EDITORIAL

IOBC: its role in policy development

All IOBC Regional Sections have Working Groups whose principal function is to facilitate collaboration between scientists in different countries, thereby improving the efficiency of everyone’s research and the speed of scientific progress. But Working Groups have another important potential function, that of policy development and promotion.

Around the world today, a variety of international and regional institutions are seeking impartial, authoritative, scientific advice on policy relating to pest management. Many are developing guidelines or protocols for governments in such areas as integrated pest management, pesticide use, biotechnology and biological control. They include institutions of the UN system such as FAO, the European Union, the Organization for Economic Cooperation and Development (OECD), the World Bank and other international lending banks, non-governmental organizations and regional plant protection organizations.

For these organizations, the independence and professionalism of IOBC is attractive, as is its capacity to provide a "one-stop shop" for regional or global advice on biological control. A recent example of this policy support role is the adoption by the EU of guidelines developed by the IOBC/WPRS Working Group on Pesticides and Beneficiaries, which will now require that pesticides registered in EU countries be tested on selected natural enemies.

IOBC’s influence on pest management policy need not be confined to the public sector. IOBC’s Commission on Integrated Production has been working since 1991 to develop principles for integrated production (IP) in European crops which gives preference to ecologically safe methods and minimizes the undesirable side effects and use of agrochemicals. This has led to crop-specific guidelines for pome fruits, stone fruits, viticulture and arable crops. These guidelines, developed by specific...
Working Groups, have now attracted considerable interest from growers, both within and outside WPIS countries, who wish to use IOBC IP Guidelines as cost-effective standards for their production. In this issue, we report the establishment of a new Working Group initiative to develop similar IP guidelines for bananas production in IOBC/WRIS.

These examples illustrate some of the opportunities which IOBC Sections, Commissions, and Working Groups have to help guide the future development of biological control and biocontrol products in the public and private sector. Other opportunities may exist in such areas as quality control for biological control products (where IOBC Working Groups are already active), in the use of transgenic crops for pest control and in the sharing and movement of biological control agents between countries. Please let us know if you need information for your Sections on the initiatives above, or if you would like to initiate new areas of IOBC activity towards policy development and promotion in biological control.

J.K. Wease, President IOBC Global

Biocontrol

Since the last Newsletter has been distributed, a contract has been negotiated and signed with the publisher Kluwer (NL). This contract, at least for a period of 10 years, covers the publication of the new official journal of our organization, BioControl. This new journal replaces Entomophaga. The first issue (i.e., issue 1 of Volume 43) should appear in spring 1998. Besides the main title, the cover of the journal will also carry the subtitle: "Journal of the International Organization of Biological Control". For the first year, the cover will also carry the notation "Formerly Entomophaga". Under the contract, Kluwer will provide all of the technical support needed to handle manuscripts (from the reviewing up to the printing and distributing process). The process will be far more effective and ultimately cost-effective than what we have had for Entomophaga with the French publisher Lavoisier.

In the meantime, Entomophaga will continue and finish its publication up to the end of the last Volume 42 (1997). The first issues (i.e., issues number 1 to 3) have already been sent out last summer and during Christmas, respectively. All subscribers should have received them. The last issue (44) is now at the proof-reading step. It should thus be distributed soon (likely around March 1998).

As stated in the previous Newsletter, an Editor-in-chief has been chosen. Dr. H. Holkanen, Professor, Department of Applied Zoology, University of Helsinki, Finland. Dr. H. Holkanen is currently the Head of the Co-operative Research Programme on Biological Resource Management at OECO Directorate for Agriculture (Paris, France). He will be assisted by eight Associate Editors, each responsible for a subject matter specialty, as follows:

- Parasitoids: Prof. J. Brodeur, Université Laval, Québec, Canada.
  Tel: 00-1-418-656-21-31 ext. 251b
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- Predators: Dr. K.D. Sunderland, Horticulture Research International, Wellesbourne, UK.
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A new logo for our organization

Thanks to the work done by the Promotions and Exension Commission of the Iotic Global, our Organization has now a new logo. This logo can be used on all printed material and electronic media. This will permit a streamlined image of Iotic Global and each of the Regional Sections and facilitate clear continuous corporate identification world-wide. This new logo has already been adopted and is currently used for all printed material (e.g. letterheads, etc.) by the Iotic Global. Regional Sections are actively encouraged to adopt it as soon as possible. For this, an electronic version of the logo can now easily be obtained as an attached file by sending an e-mail request to the General Secretary (see electronic address on first page). A discette, with the logo on it, can also be sent using regular mail on simple request. Examples of letterhead presentation can also be proposed if needed.

E. Wojtberg
REGIONAL SECTIONS

SOUTH EAST ASIAN REGIONAL SECTION (SSEARS)

President: Rachel E. McFadzean, Alan Fletcher Research Station, PO Box 36, Sherwood, Qld 4072, Australia. Fax: 00-61-7-3375-0777. E-mail: mcfadzean@dbh.qld.gov.au.

Vice Presidents: Dr. R. Wang (China) and Dr. Miyi Hussen (Malaysia).

