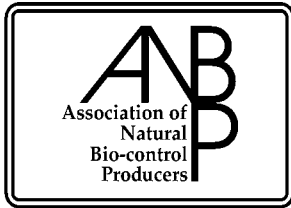


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Bio-control Matters

President's Corner:

By Richard Ward, President, ANBP

Spring is trying to spring here in Canada, but at the time of writing, without too much success. While it was not a particularly cold winter, it just does not want to quit and give us the satisfaction of enjoying our lengthening days.

Fortunately in our business, most of our product goes to the greenhouse industry, which is not too affected by outside climatic conditions.

Plans continue to fall into place for our annual meeting and conference which this year will be held jointly with IOBC's Global Working Group on Arthropod Mass Rearing and Quality Control, ASTM subcommittee E35.30 on Natural Multi-Cellular Biological Control Organisms and International Biocontrol Manufacturers Association Invertebrate Biocontrols Group. That's a mouthful. However, it bodes very well for our industry that all these organizations can come together in one venue for such a meeting. It just goes to show that we have evolved over the years to become a truly international organization.

To date we have pre-registration commitments from the following countries: China, USA, Netherlands, Belgium, Canada, Vietnam, Bangladesh, Austria, France, South Korea, Uganda, Nigeria and Israel. We are expecting delegates from South and Central America as well.

Please visit our website www.anbp.org for updates and information on registering. Thanks to the organizing committee for all their efforts to date.



Montreal, Canada

International Conference 2007

October 28-November 1

Participants include ANBP, IBMA, IOBC, ASTM, Biocontrol Network

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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 Spring, 2007 meeting in Napa, California in conjunction with the Association of Applied IPM Ecologists' Annual Meeting. Front row L to R are Brian Spencer, Eda Reinot, Rene Ruitter, Richard Ward, Dan Cahn, Tom MacDonald. Rear row L to R are Kimberly Gallagher, Carol Glenister, Angela Hale, ASTM Guest Anna Luczynski,

“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). 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)

There is not too much to report on the regulatory front as things have been going relatively smoothly since my last report. The United States has recently introduced E-Manifests (Advance Electronic Cargo Information) for any and all commercial cargo crossing the border. While this does not have much of an effect on the overall movement of our industry's products visa vis the permit process, it has had an effect on the time it takes to clear customs and USDA inspections. Our company has had to pay USDA /PPQ officers overtime on a number of occasions recently to stay late in order to get our shipments inspected due to the delays at the Detroit border. We hope that this will improve as everyone becomes more familiar with the process.

We would like to thank all those in the USDA and CFIA who assist us in the event that there are problems. Their help is vitally important and very much appreciated.

Our website continues to improve each month as Kimberley adds or changes things discussed by our board. It is now possible to register on line for the conference and to renew memberships on line.

On a personal note, my wife and I recently returned from a weeklong holiday trip to Mexico. Not the Mexico that most tourists visit (sand and sea), but instead we visited the towns of Guanajuato and San Miguel De Al-lende. These are two very old historical towns, dating back to the 1500's, rich in architecture and history. I would strongly recommend that anyone who is interested in this type of holiday consider visiting these places.



Here are ANBP President Richard Ward and Cathie overlooking the city of Guanajuato during their recent visit.

Looking forward to seeing you all in Montreal in October and wishing you all a happy and healthy summer 2007.

ANBP Committees:

- **Regulatory:** Cahn (chair), Ruitter, Warner, Spencer, Ward
- **Research:** Hale (Chair), Cahn, MacDonald, Reinot, Spencer, Luczynski
- **Liaison and Education:** Gallagher (Chair), Luczynski, Currie, Nyrop, Spencer, Leppla
 - **Nominating:** Hale (Chair), all Board members to participate
 - **Audit:** Spencer (Chair), all Board members to participate
- **2007 Conference:** Leppla to lead, Glenister, Hale, Ward, Reinot
 - **QC:** Glenister (Chair), all ASTM members to participate
 - **Membership:** Ward (Chair), Penn, MacDonald, Diaz, Currie
 - **Marketing and Public Relations:** Reinot (Coordinator)

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**



International Meeting: Joint Conference

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

DoubleTree Plaza Hotel

Montreal

28 October - 1 November, 2007

(Reported by Carol Glenister)

Our gracious hosts of the Biocontrol Network of Canada have done a fantastic job in local arrangements. As Dr. Jean-Louis Schwartz, leader of Biocontrol Network explained, "Facilitating exchange of information is what we do!" This will be a joint meeting including the ANBP, IBMA, ASTM, and the 11TH workshop of the IOBC global working group on Arthropod Mass Rearing and Quality Control.

