



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

# IOBC NEWSLETTER 83

[WWW.IOBC-GLOBAL.ORG](http://WWW.IOBC-GLOBAL.ORG)

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IOBC is affiliated with the International Council of Scientific Unions (ICSU)  
as the Section of Biological Control of the International Union of Biological Sciences (IUBS)

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Last page: Election form !!!!!

Attachement: Election form !!!!!

Election form to be send to General Secretary of IOBC (either by email or by normal post)

### ELECTION ISSUE – ELECTION ISSUE – ELECTION ISSUE

## 1. EDITORIAL: COUNCIL MEETING AND GENERAL ASSEMBLY DURBAN 2008

Dear members of IOBC,

During the next General Assembly, to be held on Monday 7 July in Durban South Africa, a new Executive Committee for IOBC will be appointed. Please be so kind to fill out the election form and send it to the Secretary General of IOBC Global.

At the General Assembly, the old Executive Committee will report about its activities, Regional Sections and Working groups will give an overview of their work and plans for the future will be discussed. More information about these issues is presented elsewhere in this newsletter.

I would like to use this occasion to thank all IOBC members for their contributions and support to the various activities of IOBC. This Executive Committee has experienced that many of you are willing to invest time in keeping IOBC, a non-governmental organization with very limited financial support, on the worldmap of societies that are striving towards sustainable production of food and, at the same time, support actions to maintain biodiversity.

Joop C. van Lenteren,

President IOBC-Global

## 2. INFORMATION ABOUT ELECTION PROCEDURE

The Executive Committee of IOBC Global consists of the President, the immediate Past-President, the two Vice-Presidents, the Treasurer and the Secretary General. The Executive Committee serves a period of 4 years. With the exception of the Secretary General, officers are not eligible for a second term in the same office.

Individual and honorary Members have one vote each. Institutional Members have 10 votes each. Supporting Members have no vote.

Voting Members may exercise their right to vote only if they have met their financial obligations towards the Organization.

Results shall be determined by a simple majority of votes cast, except for changes in the Statutes and the dissolution of the Organization for which a two-thirds majority of the votes cast shall be required.

The Executive Committee and the Council of IOBC Global propose that for the current election the voting documents (see last pages of this newsletter) can either be sent by regular post or by email to the Secretary General of IOBC Global. If sent by email, it should be in the form of a signed PDF file.

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Prof. dr. S. Colazza

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### 3. CANDIDATES FOR EXECUTIVE COMMITTEE 2008 - 2012

#### President: Prof.dr. Jacques Brodeur (Canada)



Trained as experimental and theoretical ecologist, Jacques Brodeur obtained a Ph.D. in biology in 1990 from Laval University, (Canada). Upon completing a postdoctoral fellowship at Wageningen University (The Netherlands), he accepted a position in the Département de Phytologie, Laval University. Since 2005 he is a full professor at the University of Montréal, Institut de Recherche en Biologie Végétale, and holds the Canada Research Chair in Biocontrol. For the past 18 years, he has studied the biology and ecology of natural enemies used for biological control of arthropod pests. A long-term goal of his research is to identify the governing ecological principles and mechanisms of multispecies interactions within arthropod communities, and to apply these principles to develop reliable and predictive strategies to best take advantage of biological control agents. He has published a large number of papers on parasitoid and predator ecology, host-parasitoid relationships, hyperparasitism, and the biological diversity of arthropod communities in natural and

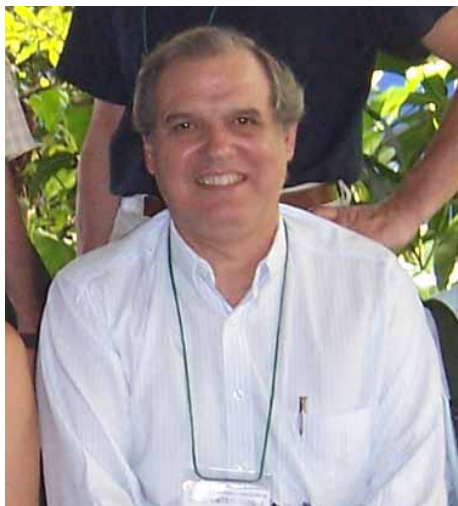
managed ecosystems. Dr. Brodeur has recently edited a book on trophic and guild interactions in biological control. He has served on the editorial board of several journals (Biological Control, Biocontrol, Journal of Economic Entomology, The Canadian Entomologist, Biocontrol Files), has been active in a number of professional societies (Société d'Entomologie du Québec, Entomological Society of Canada, Entomological Society of America, International Organization for Biological Control – NRS), and has contributed to the organization of several national and international scientific meetings or symposia.

