



IOBC Global

*International Organization
for Biological Control*



IOBC Newsletter Issue 92, December 2012

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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Message from the President:

This is my first editorial as President of IOBC, and I would like to say that it is a huge honor to take on this position. I hope, with the new Executive Committee, that we can guide IOBC-Global through the next four years and continue to function as effectively and successfully as it has in the past in representing and promoting biological control internationally through our Regional Sections and Working Groups. I would like to pay tribute to our previous President, Jacques Brodeur. In his last editorial, Jacques was very generous in his thanks and praise for the out-going Executive Committee, but we need to recognize the outstanding job that Jacques did at a very busy time for IOBC. One of the most challenging projects undertaken over the last four years was the establishment of the 'Commission on Access and Benefit Sharing and Biological Control'. Our continued freedom to operate in biological control, using the networks and partnerships among countries that we have so successfully employed over previous decades, is at risk from this bureaucratic protocol. We were in danger of being lumped in with pharmaceutical industries, and required to negotiate 'prior informed consent' and 'mutually agreed terms' in order to explore for biological control agents and export



Continued on next page...

Message from the President (continued):

them to another country. While this is appropriate for large, profit-making industries, it is certainly not for biocontrol. Although it is by no means finished, our Commission, funded by the UN-FAO, has successfully raised the issue of biological control at international meetings of member countries. Jacques led the Commission, and was instrumental in coordinating reports on this issue, and in putting our case across to negotiators of the ABS protocol, now known as the Nagoya Protocol. We see some evidence that our voice is starting to be heard. Jacques has always led in a calm, quiet and thoughtful way, and we owe him a great deal for his hard work. We are fortunate that he remains on the Executive Committee for another four years as our Past President.

We will continue to respond to issues relating to biological control as they arise, and we do have some new plans and aspirations for IOBC Global. We would very much like to support regional sections that are inactive, or that need to grow. Hopefully, along with the sections that are working well, we'll be able to provide advice and support. We have a number of Working Groups that are very active and effective, and again it would be nice to see new groups forming. The new directive in Europe making IPM compulsory as of January 2014 will provide us with an opportunity to become more engaged with growers, researchers and regulators as this directive comes into force. Finally, we plan to give the website a bit of a face-lift, which we hope will help present IOBC as an appealing image to younger members, while retaining an air of professionalism. So if anyone would like to offer his or her services, we would love to hear from you.

Finally, the International Symposium on Biological Control of Arthropods to be held in March in Pucón, Chile (see page 9) is fast approaching. The program is looking very attractive, and I hope to see you there!

Barbara Barratt, President, IOBC Global

Organization for Economic Co-operation and Development (OECD): Pesticide Risk Reduction Steering Group Seminar. Queenstown, New Zealand, November 2012.

This seminar was the 13th in a series on pesticide risk reduction, organized as a follow-up to the workshop on IPM in October 2011 in Berlin. The seminar focused on measurement and impact of IPM adoption and implementation, and it was acknowledged that there is a gap in this area that needs to be filled. Franz Bigler (President of IOBC- WPRS) and other members of WPSR have been very active in Europe providing scientific advice and support to EU Directorates (Agriculture, Environment and Health), and he suggested to the OECD Secretariat that IOBC Global could make a contribution at the Queenstown meeting.

So, with assistance from Franz and Carlo Malavolta (Conveners, IOBC-WPRS Integrated Production Commission), Barbara Barratt gave a talk largely focused on a grower performance evaluation system developed by the Commission and described in the book 'Integrated Pest Management: Design and Application of Feasible and Effective Strategies' produced by IOBC-WPRS (see page 7 of this newsletter).





Three IOBC Symposia were held at ICE 2012:

1. International exchange and risk assessment of biological control agents. Convener: Joop van Lenteren
2. Genetics & Genomics of Insects Used in Biological Control & Their Relatives. Conveners: L. Beukeboom & J. Werren
3. Biological control: benefit sharing and the balance between benefits and risks. Conveners: J. Brodeur, B. Barratt, P. Mason, G. Heimpel and H. Roy

NOTE: Complete Powerpoint presentations from seminar #3 are available on the IOBC website: <http://www.iobc-global.org/news.html>



Update from the General Assembly and Executive Committee and Council meetings held at the International Congress of Entomology at Daegu, South Korea



