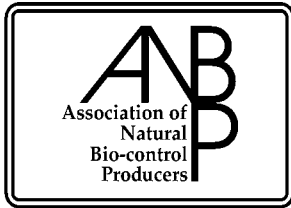


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# Bio-control Matters

## President's Corner:

By Richard Ward, President, ANBP

Well another year is just about over and as we reflect on it from a biological standpoint, it has been an interesting one. We have had some smaller companies go out of business, some companies sold, and a number of retirements and or reassignments in the regulatory arm of the USDA/APHIS.

Having said this, I believe that our industry is poised to grow to heights in the next five years that even the most optimistic of us could not have foreseen.

I just returned from a trip to Almeria Spain where I attended the "Expo Almeria" Trade Show. This was not my first trip to Spain, but it was my first to Almeria. Almeria is located on the Mediterranean in the Eastern part of the Province of Andalucia. Almeria boasts the worlds largest concentration of plastic greenhouses, over 25,000 hectares, and hence has been given the name "The Garden of Europe". As you can imagine, with this many hectares in that climate, insect control is a major undertaking. Until recently, most of the control was by chemical means, some of which were not registered for use. Earlier this year, residues of illegal pesticides were found in some shipments of Sweet Peppers and as a result, many countries within



Montreal Conference 2007 Attendees from 18 Countries

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**ANBP's Mission is to address key issues of the biological control industry through advocacy, education, and quality assurance.**

## ***ANBP Board of Directors:***

- Richard Ward, President (Biobest Canada Ltd)
- Kimberly Gallagher, Vice President (Sterling Insectary)
  - Eda Reinot, Secretary (Becker Underwood)
  - Dan Cahn Treasurer (Syngenta Bio-line, Inc.)
    - Carol Glenister (IPM Laboratories)
    - Angela Hale (The Bug Factory Ltd)
  - Tom MacDonald (MGS Horticultural Inc.)
- Rene Ruitter (Koppert Biological Systems, Inc)
- Brian Spencer (Applied Bio-nomics Ltd)



The ANBP Board at it's Fall, 2007 meeting in Montreal in conjunction with the Conference 2007 and ANBP's Annual Meeting.. Front row L to R are Maclay Burt, Richard Ward, Kim Gallagher, Eda Reinot. Back Row: Rene Ruitter, Brian Spencer, Tom MacDonald, Angela Hale, Carol Glenister. Not shown: Dan Cahn

***“Bio-Control Matters”*** is published by the Association of Natural Bio-control Producers four times per year to provide members with information, thought and opinion on biological control affairs. ***Bio-Control Matters*** advocates the interests of commercial biological control and the public interest of quality agricultural production and environmental protection. ***Bio-Control Matters*** welcomes contributions of comment and opinion, as well as articles of general interest. All contributions must be signed by the contributor. Send contributions for consideration to Maclay Burt, ANBP Executive Director, 2230 Martin Drive, Tustin Ranch CA 92782. Phone/fax (714) 544-8295. (E-mail [execdir@anbp.org](mailto:execdir@anbp.org)). Published contributions may not necessarily reflect the views or policy of ANBP.

***ANBP*** was formed in 1990 by commercial insectaries to provide a united voice in regulatory issues facing the industry. ANBP is also dedicated to quality standards and educating the agricultural and academic communities about the importance of biological pest controls for pest management. ANBP membership exceeds 100, including 46 producers and/or suppliers. Through its efforts, ANBP is recognized as ***THE*** spokesman for the commercial biological control industry.

*(Continued from page 1)*

Europe refused to accept shipments of produce from Almeria.

It was at this point that suddenly insect control through IPM/Biological control suddenly became of great interest and importance. Without biological control, the industry in Almeria would collapse. Today, approximately 3000 hectares of greenhouses are using Biological control whereas five years ago, approximately 150 hectares used beneficial organisms. I visited two research facilities, both of which are working on integrated pest management at a feverish pace in order to get the growers educated as soon as possible. Of course all the major biological control companies are present as well, and assisting in every way possible to move biological control forward. It is expected that through government subsidies and stringent testing of produce, over 15,000 hectares should be using IPM/Biological control within the next two to three years. This will be a major boon to our industry.

One would ask how this affects ANBP and its members, but I think that with all this expansion in Spain, it will open the doors for some of the North American producers to possibly export product there. Failing this, or in addition to it, North American producers may see an increase in demand for product traditionally produced in Europe and shipped to North America, as the major producers in Europe will be concentrating on filling potentially vast orders coming out of Spain.

