.uac.pt. People interested in
obtaining a copy must contact Dr. Antonio
Onofre Soares at the above address.

The Working Group has adopted a new
name; it is now "Biological control of
aphids and coccids" because it is more
descriptive than "Ecology of Aphido-
phaga". In addition, under that name, the
Scientific Committee hopes to attract peo-
ple working on both coccids and aphids.
The ability to compare aphids and coccids
is crucial because, while biological control
using these two kinds of insects shares the
same problems, there are also differences.
By understanding the common points and
differences, the Scientific Committee
hopes to foster progress in biological con-

trol. The new name also emphasizes the
fact that the Working Group is interested in
the systematics, biogeography and ecology
of natural enemies of coccids and aphids.

The Scientific Committee is now
composed of A. F. G. Dixon (University of
East Anglia, U. K.), E. W. Evans (Utah
State University, USA), J.-L. Hemptinne
(Chairman; Ecole nationale de Formation
agronomique, France), J. van Schelt
(Koppert), W. W. Weisser (University of
Iena, Germany) and H. Yasuda (Yamagata
University, Japan). The web site is:
<http://www.bf.jcu.cz/tix/strita/aphidophaga/main.html>

The Working Group will meet in 2005 at
the University of Yamagata (Japan) from
September the 25th to the 29th. Full details
as well as first announcement are at the
following address :

<http://www.bf.jcu.cz/tix/strita/aphidophaga/tsurprog.html>

WG ARTHROPOD MASS-REARING AND QUALITY CONTROL (BY SIMON GRENIER)

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The organization's renewed mission is to facilitate and advance cost-effective rearing of high-quality arthropods in support of biological control and integrated pest management. It will remain broadly based in arthropod quality control and flexible to address opportunities in the use of mass-reared arthropods. Pioneers of this working group never imagined the excessive amount of time that would be spent on regulatory issues, requirements for international shipment of natural enemies, the advent of genetically modified organisms, and many other issues we currently address. After conducting ten international workshops, the IOBC-AMRQC has evolved strong roots and traditions in its search for improvements in the rearing and quality control of mass-reared arthropods.

The 10th workshop of IOBC-AMRQC, Agropolis International, Montpellier, France, 21-25 September 2003

The workshop was a great success and involved about 80 participants from 20 different countries in America, Europe, the Middle East, and Africa. In decreasing order of the number of attendees, the main

sources of participants were the USA, Canada, France, The Netherlands, Belgium, Spain, Italy, Switzerland, Iran, and Austria. The workshop focused on all issues related to the rearing of entomophagous and phytophagous insects and mites, and to principles and practices of quality control. An opening talk was presented by Les Ehler, Global IOBC President, and keynote addresses by Allen Cohen, Karel Bolckmans and Joop van Lenteren described the views of industry and academia on the mass production and quality control of arthropod natural enemies and pests (N. C. Leppla, moderator). The following five sessions treated the different aspects of arthropod rearing as they relate to quality control (moderators): Artificial and Factitious Foods (P. De Clercq and S. Grenier), Tools for Quality Control (S. Steinberg and C. Glenister), Innovative Methods for Quality Control (S. Shapiro and T. Coudron), Production Techniques (K. Bolckmans and J. Cuda), and Post-Production Quality Assurance (A. Parker and A. Hale). The approximately 30 papers presented in these sessions provided a basis for discussion and exchange, with the final aim of improving collaboration among scientists, practitioners and regulators. A poster exhibition added useful descriptions of quality control projects being conducted throughout the world. The main social event was a guided tour to a restored Roman wine cellar at Beaucaire followed by a traditional banquet. A producers business meeting was held on the last day of the workshop. Many organizations supported the workshop, including the IOBC (Mireille Montes de Oca), Agropolis, USDA (ARS & NRI), INRA, IBMA, ANBP and the University of Florida.

Proceedings of the Eighth, Ninth, and Tenth Workshops of IOBC-AMRQC

Quality Control for Mass-Reared Arthropods (combined proceedings of the 8th and 9th IOBC, AMRQC workshops) edited by Norm Leppla, Ken Bloem and Bob Luck will be provided free of charge to colleagues who join the IOBC-AMRQC Working Group. Current members of the Working Group can request free copies from Norm Leppla (ncl@ifas.ufl.edu).

This publication is also posted at the IOBC-AMRQC

Website : (<http://www.amrqc.org>).

Proceedings of the 10th workshop, compiled and edited by Simon Grenier, Patrick De Clercq and Norm Leppla, were published as the N°2 (2003) Global IOBC Bulletin available at the IOBC Permanent Secretariat in Montpellier (54 pages, ISBN 2-9518864-1-1).

Membership Application

Membership in the IOBC-AMRQC Working Group is open to all individuals and institutions, both private and public, active in the field of arthropod mass rearing and quality control. Membership in the Working Group is free but members are strongly encouraged to join IOBC. Members will be included in the mailing list and informed about events organized by the Working Group. Colleagues who wish to be enrolled as new members, especially those people not present at the Montpellier workshop, should submit their membership application form. Please download the form in PDF or Word format from the AMRQC website: (<http://www.amrqc.org>) and send or mail it to: Dr. Patrick De Clercq, Laboratory of Agrozoology, Department of Crop Protection, Ghent University, Coupure Links 653, B-9000 Ghent, Belgium.

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I. MEETINGS, WORKSHOPS

The Xth Conference of the last meetings of IWGO **Diabrotica Subgroup** (together with 9th FAO/TCP Meeting, the 8th EPPO ad hoc Panel) took place in Engelberg, Switzerland, January 14-17, 2004.