- A new Executive Committee was convened for 2012-2016: President: Barbara Barratt; Vice-Presidents: Joop van Lenteren & Jianqing Ding; Secretary General: Russell Messing; Treasurer: Josep Jacas Miret; Past-President: Jacques Brodeur. Appreciation was extended to the previous Executive Committee.
- A keynote presentation was presented by Dr. Willem Takken, Wageningen University and Research Centre, The Netherlands: "Can biological control help to eliminate malaria: A case study from Rusinga Island, western Kenya."
- Our formal name *International Organization for Biological Control of Noxious Plants and Animals* was changed to *International Organization for Biological Control* for simplicity, and to acknowledge workers in biocontrol of pathogens.
- The Committee acknowledged Joop van Lenteren's dedication in editing >100 scientific papers for non-native English speakers in recent years. We are asking for new volunteers to pitch in and help continue the Writing Partnership (contact messing@hawaii.edu)
- The finances of IOBC Global were reported to be in good shape. The changeover to the new treasurer occurs at the end of 2012.
- Three IOBC Working Groups are retiring after years of productive achievement: Biocontrol of *Plutella xylostella*; Egg Parasitoids; and Transgenic Organisms in IPM and Biocontrol. Thanks to the conveners (A. Shelton, A. Sivapragasam, D. Wright, G. Boivin, E. Wajnberg, F. Côté, A. Hilbeck, S. Arpaia, N. Birch & G. Lövei) for their hard work.
- The next Executive Committee meeting is scheduled to take place at the 4th International Symposium on Biological Control of Arthropods March 4-8, 2013 in Pucón, Chile.





Message from the Editor:

BioControl, over the years, has established a leading role in publishing the finest and most exciting work in all aspects of biological control of invertebrate, vertebrate and weed pests, and plant diseases. Coverage includes the biology and ecology of organisms for biological control, and aspects of their use for integrated pest management (IPM), such as plant resistance, pheromones and intercropping. Besides original research articles, **BioControl** also publishes Forum articles, Review papers and Letters to the Editor.

In scientific publishing there is intense competition among journals, and there has always been strong pressure to improve the quality and audience of **BioControl**, without forgetting that it should remain an exceptional media for scientists (and especially IOBC members) from all over the world to publish their original results on biological control. The editorial board of the journal is working hard to improve the quality and audience of the journal. **BioControl** success reflects a collective commitment in which authors send us their finest and most exciting research in the field of biological control, and both Associate Editors and reviewers provide rapid and thorough evaluation. We are hoping that the success will continue over the years and that the ISI Journal Citation Index will increase. For this, I invite all scientists working on biological control to submit us their most innovative, stimulating and top-level manuscripts.

Eric Wajnberg
Editor-in-Chief of **BioControl**



2011 Impact Factor – 1.927

Some recent articles:

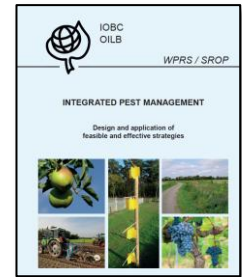
- 1 **Conservation biological control using fungal entomopathogens**
J. K. Pell *et al.*
- 2 **Ecological genetics of invasive alien species**
Lawson-Handley, *et al.*
- 3 **Risks of biological control for conservation purposes**
Daniel Simberloff



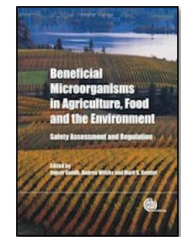
<http://link.springer.com/journal/10526>



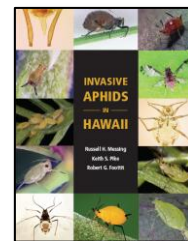
Integrated Pest Management – Design and Application of Feasible and Effective Strategies. F.G. Wijnands, R. Baur, C. Malavolta, & B. Gerowitt, *eds.* June 2012. Produced by IOBC-WPRS for a symposium in Brussels organized with IBMA (International Biocontrol Manufacturers' Association) and PAN Europe (Pesticide Action Network Europe). Available as hard copy for €25, including shipping (annette.herz@jki.bund.de); or for IOBC-WPRS members from: <http://www.iobc-wprs.org/pub/index.html> (access with password only).



Beneficial Microorganisms in Agriculture, Food and the Environment. Safety Assessment & Regulation. Edited by: I. Sundh, A. Wilcks & M. S. Goettel November 2012 / 360 pages / Hardback £95/US\$180/€125 direct.orders@marston.co.uk



Invasive Aphids in Hawaii. R.H. Messing, K.S. Pike & R.G. Foottit Over 100 species of invasive aphids illustrated with color photos and slide mounts. Most are also invasive in Asia, the Pacific, and other regions; many are targets of biocontrol programs. November 2012. 266 pages, full color / spiral bound. US \$20. plus shipping. Order: OCS@ctahr.hawaii.edu