Our conference in Montreal in October/November, by all reports was successful, informative and entertaining. Montreal proved to be an excellent venue and our host hotel and staff did a wonderful job catering to our various needs. I would once again like to thank the organizing committee for all their help and dedication. It was not easy to organize a conference of this magnitude with so many stakeholders.

Our Spring Board Meeting is planned for February in Utah and our fall meeting is planned for Mississippi to be held at the USDA facility in Stoneville. This should prove to be interesting for all our members and supporters, but especially our producer members. Dates for both these meetings still have to be finalized and will be posted on our website as soon as they are decided.

I would like to take this opportunity to thank everyone who has contributed to the success of ANBP this year and to wish you and your families all the very best for the season and the New Year.

*(Continued on page 4)*

(Continued from page 3)

## Almeria Greenhouses 1987-2004

1987



2000



(Continued on page 5)

(Continued from page 4)

2004



### *Contributing Members:*

ANBP is pleased to recognize the following members for their interest in biocontrol and their generous support of ANBP's programs and goals.

- California Avocado Commission
  - Donald L. Flaherty
- The Morning Star Packing Company

### *ANBP's Website:*

*(Kim Gallagher reports)*

In the coming months, there will be many additions and improvements to the ANBP website. One addition will be ANBP connecting to the Canadian based Insect Production Services website ([www.insect.glf.cfs.nrcan.gc.ca](http://www.insect.glf.cfs.nrcan.gc.ca)), which has a searchable Insect Producer Database. This will enable our member's products to be listed and searched in a dynamic website. Make sure your Product Information is up to date, and if you need to make any changes (or if you prefer not to be listed), please forward the information to Kim Gallagher ([kim@sterlinginsectary.com](mailto:kim@sterlinginsectary.com)). Be on the look-out for other new information on the ANBP website, too.

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## ***Regulatory Issues:***

*(Dan Cahn reports)*

ANBP members are still determined to simplify the import and export of biological control products produced by commercial insectaries. . Currently there is a working system that requires the physical inspection by USDA at Plant Inspection Stations, usually South San Francisco, Los Angeles, New York or Detroit. However these inspections either delay delivery of products or require expensive overtime payments to USDA and customs agents.

New procedures drafted by the North American Plant Protection Organization (NAPPO) promise to expedite and simplify this process. These draft procedures now sit on a USDA desk in Washington DC. Two upcoming meetings may help to move this initiative forward.

First; at the end of February, NAPPO Biocontrol Group will meet in Salt Lake City specifically to discuss bumble bee shipments between NAPPO countries. Bob Flanders from USDA PPQ has promised to attend to discuss regulatory change efforts.

Second; after the NAPPO meeting, a small group of ANBP Board members will go to Washington, D.C. to call on appropriate APHIS regulatory officials and Congressional representatives. The purpose is to acquaint them with our issues and concerns and to also foster mutually useful relationships for the future.

## ***Canada and NAPPO:***

*(Brian Spencer reports)*

Greetings from Canada.

It's at this time of the year that many Canadians hibernate. So if I drop off in mid sentence, you'll understand.

The weather has been frightful! On the west coast, we have seen the lowest total watts per square meter in at least the last 20 years. Yields, therefore, were down, despite a relatively successful year in pest control.

The pest du jour, for this year, was Potato psyllid. We would like to thank our friends to the south for giving us the new opportunity of dealing with this worthy foe.

Lygus bug continues to find our crops irresistible, as have many loopers, and other bugs, including the mis-

*(Continued on page 7)*

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understood Stink Bug. There is a growing groundswell in Canada to allow a product called "the screen". We have seen pictures of screen doors in the Sears catalogue, but every attempt to order one has been thwarted by Canadian Border Patrols.

Anyway, back to my original update, the high Canadian dollar has not reduced the Canadian producers plans to produce their products. New planting is going on as I write this. Many Canadian greenhouses are now using coal and wood waste for heating. The smell of creosote is now the smell of success. We humbly request all shipments to Canada to be palletted and securely sealed in a wooden crate.

NAPPO has set the date for the 2008 Biological Control Panel meeting. It is on Feb 26 to Feb 28, at the University of Utah. The charge that is current is to develop a guideline for non-apis pollinators. The Utah site was chosen because it is close to Logan, Utah, where the USDA pollinator research station is located. A tour of the facility will happen on the Thursday.