#### Vice-President: Dr. Barbara I.P. Barratt (New Zealand)



Barbara I.P. Barratt is a Principal Scientist at AgResearch Ltd, Invermay Agricultural Centre, Mosgiel, NZ. She was trained as an entomologist at the University of Durham (UK) and then moved to NZ to take up a post-doctoral fellowship funded by the NZ National Research Advisory Council, working with the Ministry of Agriculture. Since then she has been employed by MAF, and then AgResearch working mainly in the area of integrated pasture pest management. Barbara's main research programme in the last 10 years has been in the area of biosafety of biological control, supporting the research needs of the regulatory agency in NZ, the Environmental Risk Management Authority (ERMA) and improving their decision-making capability. She leads a multi-agency team of researchers in a coordinated programme developing improved pre-quarantine and quarantine risk assessment for biological control agents, and post-release

environmental impact modelling and validation of ERMA decisions. Barbara was the NZ representative on the OECD working group to develop guidelines for the regulation of invertebrates as biological control agents within OECD countries (1999 - 2002). She has published over 120 peer-reviewed papers. She has been Vice-President of the IOBC-APRS since 2007 and is organising a session on biocontrol safety at the IOBC-APRS conference in Sydney in February 2008.

**Vice-President: Prof.dr. Jose Roberto P. Parra (Brazil)**

José Roberto Postali Parra (1944) is a Full Professor at the Department of Entomology, Plant Pathology and Agricultural Zoology at the College of Agriculture (ESALQ) of the University of Sao Paulo (USP). He is member of the Brazilian Academy of Sciences and of the Academy of Sciences for the Developing World (TWAS). He was trained in Insect Rearing Techniques and Nutrition for Biological Control purposes at the University of Sao Paulo and the University of Illinois, Urbana – Champaign, USA. Since the end of the 1960's he is working in the area of Biological Control and currently he is doing research on Classical and Augmentative Biological control, with emphasis on *Trichogramma* and on the Biological Control of sugarcane and citrus pests. He has published more than 200 peer-reviewed papers, edited books and supervised 50 MDC and 36 PhD students. He was President of Entomological Society of Brazil,

Dean of ESALQ (USP) and received awards from EMBRAPA (Brazilian Institute of Agricultural Research), from the Entomological Society of Brazil and from the Zoological Society of Brazil. He received honours from the state government of Sao Paulo and from the Brazilian government for his contributions in the field of Biological Control.

**Secretary General: Prof.dr. Joop van Lenteren (The Netherlands)**

Joop C. van Lenteren is Professor of Entomology at Wageningen University (The Netherlands), holds honorary professorships at the University of Perugia (Italy) and Beijing Normal University (China), is president of the International Organization of Biological Control and fellow of Royal Netherlands Academy of Sciences. He was trained as ecologist / population dynamicist at Leiden University (The Netherlands) and did his PhD research in field of behavioural ecology and population dynamics at the same University. Since 1970, he is active in the following fields: behavioural ecology, biological and integrated control of pests in greenhouses, and sustainable agriculture. Currently he works on (1) the development of methods and protocols for environmental impact evaluation of (exotic) biological control agents, and (2) the design of sustainable cropping systems. He has published more than 200 peer reviewed papers, supervised more than 70 PhD students and 200 MSc students in the Netherlands and abroad. In

relation with his work on sustainable agriculture he was member of many foreign missions for, among others, FAO (Food and Agriculture Organization of the United Nations), the Worldbank, the Dutch Ministry of Foreign Affairs, and for CGIAR institutes.

**Treasurer: Dr. Alberto Urbaneja (Spain)**

Alberto Urbaneja García is Biological Control Specialist at the Plant Protection Department of the Valencian Institute of Agricultural Research (IVIA, Spain). He was trained as Agricultural Engineer at Lleida University (UdL, Spain), and obtained his PhD from the Politechnical University of Valencia (UPV, Spain) working on conservation biological control in citrus. He has worked for 3 years as R&D manager at Koppert Biological Systems S.L. in Spain. At that moment he was focussed mainly in the

implementation of augmentative biological control strategies in greenhouses in South-eastern Spain. He joined IVIA in 2003 where his extension and research activities include (1) Citrus IPM, where his goal is to move citrus pest management towards techniques based on biological control, and (2) augmentative biological control in vegetables, especially on invasive pests. In both fields, he has studied pest mites, thrips, lepidopteran pests, soft scales, whiteflies, leafminers, borers, fruitflies and their associated natural enemies. He is author or co-author of over 100 professional and trade journal articles, book chapters and extension articles.