Secretary/Treasurer: Dr. D. Holtom, Department of Entomology, University of Queensland, St. Lucia, Qld 4072, Australia. Tel 00-61-7-3295 9775 (Office); Tel 00-61-7-3886 9397 (Lab); Fax 00-61-7-3295 9446. E-mail: dholtom@mailbox.uq.oz.au.

Past President: R. Muniappan, Agricultural Experimental Station, University of Guan, Manglares, Guan 96923, USA. Fax: 00-51-671-734-6842. E-mail: rmuni@uog.uog.edu.

International meeting on biological control held within the IOBC/SSEARS

An International Symposium on Biological Control of Insect Pests was held in Suwon, Korea, November 13-14, 1997. This meeting was organized by the Korean Society of Applied Entomology. In the meeting, 15 papers were presented by all invited speakers from six countries (number of papers from each country in parentheses), Canada (1), China (5), Korea (4), Japan (2), The Netherlands (1), Taiwan (1), and USA (1). Participants in the meeting were over 100, most of which were Korean.

Sixth Australian Applied Entomological Research Conference - Pest Management - Future Challenges

29 September - 2 October 1998, Brisbane, Australia.

This scientific event will be the largest applied entomological research conference in Australia. A range of symposia and keynote speakers have been arranged that will address the major issues in the management of insect pests, stimulate discussion and set the tone for research and development in applied entomology into the future.

Conference Keynote Addresses


- "IPM - has it delivered?". Keynote address: Prof. F. Zalom (University of California, USA) and P. Meri

- "Managing the new transgenics - just another pesticide or a revolution for IPM?". Keynote address: Prof. B. Tabashnik (University of Arizona, USA).

- "Alternative technologies other than transgenics - gazing at the long horizon?". Keynote address: P. Fisch (IPM Technologies, USA).

- "Phenological and molecular systematics: complementary approaches for pest management". Keynote address: Dr. M. Schaff (United States Dept. of Ag) and J. LaSalle (CA 3 ME BIOECOLOGY). UK.

- "Is classical biological control safe - or much ado about nothing?". Keynote address: K. Hopper (United States Department of Agriculture, USA).

- "Pest management in a global free trade village: prospects and pitfalls". Keynote address: B. Chu (Australian Quarantine and Inspection Service).

- "Pest and managing key outbreaks species - putting the cart before the horse?". Keynote address: Dr. A. Drake (Australian Defence Forces Academy, Canberra).

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. Share this information by sending any kind of news to the Secretary General (address on first page).
Training Courses from the CRC for Tropical Pest Management

- "Biological Control of Tropical Weeds", 23 March - 3 April 1998.

All courses held in Brisbane, Australia. For further information, contact: CRC for Tropical Pest Management, Gehrmann Laboratories, University of Queensland 4072, Australia. Tel: 07-617-3365-1851. Fax: 07-617-3365-1855. Email: Courses@etpm.uq.edu.au.

AFROTROPICAL REGIONAL SECTION (ATRS)

President: Dr. H.G. Zimmerman, Agricultural Research Council, Plant Protection Research Centre, Weeds Research Division, Private Bag X124, Pretoria 0001, South Africa. Tel: 021-12329-3276. Fax: 021-12329-3278. Email: richtge@plant2.agric.za.

Vice-President: Dr. Oyakegoode-Bakary, DFR, MISRS, B.P. V151, Abidjan, Ivory Coast.

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Treasurer: Dr. A. Paraite, B.P. 12625, Niamey, Niger. Fax: 00-227-75-22-37.

ILOC membership (individual and institutional) in the African region remains very low and this is the main cause for the lack of a newsletter and other ILOC activities within this Regional Section. Discussions with the President of ILOC Global were held recently to find means to boost the membership numbers and, in particular, to find ways to encourage institutions membership through sponsorships.

Activity of the Entomological Society of Southern Africa

"AFRICAN ENTOMOLOGY" is the new journal of the Entomological Society of Southern Africa and has become an important outlet for African researchers to publish their results. 35 pages on biological control have appeared in the four volumes published so far. Besides this, the Entomological Society of Southern Africa and the African Association of Insect Scientists held their first joint congress in Stellenbosch (South Africa) from 30 June to 4 July 1997. Biological and integrated pest control received wide coverage and more than 51 papers and posters out of more than 200 covered these topics.

Workshop on IPM

An IPM Information Partnership, a working group of international organizations with an interest in fostering global IPM, will organize an IPM Communications Workshop for Eastern and Southern Africa (ECWESA) from 1 to 6 March 1998. The aim of this workshop is to strengthen links between existing IPM-relevant networking initiatives in sub-Saharan Africa and to develop plans of action and follow-up mechanisms for
Nearctic Regional Section (NRS)

President: Dr. T. King, Department of Entomology, Agric. Bldg, 321, University of Arkansas, Fayetteville, AR 72701, USA. E-mail: tking@comp.uark.edu.

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President Elect: Dr. L. Chairlet, USDA-ARS, Northern Crop Science Laboratory, Box 5677, State University Station, Fargo, ND 58105-5677, USA. E-mail: Chairlet@fargopra.usda.gov.