The journal **Evolutionary Applications** published a special issue devoted to **Evolution and Biological Control** (July 2012, Volume 5, Issue 5). Papers in the volume include many contributions from IOBC members that address fundamental questions regarding the role of evolution in biocontrol. <http://onlinelibrary.wiley.com/doi/10.1111/eva.2012.5.issue-5/issuetoc>



Plantwise, the global initiative to improve food security and rural livelihoods by reducing crop losses, has a recent newsletter available online at: <http://cabi-mail.org/VZZ-139H6-4DWR1K-FBD5Y-1/c.aspx>

The **IOBC-WPRS Regional Section Working Group “Pesticides and Beneficial Organisms”** has an extensive update of their database on pesticide/natural enemy interactions available online (for WPRS members, password required): http://www.iobc-wprs.org/restricted_member/toolbox.cfm

IOBC Internet Book of Biological Control, Version 6, February 2012

Editor: J.C. van Lenteren. Can be downloaded from:

http://www.iobc-global.org/publications_iobc_internet_book_of_biological_control.html

New honorary members of IOBC in 2012:

Dr. Franz Bigler, Switzerland

is Head of the Research Unit on Biosafety at Agroscope Reckenholz Research Station in Zürich, Switzerland. Agroscope is the umbrella of the Swiss Ministry of Agriculture Research Institutes. Franz served the Global IOBC as convenor of the WG “Quality Control of Mass-Reared Insects” (1989-1992). From 1993- 1996 he was Secretary-General of IOBC Global. From 2003- 2005 he chaired the new IOBC/WPRS Commission on “Harmonized regulation of Invertebrate Biological Control Agents.” Since 2005 he’s been President of IOBC/WPRS, and a Council member of IOBC Global.



Prof. dr. Vanda Bueno, Brazil

teaches courses in Applied Entomology, Biological Control of Pests with Entomphagous Agents, and Biological Control of Pests in Protected Cultivation for undergraduate and graduate students, and supervises BSc, MSc and PhD students. She was Chairwoman of the Department of Entomology at the Federal University of Lavras from 2000-2004, and has been a member of the Technical Scientific Council of the Brazilian Association of Biological Control Producers (ABCBio) since 2009. She was treasurer of IOBC-NTRS from 1994-1998, and later played a crucial role in revival of this Regional Section as President (2006-2010). Currently, she is very active in NTRS as Past President.

Dr. Matthew Cock, United Kingdom

is known by his colleagues for his outstanding contributions to biological control and IPM on an international level. He has participated in IOBC and European initiatives to define the information needs for biocontrol, and assessment of environmental risks. His recent excellent work as a member of the IOBC Global Commission on Biological Control and Access & Benefit Sharing influenced the Nagoya Protocol.



Dr. Dave Gillespie, Canada

is currently adjunct Professor in the Department of Biological Sciences at Simon Fraser University. His research on natural enemies of insects and mites has contributed directly to the widespread use of many species for biocontrol in commercial greenhouse operations around the world. He served on supervisory committees for numerous MPM and M.Sc. students, as a subject editor for Bulletin of Entomological Research, and as chair of the organizing committee for the joint meeting of West Palearctic and Nearctic greenhouse IPM working groups in 2002.

Prof. dr. Heikki Hokkanen, Finland

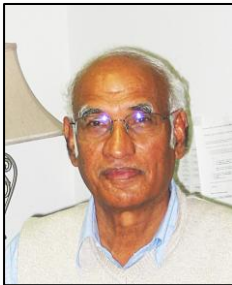
is a long term member of IOBC-WPRS and actively promoted international collaboration via its working groups on insect pathogens/insect parasitic nematodes; integrated control in oilseed rape; pesticides and beneficial organisms; and transgenic crops in IPM systems. He contributed greatly to IOBC by successfully rejuvenating our journal “Entomophaga” under its new name “Journal of BioControl” in 1997. He changed the journal into a modern, well cited, regularly produced and respected periodical, and functioned as Editor-in-Chief for a period of 10 years.



New honorary members of IOBC in 2012:

Dr. Rachel McFadyen, Australia

has worked in Trinidad for the (British) Commonwealth Institute of Biological Control; in Argentina testing insects to control *Harrisia* cactus for Queensland; and in 1976 joined the weed biocontrol team at the Alan Fletcher Research Station, Brisbane. She served as President of the South and East Asian Regional Section of IOBC (now APRS), and in 2003 became Director of the Cooperative Research Centre for Australian Weed Management. She is currently Vice President of the Queensland Weed Society.