#### **4. PROVISIONAL AGENDA FOR GENERAL ASSEMBLY MEETING DURBAN 7 JULY 2008**

**All members of IOBC are invited to attend the General Assembly !!!!**

Please check the ICE programme for the exact time and meeting location for the General Assembly of IOBC Global. The General Assembly is planned for Monday 7 July from 19.00 – 21.00 in the Convention Centre.

Provisional agenda:

1. Welcome, opening of meeting
2. Adoption of the agenda
3. Work done by Council during period 2004-2008, including activities of Regional Sections and Working Groups
4. Finances: developments during past period, budget proposal for period 2008-2012 to be presented by the treasurer
5. Election procedure.
6. Website
7. Journal biological control
8. Miscellaneous
9. Election and inauguration of the new Executive Committee
10. New President introduces the new Council members and presents their plans for the coming 4 years.
11. Closing of the meeting and invitation for a snack and a drink

#### **5. INFORMATION ABOUT ACTIVITIES OF THE EXECUTIVE COMMITTEE 2004-2008**

##### **Current status and accomplishments of IOBC Global**

- IOBC is the only truly worldwide organization representing research in biological control in various global, regional and national organizations (e.g. IUBS, FAO, EC, ICE) for more than 50 years
- IOBC developed practically applied biological control and integrated pest management programs
- IOBC was the first to develop IPM guidelines for all major crops in Europe and has since continued to contribute to the development of principles of sustainable agriculture, e.g. guidelines on Integrated Production.
- IOBC initiated and co-developed Guidelines for the export, shipment, import and release of biological control agents and other beneficial organisms (International Standard for Phytosanitary Measures Number 3, 32 pages, 2005; Secretariat of the International Plant Protection Convention; available at [www.FAO.org](http://www.FAO.org))

- IOBC initiated and co-developed methods to test side effects of pesticides on natural enemies, which are now the official standard for testing side effects in the European Union pesticide registration procedure and published as the EPPO standard for Environmental Risk Assessment Scheme for Plant Protection Products, Chapter 9, PP 3/9, EPPO Bulletin 33, 99-131; available at [http://archives.eppo.org/EPPOStandards/PP3\\_ERA/pp3-09\(2\).pdf](http://archives.eppo.org/EPPOStandards/PP3_ERA/pp3-09(2).pdf).
- IOBC initiated and co-developed with the natural enemy producers guidelines for mass production and quality control of beneficial organisms (see: <http://www.amrqc.org>)
- IOBC co-developed with OECD a document on Guidance for Information Requirements for Regulation of Invertebrates as Biological Control Agents (IBCAs) (OECD Series on Pesticides Number 21, Environment Directorate; Organisation for Economic Co-Operation and Development, Paris 2003, 22 pages; Available at <http://www.oecd.org/dataoecd/6/20/28725175.pdf>)
- IOBC contributed information on biological control and biodiversity to the FAO report “Genetic resources of importance to agriculture” (to appear in 2007)
- Reviewed and made important contributions to paragraphs on sustainable agriculture and pest management in the UN-coordinated International Assessment of Agricultural Science and Technology for Development (to appear in 2008)
- Provided information to several organizations about natural enemies as quality indicators for biodiversity, and natural enemies as test organisms for side effects of pollutants and for pesticides as indicator of in and off field non-target effects

### Future activities of IOBC Global

IOBC is currently, among others, contributing to the following important developments:

- harmonization of quality control guidelines for natural enemies (together with the biocontrol industry; see e.g. van Lenteren, 2003)
- harmonization of guidance on import and release of new natural enemies (together with global, regional and national organizations; see e.g. Bigler et al., 2005; van Lenteren et al., 2006)
- harmonization of guidance on exploration natural enemies (together with several other global and regional organizations)

IOBC is also strongly involved in the organization of several symposia for the International Congress of Entomology in Durban in 2008. Programmes have been made and speakers have been invited for the following symposia:

- Critical analyses of successes and failures of biological control in Africa
- What are ecology's contributions to biological control and vice versa?
- Environmental benefits and risks of biological control
- Can boundaries between biocontrol and GMO's be overcome?

In 2008 a new Global working group has been formed on “**Benefits and risks associated with exotic biological control agents**”. The aims of this working group are, among others, (1) to assess the characteristics of exotic natural enemies which are considered to be successful biological control agents, and (2) to assess the characteristics of exotic natural enemies introduced into a country as biological control agents which subsequently become invasive alien species. IOBC WPRS has created a working group in the same area, which will initially concentrate on the invasion of *Harmonia* in Europe. More news about this working group will soon be available at the websites of IOBC Global and WPRS.