Secretary/Treasurer: Dr. R. Wiedenmann, Center for Economic Entomology, Illinois Natural History Survey, 607 East Peabody, Champaign, IL 61820, USA. E-mail: r.wiede@uiuc.edu.

Corresponding Secretary: Dr. L. Milbroth, Department of Entomology, 202 Hultz Hall, North Dakota State University, Fargo, ND 58105-5346, USA. E-mail: milbroth@ndsu.nodak.edu.

Past President: Dr. J. Obrycki, Department of Entomology, 10 Insectary Building, Iowa State University, Ames, IA 50011-3140, USA. E-mail: JObrycki@iastate.edu.

The IOREC/NRS Governing Board Meeting was held on Sunday, Dec. 14, 1997 in Nashville, TN, USA, in conjunction with the annual meeting of the Entomological Society of America. The Annual Meeting of IOREC/NRS was held on Dec. 14th at the same location. The NRS Distinguished Achievement Award was presented to Dr. V. Sturm, University of California, Riverside, USA, for his outstanding contributions to the advancement of biological control within the broader confines of the integrated control concept. The award presentation was followed by a highly successful symposium on: Educational & Outreach Needs in Biological Control – a organized by Vice President R. O’Neil. Symposium presenters were: D. Lands, Michigan State University, USA; M. Hoffman, Cornell University, USA; J.S. Yaninek, Int. Institute of Tropical Agriculture at Benin, Benin; G. Zeller, Texas A&M University, USA. At the business meeting following the symposium, Dr. J.K. Waage, President Global BioControl, informed the membership of the many positive changes within our organization, particularly the new Journal BioControl, the Permanent Secretariat in Montpellier, France, and the new logo. NRS voted to adopt the logo, and will make use of it in future section business. The Corresponding Secretary reported that although 60 members favored movement to an all-electronic version of the NRS newsletter, the move would actually cost money because we would lose the cost reduction afforded by bulk mailing (200 minimum. ca. 140 members would still receive paper copies). The Board decided to revisit this issues in future years. A decline in membership was attributed to lack of membership solicitation, not interest in the section. A membership committee was appointed by President King to address the issue. The NRS working group on Biological Control of Weeds provided a report to the Board and developed a web site for group activities (http://gwa.ifas.ufl.edu/~irobec/wg/). The group also developed an association with the Weed Science Society of America and will meet jointly with this group (2000) and the Entomological Society of America on alternate years. The group also sponsored an informal conference at this year’s annual meeting.

T. King, President IOREC/NRS

Pink Hibiscus Mealybug

The pink hibiscus mealybug, *Hemichromis bipunctata*, has invaded the US Virgin Islands, Puerto Rico, St. Kitts, Trinidad, Tobago, Grenada and several other Caribbean islands. It feeds on about 215 genera of crops and other plants in Asia, Australasia, Africa, India and Egypt, where it is native. In the Caribbean, it is attacking coffee, cotton, soybeans and other crops including fruits such as citrus. The mealybug injects toxic saliva as it feeds. This causes stunted or malformed stems and leaves and can kill the plant.
The USDA-Agricultural Research Service (ARS) is searching for parasitic wasps in the Canary Islands, India, Pakistan, Malaysia, Egypt, and the Arabian Peninsula. Last summer, the Encyrtid wasp Gynandromorpha indica, native to the Middle East and India, was released on St. Kitts. Besides using traditional identification methods to confirm the insect’s identity prior to release, researchers at ARS’ Systematic Entomology Laboratory used a digital camera to capture images of the wasp. They sent the images via the Internet to collaborators at the Natural History Museum in London, UK. The trans-Atlantic team compared the images with specimens in collections in London and the Smithsonian’s Natural History Museum in Washington, DC, USA.

L. Charlton (ARS News Service, July 10, 1997), reprinted from f0berea Newsletter 8(1997)

NEOTROPICAL REGIONAL SECTION (NTRS)

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Secretary: Dr. M.C. Zapatka, Facultad de Agronomia, Universidad de Buenos Aires, 1417 Buenos Aires, Argentina. Fax: 00-54-1-522-8355.

Treasurer: Dr Vanda Paes Bueno, Departamento de Fitossanidade, Escola Superior de Agricultura de Lavras, Caixa Postal 37, CEP 37200-000, Lavras, MG, Brazil. Fax: 00-55-35-829-1100.

Course on rearing entomoplastic insects

This course was held from 27 to 29 August 1997 in the city of Tuxtla (Chiapas, Mexico). It was organized by the Secretaría de Agricultura, Ganadería y Desarrollo Rural, Comisión de Sanidad Agrícola of Mexico. Several Latin American Institutions contributed to the course, and a total of 70 participants were present. A summary of the main topics was published. For further information, contact: M.C. Hugo Casar Arendondo Bernal, Subdirector del Centro Nacional de Referencia de Control Biológico, Km 1.5, Carretera Tecolutla, Estación del Frrco. Apdo. Postal 133, Tuxtla, Colima, C.P. 28130, Mexico. Tel: 00-52-332-40745 Fax: 00-52-332-42773.