I'm off to chip the ice off the ...zzzzzzz

## ***Montreal Conference 2007:***

*(Carol Glenister reports)*

### **"Maintaining Worldwide Connections for Quality Assurance in Arthropod and Nematode Rearing"**

With more than 65 participants from 18 countries, we gained insights into biological control markets, production practices, and research on 5 continents. This meeting resulted from the collaboration of ANBP, ASTM International, IOBC working group on Arthropod Mass Rearing and Quality Control, IBMA, and the Biocontrol Network of Canada . Thank you to our local hosts, Jean Louis Schwartz and Jacques Brodeur, for their local organization efforts!

Species covered ranged from parasitic wasps and parasitic flies to predatory bugs, beetles and lacewings to beneficial nematodes.

Topics included:

State of the industry around the world,

Many types of rearing techniques, including live hosts, artificial substrates and diets Quality assurance concepts and practices

Cold Storageunder



*Conference Co-chairs Simon Grenier  
and Carol Glenister*

*(Continued on page 8)*

(Continued from page 7)

Microorganisms as pathogens and symbionts  
 Genomics  
 Education and Training  
 Phytoseiids  
 Sterile Insect Production and Quality Assurance  
 Industry research needs

For the full program, check the ANBP website, [anbp.org](http://anbp.org).

There was a discussion of the relevance of laboratory quality assurance to field performance which I hope to summarize in the next newsletter.

This meeting was particularly valuable for the expected synergies that cropped up among biological control experts with diverse backgrounds sharing their views. For example, the sterile insect production laboratories seemed to have the soundest correlations between laboratory testing and field effectiveness in our discussion. This seems necessary because they can not rely on a second generation to pick up the slack of an inferior release, because there is no second generation from sterile insects.

The sheer mass of some biocontrol efforts was also encouraging. For example, we learned that some biological control applications in South America was measured in terms of millions of acres including *Cotesia flavipes*, which was applied to a million hectares in Brazil.

The Proceedings were published as *Bulletin Global IOBC, No. 3, 2007* and are available at the IOBC Secretariat. Please contact the IOBC general secretary Dr. Stefano Colazza: [colazza@unipa.it](mailto:colazza@unipa.it) if you would like to obtain a copy.

Many thanks to our many speakers, moderators and sponsors for making this meeting a success! Our sponsors included Becker Underwood, Biobest, the Canadian Forum for Biological Control, Koppert, the French National Institute for Agricultural Research, the International Biocontrol Manufacturers Association, International Organization for Biological Control Global, and Syngenta Bioline.



*Conference opening panel: Broadbent, Ward, DeClercq, Grenier, Glenister, Bolcknans, Johnson*

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## Conference Speakers:



*Angela Hale, The Bug Factory, Canada*



**Karel Bolckmans, Koppert, The Netherlands**



**Maria Luisa Dindo, University of Bolgna, Italy**



**Mukti Ghimire, Oklahoma State University**

(Continued on page 11)



**Andrew Parker, IAEA  
Austria**



**Norman Leppla, University  
of Florida**



**Patrick DeClercq, Ghent  
University, Belgium**



**Jeffrey Shapiro, USDA  
ARS Florida**

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## ***ASTM Happenings:***

*(Carol Glenister reports)*

### **ASTM Subcommittee E35.30 Fall 2007 Meeting**

This fall meeting in Montreal combined a short business meeting with the 3.5 day conference, *Maintaining Worldwide Connections for Quality Assurance in Arthropod and Nematode Rearing* that was co-organized by the ASTM subcommittee. For a brief summary of the conference, please see the *Montreal Meeting* article in this newsletter.

A warm welcome to new members: Dr. Raymond Cloyd (Kansas State University), Dr. Norm Leppla (University of Florida), and Dr. Jan Nyrop (Cornell University).

Participants formed 3 new task groups to create:

- A specification for beneficial nematodes.  
Task group leader is Rene Ruiter of Koppert. Members are Eda Reinot of Becker Underwood, and Ray Cloyd. Later, during the conference, Arne Peters, e-nema GmbH, Germany, was also recruited to cooperate with the task group.
- A specification for Phytoseiids on leaves.  
Members include Don Elliott, Brian Spencer, and Angela Hale. Later, during the conference, David Margolies of Kansas State University expressed interest in cooperating with the task group.
- A specification for *Stethorus punctillum*.  
Members include Don Elliott and Brian Spencer with the intention of inviting Eric Riddick to participate

Brian Spencer presented the changes that Don Elliott proposed for the new *Aphidoletes* and *Delphastus* standards.