### What has been done so far during 2004-2008

When we started in August 2004, we realized that the very first priority was to spend quite some time on reorganizing internal affairs (finances, communication with working groups and regional sections, communication with members (website, newsletter). Next we worked on the following matters:

1. Celebrate 50<sup>th</sup> Anniversary of IOBC at several occasions worldwide: done extensively; including writing of book History IOBC.

2. Communicate wherever possible about important findings of biological and integrated control in the framework of sustainable production of sufficient and healthy food in a biodiverse world: done on many occasions.
3. Play an active role on national and international levels with regard to safety of biological control (quality control, safety of exotic natural enemies) and benefits of integration of biocontrol with other control methods: done on many occasions.
4. Work on revival of activities of several regional sections. Various sections of IOBC were very active in the past, but did not show activities in 2004 or the status of sections was unknown (e.g. EPRS (Central and East Europe), NTRS (Latin America)). Other areas of concern were ATRS (Africa) and part of APRS (Asia). EPRS and NTRS are very active now; APRS to some extent; ATRS not yet.
5. Develop incentives to make membership more attractive for all types of members. Active search for new IOBC members by IOBC Global and Regional Sections: done to some extent (new members EPRS, NTRS, APRS). The following incentives were developed to make membership more attractive: provision of writing partnership, Internet Book of Biological Control, frequent newsletter, and AGORA (see below).
6. Try to obtain free/strongly reduced subscription of electronic versions of Entomological and Biocontrol journals for members/institutes in developing countries via the AGORA network = Access to Global Online Research in Agriculture: done, can be applied for directly at FAO, no need to do this via IOBC (see text about AGORA below).
7. Improve information provided at website and in newsletter (only via website) by regular updates: done.
8. Publish, step by step, biocontrol successes for each IOBC region on the IOBC website: done to some extent in IOBC Internet Book of Biological Control, more to be done.
9. Produce book on 50 years of successes in biocontrol and new strategies for implementation of biocontrol and IPM: not done, only partly realized in book of History of IOBC and IOBC Internet Book of Biological Control

**Not planned, but done:**

1. Collaboration with European Plant Production Organization (EPPO) to update criteria for allowing natural enemies to be put on “positive list”, update positive list; future role: evaluate risks of import and releases of exotic natural enemies
2. Writing of IOBC history book
3. Production of IOBC Internet Book of Biological Control
4. Establishment of IOBC archive
5. Realized new contract with publisher of BioControl which is much more profitable for IOBC
6. Obtained much more money for WG activities
7. Created writing partnership (some 50 papers edited; Latin America, Africa, Asia, East Europe)
8. Provision of information about biological control on an almost daily basis via email
9. Contacts with IUBS about importance of conservation of biodiversity for future exploration of natural enemies
10. Contacts with FAO about same issue
11. And quite a bit more, like provision of information about biological control and IPM on a day to day basis via internet

## 6. IOBC SYMPOSIA AT ICE, JULY 2008, DURBAN SA

IOBC Global has organized 4 symposia at the International Congress of Entomology (6-12 July 2008, Durban, South Africa).

### Symposium 2.4. "Can boundaries between biocontrol and GMO's be overcome?"

Organizer: Joop C. van Lenteren, chairpersons Joop C. van Lenteren and Marcel Dicke

Introduction of topic by Joop C. van Lenteren / Marcel Dicke

1. Keynote address: Effects of insect resistant GMO crops on nontarget organisms. Louise Malone & Maureen O'Callaghan (New Zealand) (30 minutes)
2. GMO crops and biological control: what are the concerns and how to address them? Nick A. Birch (Scotland) (15 minutes)
3. Insect resistant transgenic crops, an opportunity for biological control? Franz Bigler (Switzerland) (15 minutes)
4. Using GM to enhance bodyguard attraction in crops. Marcel Dicke (The Netherlands) (15 minutes)
5. Field performance of transgenic crops: do they frustrate biological control? Gary Fitt (Australia) (15 minutes)
6. Commercial use of transgenic crops, their effect on biodiversity and natural enemies. Graham Head (USA) (15 minutes)