First International Workshop on Biological Control and Integrated Pest Management on Banana

This workshop was held in Costa Rica, from 16 to 19 November 1997. It was organized by the IORC/INRS, the Rainforest Alliance and the Amhio Foundation. 24 conferences were presented in the area of Integrated Production, Phytopathology, Nematology, Entomology, Biosochemistry and Wood control. A Working Group entitled ‘IPM in Banana’ was proposed. Dr. Fabio Tabera was proposed as a chairperson. For more information, contact: Dr. Fabio Tabera, Prof. Tropical Crops, Earth, Apartado 4442-1000, San José, Costa Rica. Fax: 00-506-255-2726.

Workshops to be organized

- Biological Control and Ecological Pest Management and Perspectives for its Development in Latin America.
- First Latin American Congress on Integrated Pest Management and Biological Control of the Neotropical Regional Section (NTRS) of the IORC.

These two meetings will be held in Lima, Peru, from 18 to 22 May, 1998. They are supported by the NOVIB and Pan for the world (PWF), and are organized by the Action Network on Alternatives to the use of Pesticides (ANAPA), and by the Ministry of Agriculture of Peru. Several representatives of Latin American countries will participate. On this occasion, the new Council Members for the IORC/INRS will be elected. Among the proposed goals of this event is the participation of more than 500 persons, including scientists, professionals, farmers, technicians, students, and company representatives. For more information, contact: Luis Gomez, Coordinator, Marius Millar 2622, Lima, Apartado Postal 11-0581, Lima, Peru. Tel: 00-511-421-0826 Fax: 00-511-440-4359 e-mail: postmaster@raaa.org.pe.

F. Ferrer, President IORC/INRS
The text of these three talks will be published within the next IOBC/WPRS Newsletter.

The second session was devoted to the presentation of the activities of the previous council. Reports were presented by D.J. Royle (past President), S. Peltt (past General Secretary), and J. Huber (past Treasurer).

The following sessions were devoted to the presentation of the activities of the different commissions and working groups of the Regional Section. The last session was used for discussing and adopting the programme of the new council that was elected during this General Assembly.

A detailed summary of the different points that were discussed during this General Assembly will be published within the next IOBC/WPRS Newsletter.

At the end of the General Assembly, all the participants were invited to a reception offered by the Federal Ministry of Agriculture and Forestry, within the marvelous tropical hothouse of the Schoenbrunn palace.

In order to improve the activity of the different commissions and working groups, the new council has decided to organize a three-days meeting, next February. This meeting will clarify the goals of the different commissions and working groups, for the four coming years.

IOBC welcomes the new offices of WPRS. We hope that the new duties will give you satisfaction and success.
WG QUALITY CONTROL of MASS-BRED ARTHROPODS

Chairman: Dr. N.C. Leppla, University of Florida, Institute of Food and Agricultural Sciences, 2977 Bithos Road, Apopka, F. 32703, USA.
Tel: 00-31-3-91-392-9359 e-mail: NCL@icon.apk.nrl.edu.

Co-chairman: Dr. M. Beuzi, INTRACHEM Italia Srl., Via XXV April 44, 24050 Grassano (Bergamo), Italy.
Fax: 00-39-35-32-53-34.
As was announced in the previous Newsletter, the next international meeting will be held in Cali, Colombia, March 1-4, 1998. This will be a joint meeting with the 5th International symposium on "Egg Parasitoids" (see WG on Egg Parasitoids, below). For more information, contact Dr. N.C. Leppla.

WG BIOLOGICAL CONTROL of PLOTTELLA

Co-chairman: Dr. A.M. Shelton, Department of Entomology, Cornell University, New York State Agricultural Experimental Stations, Geneva, NY 14456, USA. Fax: 00-1-315-787-2453, e-mail: ams5@cornell.edu.

Co-chairman: Dr. A. Sivarapugassam, Strategic Environment and Natural Resources Centre, MARDI, GPO Box 12301, 50724, Kuala Lumpur, Malaysia. Fax: 00-60-5-948-7639, e-mail: sivarapugassam@mas.my.

Co-chairman: Dr. D.J. Wright, Department of Biology, Imperial College at Silwood Park, Ascot, Berkshire SL5 7PY, UK. Fax: 00-44-41-429-4339, e-mail: d.j.wright@ic.ac.uk.

The WG is in the process of developing a network of contacts for people actively working on biological control of the diamondback moth (DBM). Since no such network presently exists, we asked that people on two tss systems (biocontrol@biologicalcontrol@biocontrol) let us know about developments. In addition, we searched the Entomology Society of America's (ESA) annual meeting website (http://www.entsoc.org/) for additional information.