The Program at a Glance:

Sunday, October 28, 2007 17:00 Arrival of participants, registration, welcome reception

Monday, October 29, Scientific Sessions, with mid-day luncheon

Tuesday, October 30, Scientific Sessions, Banquet

Wednesday, October 31, Morning Scientific Sessions, Afternoon: Boxed lunch and visit to greenhouse biocontrol sites

Thursday, November 1, Scientific Sessions in the morning, Meetings of individual organizations in the afternoon.

You will find the registration forms for the conference at www.anbp.org soon. If you wish to make a presentation, there is still time to pre-register at http://www.anbp.org/joint_meeting.htm

The conference will be at the **DoubleTree Plaza Hotel in the City Center**, where a block of rooms has been reserved at the conference rate of \$115 Canadian per night (514 842-8581). The Doubletree is a luxury hotel

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in the heart of downtown Montreal. Reservations may be made through the website or by phone specifying group/convention code "BIO." To assure room availability and the quoted rate, reservations must be made by **October 5, 2007**.

www.doubletreeplaza.com

Phone: 1 (800) 561 4644 or 1 (514) 842 8581

Fax: 1 (514) 842-8910

The Hotel is located at 505 Sherbrooke St. East.

To learn more about Montreal, Dr. Schwartz recommends the following websites:

<http://www.tourisme-montreal.org/B2C/00/default.asp>

<http://www.bonjourquebec.com/qc-en/accueil0.html>

<http://www.bonjourquebec.com/qc-en/montreal0.html>

ASTM Happenings

(Carol S. Glenister reports)

Our last subcommittee meeting occurred on February 6, in Napa, California. We discussed four topics:

- standards creation including a new task group on beneficial nematode quality
- A collaborative scientific paper on quality assurance
- Inter-laboratory testing
- ASTM representation at the upcoming joint conference with AMRQC in Montreal.

All topics except the inter-laboratory testing have actions to be completed prior to the meeting in Montreal.

Completed standards will be put to the vote so that it can be accomplished by October. These include the revised *Encarsia*, the revised *Phytoseiulus*, *Neoseiulus cucumeris*, *Aphidoletes aphidimyza*, *Feltiella acarisuga*, *Podisus maculiventris*, and *Delphastus catalinae*. Anna Luczynski agreed to adapt the *Encarsia* standard to *Eretmocerus eremicus* and circulate it to ASTM subcommittee and to researchers. The fly parasite standard was deferred until the next meeting in Montreal. Eda Reinot agreed to start a task group on developing standards for beneficial nematodes.

Standards in process will be submitted to vote in time to be processed by the end of September. Please watch your email carefully for these votes as they come up.

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Norm Leppla is spearheading the creation of a paper describing the collaboration between industry, researcher and the end-user in developing and refining natural enemies as products. Norm is relying on industry for details, data, and examples that illustrate how Quality Assurance and product development function and optimal collaborations can generate optimal results.

The final step in creation of ASTM standard test methods is to run inter-laboratory tests, which we have accomplished 2 times thus far. Anna ran a test on the Encarsia flight and emergence chamber with growers. We did a modified version all in the same room on the same samples on Persimilis in Niagara Falls several years ago in order to rule out the variable results created by shipping to many different laboratories.

The developing Joint Meeting with AMRQC, and IBMA is covered in this newsletter in an article dedicated to that topic. The next ASTM meeting will occur at this joint meeting. See the ANBP website for details.

Canada Update ((Brian Spencer reports))

Hello from the Great White North. After a very slow start to the Greenhouse production, things are finally moving. Fuel costs and cheaper imported product during the winter forced a lot of the Canadian growers to delay planting for weeks, if not months.

For the out-door nurseries, a cold spring has also delayed the introduction of beneficials.