### Symposium 2.7. "Critical analyses of successes and failures of biological control in Africa".

Organizers and chairpersons: Joop C. van Lenteren and Martin Hill

Introduction of topic by Martin Hill / Joop C. van Lenteren

1. Keynote lecture: Critical analyses of successes and failures of biological control in Africa. P. Neuenschwander (IITA, Benin) (30 minutes)
2. Biological control of *Chromolaena odorata* in Africa: some progress made but much more is needed. Costas Zachariades (South Africa) (15 minutes)
3. Biological control of aquatic weeds, the Lake Victoria case. James Ogwang (NARO, Uganda) (15 minutes)
4. Do microbial control agents have a future in insect control in Africa? (Case: green muscle (*Metharhizium anisopliae*) and locust control). Christiaan Kooyman (various organisations) (15 minutes)
5. Biological control of the *Sirex* wood wasp in pine plantations of South Africa. Geoff Tribe (PPRS, South Africa) (15 minutes)
6. Biological control as component of IPM for cowpea - Manuele Tamo (IITA, Benin) (15 minutes)

**Symposium 16.1. “Environmental benefits and risks of biological control”.**

Organizers and chairpersons: Joop C. van Lenteren and Franz Bigler

Introduction of topic by Franz Bigler / Joop C. van Lenteren

1. Keynote address: How to value environmental risks and benefits. Libby Harrison (New Zealand) (30 minutes)
2. How to select a limited number of non-target species for host specificity testing? Peter Mason (Canada) (15 minutes)
3. Newest quick scan and comprehensive evaluation methods of environmental risks of exotic natural enemies. Joop van Lenteren (Netherlands) (15 minutes)
4. How did Holland handle the risk evaluation of 150 natural enemies in a few months time? Antoon J.M. Loomans (Netherlands) (15 minutes)
5. Postrelease evaluation of risks: the New Zealand experience. Barbara Barratt (New Zealand) (15 minutes)
6. Balancing benefits and risks of biological control. Franz Bigler (Switzerland) (15 minutes)

**Symposium 18.2. "What are ecology's contributions to biological control and vice versa?"**

Organizers and chairpersons: Joop C. van Lenteren and Jacques Brodeur

Introduction of symposium topic by Jacques Brodeur / Joop C. van Lenteren

1. Keynote lecture: Competitive exclusion principle and understanding of parasitoid success – Robert F. Luck (USA) (30 minutes)
2. Fine tuning of foraging behaviour to increase control impact of natural enemy - Louise E.M. Vet (Netherlands) (15 minutes)
3. Ecology of natural enemy-prey interactions: What can we learn for practical biocontrol? Nick Birch (UK). (15 minutes)
4. Intraguild predation and selection of best species for release. Jacques Brodeur (Canada) (15 minutes)
5. Chemical and behavioural ecology in insect parasitoids: how to behave optimally in a complex odourous environment? Torsten Meiners & Monika Hilker(Germany) (15 minutes)
6. How population dynamic models have contributed (or not) to biological control programmes. Charles Godfray (Great Britain) (15 minutes)

## 7. IOBC INTERNET BOOK ON BIOLOGICAL CONTROL

The **FIFTH EDITION** of the IOBC INTERNET BOOK OF BIOCONTROL IS OUT: see IOBC-Global.org



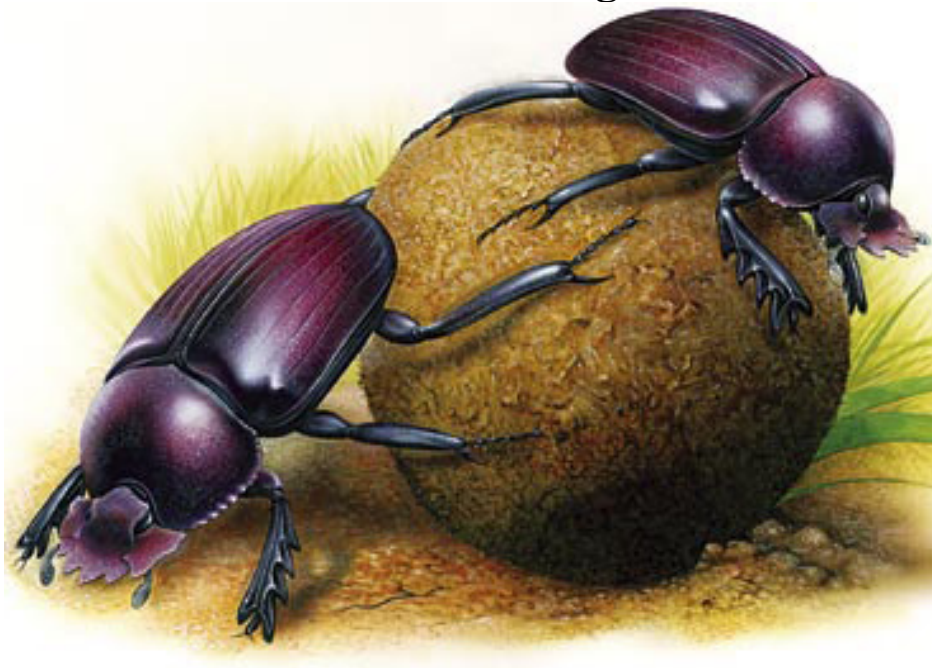
### IOBC Internet Book of Biological Control