From the ESA site we noted a paper by Hill & Foster (Purdue Univ., USA) in which they evaluated effects of pesticides on DBM. Plutella xylostella (Linnaeus), and on parasitism by Diauddema inuula (Creese). Insecticides applied for DBM caused variation in parasitism by D. inuulae ranging from 20-84%. DBM mortality was significantly different among treatments. Permethrin applications were highly toxic to DBM and D. inuulae populations. Spinosad applications also resulted in low DBM levels, however parasitism was higher than in untreated plots and over 4 times higher than permethrin-treated plots. Selective materials which conserve D. inuulae and reduce DBM levels can be used which may reduce application frequency, thus prolonging field efficacy. Two papers on entomopathogenic fungi were presented. Pell & Furlong (Rotterdam, UK) noted that combined use of entomopathogenic fungi and pheromones in auto-dissemination strategies provided an alternative management tool for the DBM. Male moths are attracted into traps in response to synthetic sex pheromone. Inside the trap, they become contaminated with a lethal dose of the pathogen before leaving the trap and dispersing to the crop. Contaminated moths vector the pathogen passively to susceptible larvae and establish new infected loci on the crop when they succumb to disease. Shelton & Vanden-berg (Cornell and USDA/AR, USA) conducted studies over a three year period which indicated that commercial formulations of Beauveria bassiana can be as effective as presently available products in reducing populations on transplants in greenhouses as well as insects which occur in open fields. This fungus, primarily used for other crop pests, can offer an alternative management option.

In laboratory studies, Baur et al. (Louisiana State Univ., USA) screened sterilized and hybridized nematodes and found Steinernema carpocapae, the most effective against 3rd instar DBM. In the field, formulated S. carpocapae provided 41.4% control compared to 43.5% control obtained using Bacillus thuringiensis subsp. aizawai. Combined applications...
WG FRUIT FLIES OF ECONOMIC IMPORTANCE

Chairman: Dr. M. Alija, Instituto de Ecologia, A.C., Departamento de Ecologia y Conservacion Animal, Apartado Postal 63, Xalapa, Veracruz, Mexico 91000, Tel: 00-52-52-186190, Fax: 00-52-26-121897, e-mail: aliija@unio.eco.unam.mx.


Co-Chairmen: B.A. McPherson, Dept. Entomology, Pennsylvania State University, Univ. Park, PA 16802, USA, Fax: 00-1-814-865-30.

Meetings to be organized:

- "Evolution of Fruit Fly (Diptera: Tephritidae) Behavior," Xalapa, Veracruz, Mexico, February 16-21, 1999. 27 invited speakers coming from 14 countries will discuss on recent advances on fruit fly classification, phylogeny, evolution and behavior.

M. Alija

WG ECOLOGY OF APhIDOPHAGA

Chairman: Dr. D. Hora, Department of Entomology, Ohio State University, 1735 Neil Ave., Columbus, OH 43210-1220, USA, Fax: 00-1-614-292-2180.

Co-Chairman: Dr. R. Chambers, Entom. ARS, Hort. Res. Wörthung Road, Litchfield, W. Sussex BN 17 6 LP, UK.

Co-Chairman: Dr. J. Hodek, Inst. of Entomology, Czech Academy of Sciences, Bratislava 31, 370 05, Czech Republic.

WG CHROMOSOMAL GODBATA

Chairman: Dr. K. Munippan, Agricultural Experimental Station, University of Gacar, Mungiao, Guim 96923, USA, Fax: 00-1-671-734-6842, e-mail: munip@multiserv.rog.

WG EGGS PARASITOID

Chairman: Dr. F. Bin, Agricultural Entomology Institute, University of Perteg, Burgu XXX, Giungo, 09121 Pergas, Italy, Tel: 00-39-57-585-0600, Fax: 00-39-57-585-0693, e-mail: fb1@egeuningen.it.

Co-Chairman: Dr. E. Wajberg, Inria, Unite de Biologie des Populations, 31 Bvd. du Cap, 06010 Aixênce, France, Tel: 00-33-44-92-37-88-92, Fax: 00-33-44-92-37-88-97, e-mail: wajberg@arbe.edu.

Co-Chairman: Dr. S.A. Hassan, Institute for Biological Pest Control, Heimisch, 243.
E. Wojtisch
5th International Symposium on Egg Parasitoids

The symposium will be held at the "Centro Internacional de Agricultura - CIAT" in Cali, Colombia in March 4 to 7, 1998. The meeting will be held in conjunction with the WG "Quality Control of mass reared arthropods", overlapping sessions are planned for March 4, 1998. One problem faced by the WG is that travelling cost for members coming from different parts of the world, and especially from developing countries, is high. Symposia are therefore held in different continents every four years. Colombia is one of the leading countries for the mass rearing and utilization of Trichogramma. The Symposium includes visits to Trichogramma producers. Topics of interest: (1) Biometrics, genetics and biocontrol, (2) Host relation and biology, (3) Physiological and behavior, (4) Ecology and population dynamics, (5) Rearing (in vitro & in vivo), production and release, (6) Compatibility (environmental, biological, chemical), (7) Screening and assessment. For any information and registration please contact Dr. S.A. Hassan.