Dr. Rangaswamy Muniappan, United States of America

was a researcher in the College of Agriculture at the University of Guam, and Associate Director of its Agricultural Experiment Station. During 35 years he has successfully worked with officials from local, federal, national and international agencies. He is currently responsible for management of the IPM- Collaborative Research and Support Program at Virginia Tech University (USA), coordinating with US-AID and institutions in the U.S., as well as developing countries in Asia, Africa, Eastern Europe, the Caribbean and Latin America.

Dr. Les Shipp, Canada

is Adjunct Professor at the Dept. of Biology (University of Windsor), Adjunct Professor at the School of Environmental Science (University of Guelph), and Professeur Associé at the Département de Science biologiques (Université of Montréal). His research with greenhouse pests involved the development of IPM programs for insects and mites, with emphasis on non-chemical control. He convened the IOBC/NRS Working Group "Greenhouse, Nursery and Ornamental Landscape IPM," and played an important role as coordinator in several meetings organized by IOBC/ WPRS, NRS, and NTRS.



Drs. Catherine and Maurice Tauber, United States of America

worked for many years in the Department of Entomology at Cornell University, and are currently in active retirement at the University of California Davis, where they are Visiting Professors. They have published more than 200 papers in major journals, and have strengthened classical, conservation and augmentative biological control programs worldwide.

Prof. Dr. J. K. Waage, United States of America

Was CEO of CABI Bioscience, where he extended its traditional international biological control activities into the areas of integrated pest management, biological pesticides and invasive species management. He served as founding member of the Global IPM Facility of FAO, UNDP and World Bank; President of the International Organization of Biological Control; and Chair of the Global Invasive Species Program of the Global Environment Facility.



Emerging Opportunities for Mass Production & Quality Assurance of Invertebrates. 13th Workshop of the IOBC – MRQA: Bangalore, INDIA

Joint meeting [November 6-8, 2013] of the IOBC Global Working Group on Mass Rearing & Quality Assurance (MRQA), International Biocontrol Manufacturers Association (IBMA), Invertebrate Biocontrol Agents Group, Indian Council of Agricultural Research (ICAR) and Society for Biocontrol Advancement (SBA) India. Venue: Mövenpick Hotel & Spa in Bangalore.



Information on the program, registration and accommodation will be available on the MRQA (www.AMRQC.org), NBAII (www.nbaii.com) and ICAR (www.ICAR.org.in) websites. For queries regarding sponsoring or display space: iobcmrqa13thworkshop@gmail.com

Third International Entomophagous Insects Conference, Quebec, CANADA

This conference will be held in Orford, Québec, Canada, from 3-6 June 2013 at the Hotel Chéribourg, a resort nestled at the bottom of majestic Mount Orford in the scenic Eastern Townships, 125 km east of Montreal. Guy Boivin and Jacques Brodeur are co-organizers.



For details, see: <http://seq.qc.ca/IEIC3>
or contact: entomophagous2013@gmail.com

Aphidiphaga 12 - Belgrade, SERBIA

The 12th International Symposium on “Ecology of Aphidophaga” will be held in Belgrade, Serbia from 9-13 September, 2013. This is the first time that Ecology of Aphidophaga will be held in Serbia. The purpose of the meeting is to provide an international forum for the presentation and discussion of research on organisms contributing to the mortality of aphids. For full details, and to download the first circular, visit: <http://aphidophaga12.bio.bg.ac.rs/>



2nd International Symposium on Molecular Detection of Trophic Interactions: May 13–17, 2013, Lexington, Kentucky, USA

The conference will focus on all aspects of trophic interactions in terrestrial, freshwater and marine ecosystems and build on information presented at the first international symposium, held in Innsbruck, Austria in 2007. Oral and poster presentations are accepted and student/postdoc presentations are particularly welcome. For full details see: <http://www.ca.uky.edu/mti2/> contact: James Harwood, Dept. of Entomology, University of Kentucky, Lexington, KY 40546, U.S.A. Tel. +1 859 257 4264
James.Harwood@UKy.edu



For more information on upcoming meetings, see: <http://www.iobc-wprs.org/events/index.html>
and <http://www.iobcnrs.com/index.php/events-calendar>



4th International Symposium
on Biological Control of
Arthropods

ISBCA

Pucón, Chile

March 4-8, 2013

The International Scientific and Organizing Committee invites you to attend...

The conference continues the series of international symposia on biological control of arthropods held every four years. The first meeting was in Hawaii, USA in 2002, then Davos, Switzerland, and Christchurch, New Zealand. The goal is to create a forum where biological control researchers and practitioners can meet and exchange information, promote discussions of current issues affecting biological control, particularly pertaining to the use of parasitoids and predators as biological control agents. This includes all approaches to biological control: conservation, augmentation, and importation of natural enemy species for the control of arthropod targets, as well as related issues.