**Aim: to present the history, the current state of affairs and the future of biological control in order to show that this control method is sound, safe and sustainable**

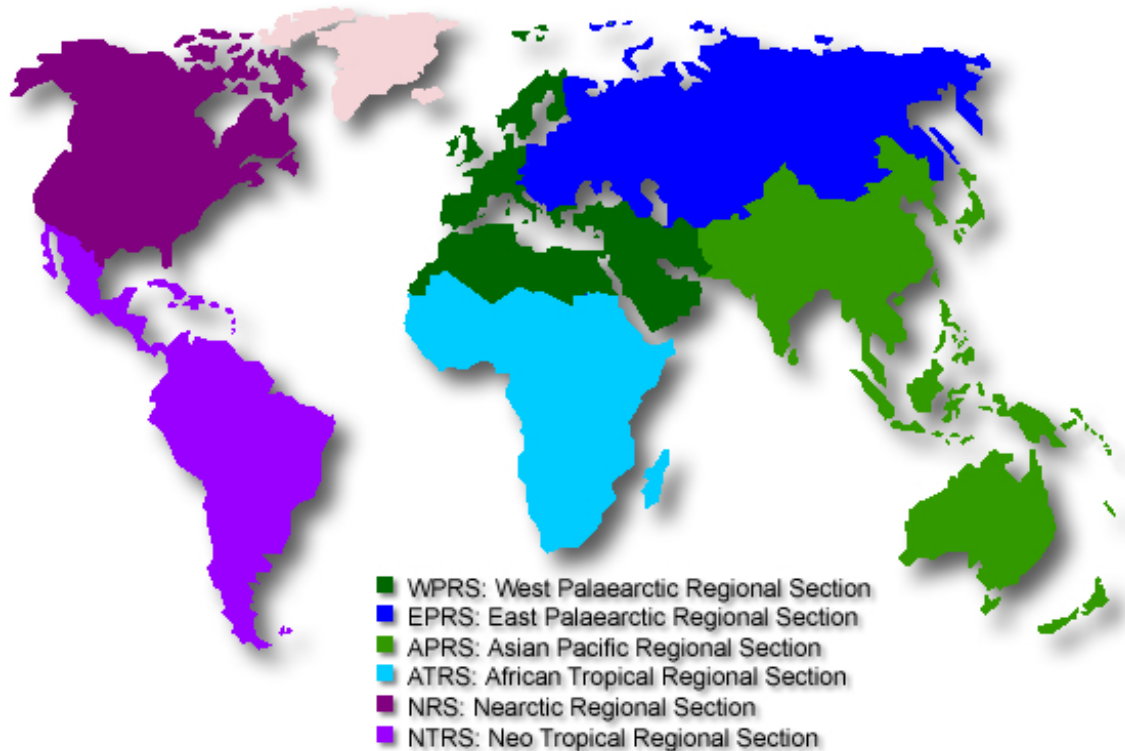
The fifth edition of the book contains more than 130 pages with information about biocontrol is available for free on our website.

We ask you to support the preparation of this book. The first priority is to receive summaries of the actual application of biological control in each country or region. The second priority is to document the history of biological control in each country, including some key references, so that it will be easier for all biocontrol workers worldwide to know what has been done and what is going on at this moment. This will help us to make clear **how important biological control is**. We have received several very good contributions during the past months, which will be included in the fourth edition, THANK YOU.

**We hope to see many of you at the General Assembly of IOBC  
which will be held during  
ICE 2008  
XXIII International Congress of Entomology  
6 - 12 July, 2008  
International Convention Centre, Durban  
[www.ice2008.org.za](http://www.ice2008.org.za)**



## 8. REGIONAL SECTIONS OF IOBC



Short information of all the Regional Sections, with a link to their websites, can be found on [www.IOBC-Global.org](http://www.IOBC-Global.org).