Trichogramma News

Due to the recent change of the name of the WG (see previous Global Newsletter), this WG Newsletter will now be called "Egg Parasitoids News". A 'Questionnaire' asking for contributions to members is included in each issue of the Newsletter. Colleagues returning the completed Questionnaire will be listed as members. Regular items of the 'Egg Parasitoids News' are: events, address list of members, abstract of current research list of recent publications, news in 30 words, scientific problems, commercial use and natural distribution of Parasitoids. The 9th issue was sent out to the members late in 1996. Copies are still available, ask S.A. Hassan if needed. The 10th issue is under preparation, please send your contributions and information as soon as possible. It will include a table on the commercial use of egg parasitoids in the different countries; treated surface area, crops, target pests and parasite species, etc.

S.A. Hassan
WG IWGO - OSTREIA AND OTHER MAIZE PESTS

Chairman: Dr. H.K. Berger, Federal Office and Research Center for Agriculture, Institute for Phytopharmacy, Spargelstr. 191, P.O.B. 400, 1226 Vienna, Austria. Tel: 06143-1-288-16-2109 Fax: 06143-1-288-16-5255 e-mail: Berger@vfl.at.

After having just a selected number of members and several 'associate' and 'guest members', the International Working Group on Ostrea (lWGO) is now open to all scientists dealing with pests in maize. The European Corn Borer (Ostrinia nubilalis Hbn) is not only the main task but also any other pests occurring in maize.

Meetings held within the activity of the WG:

- November 1995: Meeting of the IWGO Subgroup 'Diatriaena' in Godollo, Hungary.
- October 1996: Meeting of the IWGO Subgroup 'Diatriaena' in Zagreb, Croatia (together with FAO and Erpo).
- September 1997: XIX IWGO Meeting in Braga (Guimarães), Portugal.
- October 1997: Meeting of the IWGO Subgroup 'Diatriaena' in Godollo, Hungary (together with FAO and Erpo).
Publications:
The Working Group released several publications partly with the support of Global Fores:
the following issues of the IWGO Newsletter (a scientific journal edited by H.K. Berger since 1981) were released: Vol. 16, number 2, October 1996, 34 pages; Vol. 17, number 3/2, October 1997, 41 pages; the next one (Vol. 18, number 1) will appear in Spring 1998.

Some abstracts and proceedings were also edited: abstracts of the XIX IWGO Meeting in Braga (Guimarães), Portugal; abstracts of the Sub-Group Meeting « Diastromatica » in Zagreb, Croatia; abstracts of the Sub-Group Meeting « Diastromatica » in Goodsolde, Hungary. The proceedings of the XIX IWGO Meeting in Braga (Guimarães), Portugal is in press.

Ask Dr. H.K. Berger for copies.

Major results, progress achieved:
The most important event in 1996 is certainly the appearance of Elodes uniflora var. variflora in Europe. A large amount of meetings (Subgroup « Diastromatica », Convener Prof. R. Edwards, University of Purdue, Lafayette, Indiana, USA) took place. A FAO research programme together with Hungary, Croatia, Bosnia & Herzegovina and Romania was established and will last until the end of 1998. The goal of this programme is a wide spread monitoring in infested (Serbia, Croatia, Bosnia & Herzegovina, Hungary, Romania & Bulgaria) and threatened countries (Austria, Slovenia, Moldavia, Ukraine & Poland) as well as different control trials in heavily infested counties. In the meantime, also Western European countries reacted on this appearance and send participants to meetings and contributed interesting papers about the possibility of a spread out of this pest westward. Together with FAO, biological possibilities of control will be checked and evaluated.
The next meetings of IWGO will take place in fall 1998 in Ljubljana (Slovenia) (Subgroup Meeting « Diastromatica ») and in 1999 in Turkey or USA.

H.K. Berger

WG WATER HYACINTH
Chairman: Dr. H.G. Zimmermann, Agricultural Research Council, Plant Protection Research Centre, Woods Research Division, Private Bag X134, Pretoria 0001, South Africa.
Tel: 00-27-12329-3276
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The IIOC Global decided to create the Water Hyacinth WG and to choose Dr. H.G. Zimmermann as chairman (see previous Global Newsletter for more information). The first meeting on « Biological and Integrated Control of Water Hyacinth » will be held in South Africa, from 17 to 20 November 1998. Details on the event will be announced in review journals, newsletters, and on the Internet during early 1998. Contact H.G. Zimmermann for more information.

Besides this, the IIOC (International Development Research Centre) sponsored a workshop on improving reaction to water hyacinth in affected countries across Africa and the Middle East. The workshop was held from 17 to 19 November 1997, in Nairobi, Kenya. The main objectives were to identify research and implementation strategies for improving control and to examine the possibility of establishing a water hyacinth information clearing house.