Pucón is in the Araucanía Region on the shore of the Villarica Lake, with views of the cone-shaped Villarrica volcano. It's a small town but a major center of adventure tourism in Chile, due to its natural surroundings, near a volcano and several lakes, natural reserves and hot springs.

For full details: <http://www.isbca.org/>



Meeting venue:
Gran Hotel Pucón

Organizing Committee Chair:
Tania Zaviezo

Symposium Secretariat:
isbca2013@isbca.org

West Palearctic Regional Section (WPRS) www.iobc-wprs.org

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 Past President Prof. dr. Masami Takagi, Japan: past.president@aprs.iobc.info

Neo-tropical Regional Section (NTRS)

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East Palearctic Regional Section (EPRS)

President Prof. Dr. Danuta Sosnowska, Poland: Danuta.Sosnowska@ior.poznan.pl
 Vice President Prof. V. Dolzenko, St. Petersburg, Russia.
 Vice President Prof. M. Glavendekic, University of Belgrade, Serbia.
 General Secretary Dr. Y. Gninenko, Russia.

Afro-tropical Regional Section (ATRS)

IOBC Global is seeking individuals with biological control expertise to represent the Afro-tropical Regional Section.

If you would like to serve, please contact:

Dr. Barbara Barratt [barbara.barratt@agresearch.co.nz] or
 Dr. Russell Messing [messing@hawaii.edu]



Arthropod Mass Rearing and Quality Control

Contacts: Dr. P. De Clercq, BELGIUM: Patrick.DeClercq@ugent.be
 Dr. T. Coudron, USA: coudront@missouri.edu
www.amrqc.org



Ecology of Aphidophaga

Contacts: J. P. Michaud, USA (chair): jpmi@ksu.edu, Kris Giles (USA),
 Nick Kavallieratos, GREECE; Carlo Ricci, ITALY; Wolfgang Weisser, GERMANY
www.aphidophaga.org



Biological Control of *Chromolaena odorata* (Siam Weed)

Contact: Dr. Costas Zachariades, SOUTH AFRICA: ntczs@natal1.agric.za
www.ehs.edu.edu.au/chromolaena/siamhome.html



Biological Control of Water Hyacinth

Contact: Dr. Martin Hill, SOUTH AFRICA: m.p.hill@ru.ac.za
www.invasive.org/eastern/biocontrol/4WaterHyacinth.html



Benefits and Risks Associated with Exotic Biological Control Agents

Contacts: Dr. Peter Mason, CANADA: masonp@agr.gc.ca
 Dr. George Heimpel, USA



Biocontrol of *Ostrinia* and Other Maize Pests

Contacts: Dr. Ulli Kuhlmann, SWITZERLAND: u.kuhlmann@cabi.org; Prof. Dr. C.
 Richard Edwards, USA: edwards@purdue.edu; Dr. Wang Zhenying, China:
 zywang@ippcaas.cn. www.iwgo.org



Biological Control and Management of Parthenium Weed

Contacts: Kunjithapatham Dhileepan, AUSTRALIA:
 Kunjithapatham.Dhileepan@deedi.qld.gov.au
 Wondi Mersie, USA: wmersie@vsu.edu;
 Rangaswamy Muniappan, USA: ipm-dir@vt.edu or rmuni@vt.edu



Commission on Biological Control and Access and Benefit Sharing

Contact: Prof. dr. Jacques Brodeur, CANADA: jacques.brodeur@umontreal.ca
www.iobc-global.org/download/659ABSinBiCoAddMat2009.pdf



Join an IOBC International Working Group.... or propose a new one!

Join IOBC...

Membership in IOBC is open to all individuals and all organizations, public or private, who desire to promote the objectives of biological control. There are four categories of membership:

- Individual Membership is open to all individuals engaged or interested in biological control.
- Institutional Membership is open to any institution, including government departments, academies of science, universities, institutes and societies participating in biocontrol activities.
- Supporting Membership is open to any person or institution interested in promoting the objectives of the Organization.
- Honorary Membership may be conferred by the Council to anyone who has made outstanding contributions to biological control.

For more information and application forms:
www.iobc-global.org/member.html



International Organization for Biological Control

Issue 92, December 2012

Send contributions for
the IOBC Global newsletter
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IOBC-Global Executive Committee:

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Secretary General:	Dr. Russell Messing, USA messing@hawaii.edu
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Past president:	Prof. dr. Jacques Brodeur, CANADA jacques.brodeur@umontreal.ca

Full contact details: <http://www.iobc-global.org/contacts.html>