### ASIA AND THE PACIFIC REGIONAL SECTION (APRS)



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**Past President:** Prof.dr. Eizi Yano,

### AFROTROPICAL REGIONAL SECTION (ATRS)



**President:** Dr. James A. Ogwang, Biological Control Unit, Namulonge Agricultural Research Institute, Kampala, Uganda. Email: [jamesogwang@hotmail.com](mailto:jamesogwang@hotmail.com)

**Past President:** Dr. H.G. Zimmermann, Agricultural Research Council, Plant Protection Research Centre, Weeds Research Division, Pretoria, South Africa. Email: [riethgz@plant2.agric.za](mailto:riethgz@plant2.agric.za)

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IOBC Global and IOBC ATRS are organizing a symposium at the next Congress of Entomology in Durban about biocontrol in Africa.

### EAST PALEARCTIC REGIONAL SECTION (EPRS)

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Dr. Vladimir Nadykta (Institute of Biocontrol, Krasnodar, Russia)

**General Secretariat:** Dr. Yury Gninenko and Dr. E. Sadomov, Russia



### NEARCTIC REGIONAL SECTION (NRS)

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### NEOTROPICAL REGIONAL SECTION (NTRS)

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**Secretary General:** Dr. William Cabrera, South American Biological Control

Laboratory, Agricultural Counselor American Research Service Laboratory,

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**Vice President 2:** Dr. Mary M. Whu Paredes, Enrique León García N° 527. Urb. Chama-Surco.

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**President Elect:** Prof.dr. F. Consoli, Department of Entomology, Fitopatologia e Zoologia Agrícola, ESALQ, Universidade de São Paulo, Av. Pádua Dias 11, Piracicaba, SP 13418-900, Brazil. Email: fconsoli@esalq.usp.br

**Past President:** Dr. Raquel Alatorre, Mexico. Email: alatoros@colpos.mx

### WEST PALEARCTIC REGIONAL SECTION (WPRS)

**President:** Dr. F. Bigler, Switzerland, email: franz.bigler@fal.admin.ch

**Vice Presidents:** Prof.dr. Sylvia Blümel (Austria), Dr. Heidrun Vogt (Germany), Prof. Dr. L Tirry, University of Gent, Laboratory of Agrozoology, Department of Crop Protection, Gent, Belgium. Email: luc.tirry@ugent.be

**Secretary General:** Dr. Philippe Nicot(INRA, Avignon)

**Treasurer:** Prof. Dr. R. Albajes, Universita de Lleida, Centre UdL-IRTA, Lleida, Spain. Email: ramon.albajes@irta.es



This Section of IOBC has always been one of the most active and has an excellent website with all information on working groups, meetings and bulletins: [www.iobc-wprs.org](http://www.iobc-wprs.org). This website also has PDF files of the WPRS newsletter **PROFILE**, providing all recent information about IOBC WPRS.

## 8. WORKING GROUPS OF IOBC GLOBAL

Information provided below about working groups is limited, most information is regularly updated on our website and the websites of the working groups.

### WG ARTHROPOD MASS-REARING AND QUALITY CONTROL

**Convenors:** **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: +33 (0)4 72 43 79 88. Fax: +33 (0)4 72 43 85 34. Email: sgrenier@jouy.inra.fr. **Dr. N.C. Leppla**, University of Florida, Institute of Food and Agricultural Sciences, Department of Entomology and Nematology, Gainesville, Florida, USA. Email: ncl@gnv.ifas.ufl.edu. **Dr. P. De Clercq**, Laboratory of Agrozoology, Department of Crop Protection, Faculty of Bioscience Engineering, Gent University, Belgium. Email: Patrick.DeClercq@ugent.be

See website for future activities: <http://users.ugent.be/~padclerc/AMRQC/contacts.htm>.

### WG BIOLOGICAL CONTROL OF APHIDS / ECOLOGY OF APHIDOPHAGA

**Convenors:** **Dr. N. G. Kavallieratos** (Greece) G. Laboratory of Agricultural Entomology, Department of Entomology and Agricultural Zoology, Benaki Phytopathological Institute, 8 Stefanou Delta, 14561, Kifissia, Attica, Greece; Email: nick\_kaval@hotmail.com, **Eric Lucas** (Canada), **J.P. Michaud** (USA) jpmi@ksu.edu.