H.G. Zimmermann

SCIENTIFIC EVENTS

«Transnational Conference on Biological, Integrated and Supervised controls», January 21-23, 1998, Lille, France. The conference is organized on the initiative of the Research Station on Biological Control, the Plant Protection Service of Nord Pas-de-Calais Region (Lyonnesse, France) and the agricultural high school of Lomme which represents NYPHEA (New Youth Monitoring Program in Horticulture and Environment Areas). This conference will promote ideas exchanges between researchers and technicians, contacts with professionals, and will also foster the training and the information diffusion to an awarded audience (elected representatives, teachers, associations). For information, contact: Secretariat...
"Jubilee 50th International Symposium on Crop Protection", May 5, 1984. Gent, Belgium. Organized by the University of Gent, Faculty of Agricultural & Applied Biological Sciences. The Symposium will highlight the history of Crop Protection as reflected in a survey of 50 years Symposium and will be, as every year, a unique occasion for scientists from different fields to meet each other and to present and discuss new developments in the complex field of Crop Protection. Plenary sessions are planned, and a set of eight parallel sessions will be organized, including one on Biological Control and Integrated Control. For information, contact: Symposium Secretariat, S. De Lieve, Faculty of Agricultural & Applied Biological Sciences, University Gent, Compere Links 663, B-9000 Gent, Belgium. Tel: 00-32-9-264-60-02, Fax: 00-32-9-264-62-49.

e-mail: saldevlie@ug.ac.be http://faculty.ug.ac.be/~hvanno/symposium.

"Alternative Paradigms for Commercialization of Biological Control Workshop", May 31 - June 2, 1998. Hyatt Regency Hotel, New Brunswick, New Jersey, USA. The workshop will focus attention on creating a new mindset for developing and using biological control, and fostering closer cooperation among industry, researchers, and extension personnel interested in biological control.

It is organized by Rutgers University Experiment Station on Policy-Biological Control Working Group (EBCC-WBC). For information, contact: Biocontrol Workshop, Department of Entomology, 3B Smith Hall, Rutgers, the State University of New Jersey, New Brunswick, NJ 08903 USA, Tel: 00-1-732-932-9349 Fax: 00-1-732-932-7229 http://www3.rutgers.edu/insect s/biocpesticides.htm.

"5th International Symposium on Fruit Flies of Economic Importance", June 1-5, 1988. Penang, Malaysia. Among the topics to be discussed: Biosystematics and biodiversity, sanitary and phytopathological, molecular biology, genetics and biocontrol, natural enemies, postharvest and quarantine, control and management, ecology, biochemistry and physiology, beneficial fruit flies. Deadline for registration: March 1, 1988. For information, contact: Prof. K.H. Kung, Hong, School of Biological Sciences, University Sains Malaysia, 11800 Penang, Malaysia. Tel: 00-60-4-4860361 or 00-60-4-4857076 Fax: 00-60-4-4565125 e-mail: fruitfly@sum.my http://www.sums.my/fruitfly/

"2nd International Conference on Bromina and Geminiviruses", June 7-12, 1988. San Juan, Puerto Rico. The goal of the conference is (1) to improve scientific understanding of virus vectors and geminiviruses, (2) to improve scientific understanding of vector-pathogen-host plant interactions, (3) to simulate interaction between scientists, regulatory officials, industry, growers and other interested parties, (4) to share advances in virus and disease management strategies, (5) to support global food security and environmental protection, and (6) to discuss new emerging problems associated with *Bromus* and geminiviruses. For information, contact: Mrs. D. Guy, Sorrento-Traequor, 2nd International Workshop on *Bromus* and Geminiviruses, 2120 Maiden Road, Orlando, FL 32803-1419, USA. Tel: 00-1-407-497-7304 Fax: 00-1-407-947-7337 e-mail: rmayer@ix.netcom.com.

"International Conference of Integrated Pest Management (IPM) - Theory & Practice, Developing Sustainable Agriculture", June 15-20, 1998. Guangzhou, China. This conference will be devoted to recent achievements and developments in the integrated pest management (IPM) for developing sustainable agriculture. The conference will emphasize exchange of experience in both theoretical research and technological implementation. This will be addressed within the general frame of IPM, to include various animal, plants, microorganisms of agriculture, horticulture and forestry. For information, contact: Organizing Secretariat, Wu Xiaoping, Guangdong Science & Technology Exchange Centre with Foreign Countries, Guangdong Science Hall, DongFeng, Middle Road, Guangzhou 510035, Dongfeng Middle Road, Guangdong Science Hall, China. Tel: 00-86-20-83335289 Fax: 00-86-20-83489454
"10th International Symposium on Insect-Plant Relationships", July 4-11, 1998, Oxford, UK. Traditionally, the emphasis of the Symposium has been on mechanistic aspects of insect-plant relationships. The Symposium will continue this custom but will seek to integrate mechanistic studies with the ecology, evolution and ecology of insect-plant associations. To encourage such integration, all sessions will include invited keynote speakers, as well as selected oral and poster presentations. For information, contact: The conference secretary, SIP 10, Oxford International, Sameretown Pavilion, Middle Way, Oxford OX2 7LG, UK.

"1V Conférence Internationale Francophone d’Entomologie", July, 5-9, 1998, Saint-Malo, Brittany, France. For information, contact: Prof. J.P. Nolin, Laboratoire d’Écologie des insectes parasitiques, Campus de Baulains, Avenue du Général Leclede, 35042 Rennes Cedex, France. Tel.: 33-02-99-28-61-58 Fax: 33-02-99-28-16-23 e-mail: entom@cmn-crsd.fr.