All across Canada, and at least the northern US, the increased presence of the Foxglove Aphid is being noted. They are found in the Peppers for the most part, as far as food production goes, but they are devastating the flower producers. Their favorite plant appears to be the small flowered Petunia and close relatives. These Petunias outdraw the Foxglove Aphid even from the Eggplants that have become standards as a trapping plant in most greenhouses.

For those of you who have been lucky not to have seen the Foxglove Aphid, it is a medium sized, usually green aphid. They tend to have relatively long legs and antenna, but the most obvious characteristics are the tissue damage that they cause, and their defensive behavior. Scouting for Foxglove Aphids is one of the easiest things you will do. Look for leaf puckering, twisting and deformities. They also attack the new growth and tips, frequently killing the new growth. Their defensive technique is to fall away from the plant at the slightest movement. This also helps in the scouting, because they will fall away from your finger tips as you approach them. This technique however, is also very effective at defending themselves from an Aphidius attack. The biocontrol that is effective on Foxglove Aphid is Aphidoletes, because of their subtle approach. But the damage even a small infestation can cause is so significant, only a strong preventative program will work well enough to prevent significant crop loss.

Dave Gillespie of Agriculture Canada has been working on the Foxglove Aphid for a few years, and has identified 4 parasitoids that appear to have the Foxglove Aphid worked out. He has offered them to the industry. We have taken him up on one of the biocontrols that he has identified, and I hope that the rest of the industry have also taken advantage of his most generous offer. Dave is one of the last researchers in the world who is still putting new biocontrols into the industry.

Member Profile

Duke Farms Foundation

(One of an occasional article of interest to members)

Out of the blue in 2006, the Duke Farms membership arrived

Duke Farms, a 2,700-acre estate in Hillsborough, New Jersey, was developed by tobacco and hydropower magnate [James Buchanan Duke](#) beginning in 1893.

By the time he died in 1925, J.B. Duke had transformed more than 2,000 acres of farmland and woodlots into an extraordinary landscape. He excavated 9 lakes, constructed some 45 buildings, and built nearly 2 ½ miles of stone walls and more than 18 miles of roadway. He also installed approximately 35 fountains and populated his park with countless pieces of sculpture.

When J.B. Duke died, his daughter Doris was 12 years old. She inherited control of the estate, and continued to enhance the property when she became an adult.

It developed that the Farm is a client of IPM Laboratories in nearby New York.

Here are some comments from The Farm's Ron Dalrymple:

Well..... my name is Ron Dalrymple and I'm the Team leader of horticulture at duke farms. I manage a staff of 18 gardeners who do all the work in our 11 themed gardens. I've been employed here for 16 years, 12 as a gardener and 4 as a team leader (Supervisor). I've had the opportunity to work personally with Doris Duke on various projects. We just recently started to use biological control in the gardens and have had great success.

We have been working very closely with Carol Glenister from IPM labs, she's been a great help. Carol spent two days with us going through our gardens helping us become a little smarter in identification of our insects; she had a lot of fun here. We do have a farming operation however we do not use biological control there.

We are new to the field of Biological control and we felt it would be a good idea to join ANBP as a way of making contacts. Duke Farms is actively trying to become a more eco friendly facility. Our visitation is about 40,000 people a year, biological control is a great way of educating the public in the use of alternative methods for insect control.

Position Announcement

(Reported by University of Florida's Norman Leppla)

Please note that we have a new position opening at the Mid-Florida Research and Education Center in Apopka, Florida.

The Research Center Website is: <http://mrec.ifas.ufl.edu/>

The job description is posted at: http://personnel.ifas.ufl.edu/vacancies/00013977_MFREC.pdf

Research Notes

(Reported by Angela Hale)

Local grower associations and commodity groups are a great resource to find out what pest problems are in your area and to create partnerships with researchers.

In western Canada, the British Columbia Greenhouse Growers Association (BCGGA) circulates a list of research needs on a quarterly basis. This updated priority list is sent by email to researchers, consultants and extension staff. The 2007 Research and Industry Development Priority List Is divided into general categories of interest to all commodities and specified for cucumber, tomato and pepper crops.

Of most relevance to the producers of beneficial arthropods are concerns about foxglove aphids, other aphids, lepidopteran pests, whitefly, thrips, psyllids, lygus bugs and effective mite management strategy.