The next meeting is planned for January 2005 in Bratislava, Slovak Republic

II. PUBLICATIONS

The Working Group released several publications, partly with the support of Global IOBC. The most recent issue of the **IWGO - NEWSLETTER**, Volume XXV / 1, a scientific magazine edited by H. K. Berger (Vienna, Austria) since 1981, was released in February 2004.

All earlier issues of the “IWGO - NEWSLETTER” can be obtained from the convenor.

The proceedings of the XXth IWGO Meeting (2001) in Venice – Padua, Italy can be obtained from the convenor (a few copies are left).

IWGO has its own homepage on the internet which partly supplements the “IWGO – NEWSLETTER”. All relevant data, reports and future meetings will be published via this medium in the future. The address of the IWGO home-page is: <http://www.infoland.at/iwgo/>

It is planned to merge the *Diabrotica* Subgroup with the main IWGO group in the future. The meeting in Bratislava will probably be the last meeting of the Subgroup. From 2005 on, there will most likely be just one IWGO meeting dealing with all matters concerning maize pests. The group will be lead by 3 co-convenors in the future: Harald K. Berger (Austria), C. Richard Edwards (USA) and as a new convenor in IWGO, Ulrich Kuhlmann (Switzerland).

III. REPORT

The most important event in IWGO is still the appearance of *Diabrotica virgifera*

virgifera in Europe in 1992 and its subsequent spread. Since that time, 10 IWGO-*Diabrotica* Subgroup meetings (Subgroup Convenor C. Richard Edwards, Purdue University, W. Lafayette, Indiana, USA) have taken place.

The Subgroup increased rapidly in numbers due to the appearance and rapid spread of this pest in Europe. In 1995, the first *Diabrotica* Subgroup meeting took place in Graz, Austria where 25 colleagues attended the meeting. At the recently completed Xth Subgroup Meeting in Engelberg, Switzerland, there were about 110 participants. The abstracts of the papers presented in Engelberg will be published in the next issue (XXV/1) of the IWGO newsletter in February 2004.

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GLOBAL WG ON TRANSGENIC ORGANISMS IN IPM AND BIOCONTROL

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BOOKS

NEW BOOKS FROM CABI PUBLISHING:

Genetics, Evolution and Biological Control

Edited by L.E. Ehler, University of California, Davis, USA; R. Sforza, USDA European Biological Control Laboratory, France; and T. Mateille, IRD, France
December 2003 288 pages Hardback
ISBN 0 85199 735 X

Price £55.00 (US\$100.00 in the Americas)
This book has been developed from the keynote addresses delivered at the third IOBC International Symposium (co-organized with CILBA) that was held in Montpellier in October, 2002, to address recent developments in genetics and evolutionary biology, and their relevance to biological control. Chapters are organized around the following themes: genetic structure of pest and natural enemy populations, molecular diagnostic tools in biological control, tracing the origin of pests and natural enemies, predicting evolutionary change in pests and natural enemies, compatibility of transgenic crops and natural enemies, and genetic manipulation of natural enemies.

Quality Control and Production of Biological Control Agents:

Theory and Testing Procedures

Edited by J.C. van Lenteren, Wageningen University, The Netherlands
June 2003 352 pages Hardback
ISBN 0 85199 688 4

Price: £65.00 (US\$120.00 in the Americas)
The use of biological control agents has been increasing worldwide and there are now many companies mass-producing such organisms, particularly for the control of insect pests. However, there is a great need for strict quality control in the production and use of these natural enemies, which include insect parasitoids, fungi and

viruses, for example. This book has been written by leading scientists from Europe and North America to provide both background theory and practical guidance on this subject. Key topics covered include: emergence of quality control; the basis of variability in foraging behaviour of natural enemies; coping with variability of natural enemies; availability, mass production and registration; and quality control testing

Biological Control in IPM Systems in Africa

Edited by P. Neuenschwander, International Institute of Tropical Agriculture (IITA), Benin, C. Borgemeister, University of Hannover, Germany, and J. Langewald, IITA, Benin
June 2003 448 pages Hardback 64 colour plates
ISBN 0 85199 639 6

Price: £75.00 (US\$140.00 in the Americas)
Biological control has made a major contribution to integrated pest management (IPM) in Africa, but its documentation has been scattered and often under-reported. This book provides a review of the most important studies, including not only successes, but also on-going challenges. The focus is on arthropod pests and weeds, but diseases are also covered where significant. In 24 chapters, case studies and promising research results are presented that cover biocontrol by naturally occurring agents, by exotic agents or by seasonal manipulation.

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BIOCONTROL SCIENCE AND TECHNOLOGY

Registered members of the IOBC are entitled to a discount on the personal subscription for the Taylor & Francis' journal, ***Biocontrol, Science and Technology***. During 2004 and 2005 (volumes 14 and 15), ***Biocontrol Science and Technology*** is available to members at US\$226.00/ GBP£128.00. For further information on the journal, please visit the Taylor & Francis homepage at: <http://www.tandf.co.uk/journals/titles/09583157.asp>. To take advantage of this offer,

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email: journals.orders@tandf.co.uk

*Don't forget also to register for the free contents alerting service SARA (<http://www.tandf.co.uk/sara/>) to receive a full rundown of articles published in each issue of ***Biocontrol, Science and Technology*** and other T&F journals emailed directly to your computer.*

Newsletter contributions: I would like to thank all those members who sent items for this edition of the 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 concerning biological control to A. Gassmann (address on first page), so they can be included in the next issue.

Any comments on this newsletter are welcome. Do not hesitate to contact us if there is any further information on biological control that you would like to see here.

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Editor: A. Gassmann, General Secretary of IOBC Global, and M. Montes de Oca, IOBC Global Permanent Secretary.