"10th International Congress of Acarology", 5-10 July 1998, Canberra, Australia. For further information, contact: 10th Int. Cong. of Acarology, Australian Convention & Travel Services Pty Ltd., GPO Box 2200, Canberra ACT 2601, Australia. Tel.: 06-1-257-3299 Fax: 06-1-257-3256 e-mail: acarology@acarometter.com.au.

"XXV International Horticultural Congress", 2-7 August 1998, Brussels, Belgium. Organized by the International Society for Horticultural Science (ISHS) and the Benelux, Four major themes will be treated: (1) Cultural techniques, with emphasis on environmental implications (with sub-themes: Sustainable disease and pest control and an Integrated and biological production methods), (2) Quality of horticultural products, (3) Computerization and automation, and (4) Application of biotechnology and molecular biology. For information, contact: M.F. Wilson, Secretary 25th ISHS, c/o Ministry of SME and Agriculture, Bolwerklaan 21, 15th floor, B-1210 Brussels, Belgium. Tel.: 32-2-206-7209 Fax: 32-2-206-7209 e-mail: 25th@ishs.be.

"IV International Bioherbicide Workshop", August 6-7, 1998, University of Strathclyde, Glasgow, Scotland, UK. Organized as a satellite meeting to the 7th International Congress of Plant Pathology in Edinburgh (9-16 August 1998, see below). The workshop will be held at the campus of the University of Strathclyde in Glasgow. For information, contact: Dr. M. Barge, Department of Bioscience and Biotechnology, University of Strathclyde, The Todd Centre, Taylor Street, Glasgow G4 ONR, UK. Tel.: 041-141-548-3626 Fax: 041-141-553-4115 e-mail: m.m.barge@strath.ac.uk.

"7th International Congress of Plant Pathology", August 9-16, 1998, Edinburgh, UK. The postal address of the structure has been designed to match the new perception of modern plant pathology. It has just five themes: (1) understanding plant-pathogen interactions, (2) population biology, ecology and epidemiology (including ecological basis of biological control), (3) plant pathology in practice (including molecular approach to biological control strategies), (4) global perspectives, and (5) new control options (including biological control, genetic manipulation and novel approaches to the use of pesticides). Deadline for registration: April 30, 1998. For information, contact: C. Griff. S. Urc, Congress Secretariat, 7th International Congress of Plant Pathology, c/o Meeting Makers Ltd. 50 George Street, Glasgow G1 1QE, Scotland, UK. Tel.: 041-141-253-4050 Fax: 041-141-552-0511 e-mail: info@meetingmakers.co.uk http://www.bcpp.org.uk/lcpp98.

"6th International Mycological Congress", August, 23-28, 1998, Jerusalem, Israel. For information, contact: Sixth International Mycological Congress, Secretariat, PO Box 50006, Tel Aviv, 61450, Israel.

Regional Symposium for Applied Biological Control in Mediterranean Countries", October 1998. Organized by the Center of Biological Control, Faculty of Agriculture, Cairo University, and by the Ministry of Agriculture in Egypt.
International Biocontrol Manufacturers Association (IBMA)

While commercial biological control is a growing activity worldwide, it constitutes still less than 1% of global sales of pest control products. Furthermore, it is largely undertaken today by small, local or regional companies lacking substantial R&D, information-gathering and promotional capacity. These companies now face, along with growing markets, many new regulatory challenges. To address these problems of size and disparity, a number of companies established in November 1995 an International Biocontrol Manufacturers Association (IBMA). Over the past two years, membership of IBMA has grown steadily. Besides being an association of member companies, IBMA intends to offer a forum for cooperation and harmonization of views of all involved in biological control. Research organizations, private consultants, producers and even interested individuals are encouraged to join IBMA as associated members. IBMA activities are organized in four professional groups dealing with macro-organisms, microorganisms, semiochemicals and natural extracts. Major future activities of these groups will include regulatory issues, quality/standards/certification, and biocntrol promotion. If you are interested in more information about IBMA, please contact Dr. E.J. Blium, Chairman, IBMA, 5, quai Voltaire, 5007 Paris, France.

J.K. Winge, President I0BC

Global

Proceedings of the 1st I0BC Conference dealing with Technology Transfer in Biocontrol: from Research to Practice, which was held in Montpellier in September 1996, are available at the I0BC Permanent Secretariat:

AGROPOLIS, avenue Agropolis
34394 Montpellier cedex 5 France.

Tel: 33 04 67 04 75 30
Fax: 33 04 67 04 75 99
E-mail: I0BC@agropolis.fr
Precio: FF 100 postal charges not included

We would like to express our grateful thanks to Mrs. Anneke Groothout at CABIBIOSCIENCE UK Centre (Abez) for remarking this issue.

Newsletter contributions: I would like to thank all those members who are taking time to send items for this I0BC Newsletter. If you have not previously sent anything, please consider doing so. Remember, this is your opportunity to let others know what is going on in biological control. Take a few minutes and make use of (even better) e-mail items on biological control to T. Wajnberg (address on first page), so they can be included in the next issue. Deadline for submitting items for the Summer 1998 issue of I0BC Newsletter is 15 June 1998.

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

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