See website for future activities: [www.aphidophaga10.gr](http://www.aphidophaga10.gr)

### WG BIOLOGICAL CONTROL OF CHROMOLAENA ODORATA (SIAM WEED)

**New Conveor:** Dr. Costas Zachariades, ARC-PPRI, Private Bag X6006, Hilton, 3245 South Africa; Tel 033-3559418, cell 0833152100, fax 033-3559423; ZachariadesC@arc.agric.za

See website for future activities/newsletter: <http://www.ehs.cdu.edu.au/chromolaena/siamhome.html>

**WG BIOLOGICAL CONTROL OF PLUTELLA**

**Convenors:** **Dr. A.M. Shelton**, Department of Entomology, Cornell University, New York State Agricultural Experimenta Station, 416 Barton Lab Geneva, NY 14456, USA. Tel: +1-315-787-2352. Fax: +1-315-787-2326. Email: ams5@cornell.edu. **Dr. A. Sivapragasam**, Strategic, Environment and Natural Resources Centre, MARDI, Kuala Lumpur, Malaysia. Email: sivasam@mardi.my. **Dr. D.J. Wright**, Department of Biology, Imperial College at Silwood Park, Ascot, Berkshire, UK. Email: d.wright@ic.ac.uk

See website for future activities: <http://www.nysaes.cornell.edu/ent/dbm/>

**WG BIOLOGICAL CONTROL OF WATER HYACINTH**

**Chairman: Dr Martin Hill**, Department of Zoology and Entomology, Rhodes University, P.O. Box 94, Grahamstown, 6140, South Africa. m.p.hill@ru.ac.za

**WG EGG PARASITIDS**

**Convenors:** **Dr. E. Wajnberg**, Ecologie Comportementale, I.N.R.A., Sophia Antipolis, France. Email: wajnberg@antibes.inra.fr. **Dr Guy Boivin**, Research Station, Agriculture Canada, St-Jean-sur-Richelieu, Québec, Canada. Email: boiving@agr.gc.ca

The next meeting of this working group is planned during the International Congress of Entomology in Durban, South Africa (2008).

**WG FRUIT FLIES 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. Email: bam10@psu.edu

**WG IWGO – OSTRINIA AND OTHER MAIZE PESTS (BY H. BERGER)**

**Convenors:** **Ulrich Kuhlmann**; CABI-BioScience; Head Agricultural Pest Research CABI Bioscience Switzerland Centre, Delémont; Switzerland, Email: u.kuhlmann@cabi.org. **C. Richard Edwards**; Purdue University; Dep. of Entomology; Indiana; USA; Email: richedwards@entm.purdue.edu. **Harald K. Berger**; AGES, Spargelfeldstraße 191; 1226 Wien; Austria; Tel.: # 43 /664/56-42-885. Fax: # 43/1/732-16-2106. Email: harald.berger@ages.at.

All relevant data, reports and future meetings are published on the IWGO website:  
<http://www.iwgo.org>

**GLOBAL WG ON TRANSGENIC ORGANISMS IN IPM AND BIOCONTROL**

**Convenors:** **Dr. Angelika Hilbeck**, Swiss Fed. Inst. of Technology, Geobotanical Institute, Zurichbergstr. 38, CH-8044, Zurich. Tel: +41 (0) 1 632 4322. Fax: +41 (0) 1 632 1215. Email: angelika.hilbeck@env.ethz.ch. **Dr. Salvatore Arpaia**, Italy. Email: arpaia@trisaia.enea.it. **Dr. Nick Birch**, UK. Email: n.birch@scri.sari.ac.uk. **Dr Gabor Lovei**, Denmark. Email: gabor.lovei@agrsci.dk;

**Editors: Joop C. van Lenteren and Stefano Colazza, IOBC Global, 10 March 2008**

See next page for Election Form

**Election form for Executive Committee 2008 – 2012 of IOBC Global**

*This form should be received by the Secretary General BEFORE 31 MAY 2008*

Candidates:

President: Prof.dr. Jacques Brodeur (Canada)  
 Vice-President: Dr. Barbara I.P. Barratt (New Zealand)  
 Vice-President: Prof.dr. Jose Roberto P. Parra (Brazil)  
 Secretary General: Prof.dr. Joop van Lenteren (The Netherlands)  
 Treasurer: Dr. Alberto Urbaneja (Spain)



Name:

Address:

Email:

I am an individual member of the following IOBC Region:

I represent the following institutional member of IOBC:

I have paid my membership fees for the year 2008: Yes          No

I agree with the list of candidates for the Executive Committee: Yes          No

Signature

Date:

Place:

**Send this election form by regular post or by email before 31 May 2008 to the Secretary General of IOBC Global. If sent by email, it should be in the form of a signed PDF file.**

Mail address Secretary General:

Prof. dr. S. Colazza

S.En.Fi.Mi.Zo. Department - Section of Entomology, Acarology and Zoology, University of Palermo  
 Viale delle Scienze, 13 90128 Palermo, Italy

Email address Secretary General: [colazza@unipa.it](mailto:colazza@unipa.it)