Application forms for letters of intent or project proposals can be found on the BCGGA website www.bcgreenhouse.ca/for_researchers_consultants.htm.



Cabbage Looper



Spider Mite Damage

Marketing/Public Relations Committee

(Reported by Eda Reinot)

At the February Board meeting in Napa, CA, the Board discussed a necessity for the Public Relation Committee. I agreed to facilitate this Committee formation and based on the discussions with the Board members, we have René, Kim, Anna, Dan and I as current members of this Committee.

The actions our small Committee has taken so far are:

1. We had a conference call with Plant Management Network International (PMN) to explore the potential use of PMN as additional publicity arm for ANBP.
 - a. PMN services many companies in the biocontrol and crop protection industry, for example: Syngenta, AgraQuest, PBI Gordon, Valent BioSciences; Pioneer Hi-Bred (a DuPont Company) etc.
 - b. PMN also services non-profit associations, such as BPIA (Biopesticides Industry Alliance), APS, USGA, CropLife America and others as a PR / marketing arm.
2. I am acquiring references from the non-profit partners of PMN to understand the value they see in PMN and PMN's performance as a marketing arm for these non-profit organizations. This will help our decision making.
- 3.. ANBP's current tactics of Public Relations are our website www.anbp.org, our Annual Conferences and Workshops and our Newsletter.
4. PMN can support our association's Marketing efforts by:
 - a. building our image to a broader audience than we would be able to reach alone
 - b. position ANBP's biological practices as viable solutions via their network reach which is broader that we would be able to reach alone
 - c. educating PMN users / readers (~200,000 readers world wide), who are mainly growers, consultants and applied researchers (all meaningful categories for ANBP)
 - d. acting as a media outlet for ANBP, connecting us to their users and influencers

This evaluation is in process by our team.

United Nations' FAO

Following is from the May meeting of the Food and Agriculture Organization of the United Nations.

ORGANIC AGRICULTURE AND FOOD SECURITY

In a paper "Organic Agriculture and Food Security" presented by the Food and Agriculture Organization (FAO) at a recent conference on organic agriculture and food security, FAO recognizes the economic importance of organic agriculture and its potential to contribute to global food supply. The paper identifies the strengths and weaknesses of organic agriculture with regards to its contribution to food security, analyzes attributes of organic supply chains against the Right to Food framework, and proposes policy and research actions for improving the performance of organic agriculture at the national, international and institutional levels.

"The strongest feature of organic agriculture is its reliance on fossil-fuel independent and locally-available production assets; working with natural processes increases cost-effectiveness and resilience of agro-ecosystems to climatic stress," the paper says.

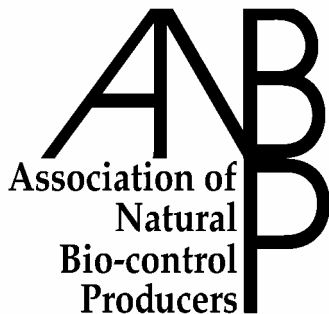
Read the press release at <http://www.fao.org/newsroom/en/news/2007/1000550/index.html>.

Upcoming Meetings, Workshops and Events

(Revised May 23, 2007)

Don't forget to visit www.anbp.org/events for direct links

Date	Title	Location	Contact info
July 14-17, 2007	Ohio Short Course	Columbus, Ohio	www.ofa.org
Sept 12-13, 2007	CanWest Hort Show	Vancouver, Canada	www.canwesthortshow.com
Oct 3-4, 2007	Canadian Greenhouse Conference	Toronto, Canada	www.canadiangreenhouseconference.com
Oct 28- Nov 1, 2007	"Maintaining Worldwide Connections for Quality Assurance in Arthropod and Nematode Rearing" Joint Meeting IOBC/AMRQC, IBMA and ANBP Conference and AGM	Montreal, Canada	www.anbp.org
Nov 11-15, 2007	National Congress on Biological Control	Yucatan, Mexico	www.controlbiologico.org.mx
Dec 9-13, 2007	ESA Annual Meeting	San Diego, CA	www.entsoc.org
Feb 8-13 2009	3 rd Int'l Symposium on Biological Control of Arthropods (ISBCA)	Christchurch, New Zealand	www.isbca09.com



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