Standards going to ballot are:

*Aphidoletes aphidimyza*, Don Elliott  
*Delphastus catalinae*, Don Elliott  
*Eretmocerus eremicus*, Anna Luczynski  
*Feltiella acarisuga*, Angela Hale  
*Hypoaspis/Stratiolaelaps* spp., Don Elliott  
*Neoseiulus cucumeris*, Don Elliott  
*Podisus maculiventris*, Angela Hale  
 Terminology, Carol Glenister

In addition, revisions on *Persimilis* and *Encarsia* are being balloted.

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If you are an ASTM member, please watch for the email ballot notifications and vote. If you would like to vote on these ballots, please join ASTM as soon as possible at [astm.org](http://astm.org).

Carol recommended the following guidelines for the road forward:

Continue a welcoming atmosphere

Continue regular meetings, but expand to more work over the internet

Keep records that honor and recognize every point of view

Support and develop leaders that can develop and improve standards.

## ***ANBP Committees:***

**Regulatory committee:** Chair is Cahn; members: Ruiters; Warner; Spencer; Ward.

**Research:** Chair is Hale; members: Cahn, MacDonald, Reinot, Spencer, Luczynski.

**Liaison and Education (Chair: Gallagher);** members: Leppla, Luczynski; Nyrop; Spencer; Currie.

**Nominations Committee Chair:** Hale; All BOD members to participate

**Meeting committee for 2008.** Chair: TBD. **Committee:** Gallagher; Luczynski; Reinot; Leppla; Juan Morales-Ramos and Guadalupe Rojas.

**QC Committee:** Hale to co-chair with Glenister. All ASTM members to participate.

**Membership committee:** Chair: Ward; Members: MacDonald; Penn; Currie; Antolin Diaz (Mexico)

**Marketing Committee:** define it. Reinot - coordinator; members: Gallagher; Ruiters; Luczynski; Cahn.

## ***Research Notes:***

*Angela Hale reports)*

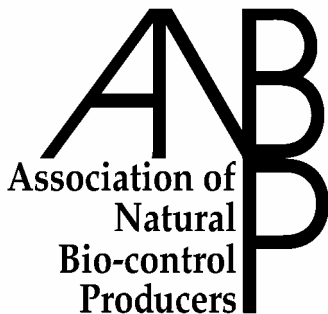
Members of ANBP met with Peter Ebling (Head of Insect Production for Canadian Forest Service) at the recent Montreal conference. Peter manages a database listing mass produced insects. ANBP members have been invited to register and list any insects produced. There may even be an opportunity to link with our ANBP website to make use of their searchable database in the future. Insects can be categorized with their primary purpose being for either research, biological control, or as food. This website is only available for registering insects. Nematodes and mites are not included at this time, although this option might be explored if enough interest presents itself. The intent is that this database will be a valuable tool for finding insects and for exposing your insects to potential customers. The website containing the insect database is [www.insect/qlfc.cfs.nrcan.gc.ca](http://www.insect/qlfc.cfs.nrcan.gc.ca).

# Upcoming Meetings, Workshops and Events

(Revised December 23, 2007)

Don't forget to visit [www.anbp.org/events](http://www.anbp.org/events) for direct links

Date	Title	Location	Contact info
Jan 17-19, 2008	Tropical Plant Industry Exhibition (TPIE)	Ft. Lauderdale, FL	<a href="http://www.fngla.org/tpie">www.fngla.org/tpie</a>
Feb 3-5 2008	AAIE Ecological Pest Control Conference	San Luis Obispo, CA	<a href="http://www.aaie.com">www.aaie.com</a>
May 06-10, 2008	3 <sup>rd</sup> European Whitefly Symposium	Almeria, Spain	<a href="http://www.whitefly.org">www.whitefly.org</a>
Oct 14-17, 2008	Hortifair 2008	Amsterdam, NL	<a href="http://www.hortifair.com">www.hortifair.com</a>
Oct 20-21, 2008	ABIM-Lucerne	Lucerne, Switzerland	<a href="http://www.abim-lucerne.ch">www.abim-lucerne.ch</a>
Nov 7-8, 2008	ANBP Annual Conference and AGM	Stoneville, MS	<a href="http://www.anbp.org">www.anbp.org</a>
Feb 8-13 2009	3 <sup>rd</sup> Int'l Symposium on Biological Control of Arthropods (ISBCA)	Christchurch, New Zealand	<a href="http://www.isbca09.com">www.isbca09.com</a>
Mar 24-26, 2009	Sixth International IPM Symposium	Portland, OR	<a href="http://www.ipmcentres.org/ipmsymposium09">www.ipmcentres.org/ipmsymposium09</a>



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## Bio-control Matters