



WINTER 2005

# IOBC - NRS Newsletter

*International Organization for Biological Control  
Nearctic Regional Section*

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## Distinguished Scientist Award 2004



*Marjorie Hoy*

**Dr. Marjorie Hoy** was delighted to be selected as IOBC-NRS's Distinguished Scientist this past year. She has pioneered the use of genetics to develop improved natural enemies of pest insects and mites. She has used traditional and

recombinant DNA methods and has been able to deploy improved parasitoids and predators in practical pest management programs in California and Florida. In 1996, she received approval to release the first transgenic beneficial predator into the environment. She is interested in the ecological effects of such modified biological control agents and is studying the potential risks associated with releases of insects and mites modified by recombinant DNA methods.

Marjorie began her research career while in high school, studying the ability of house flies to transmit poliovirus. While a graduate student the University of California at Berkeley she decided to combine her interest in genetics and biological control of pests. At the Connecticut Agricultural Experiment Station and the U.S. Forest Service Laboratory in Connecticut she worked on genetic ma-

nipulation of parasites of the gypsy moth. Subsequently, she returned to the University of California at Berkeley as a faculty member and conducted research on genetic improvement of parasites and predators of insect and mite pests in vineyards, and in almond, apple, pear, citrus and walnut orchards. In 1992 she moved to the University of Florida where she is an Eminent Scholar and Davies, Fischer and Eckes Professor of Biological Control.

She has authored more than 300 scientific publications, and has edited or co-edited four books on biological control and genetics. The second edition of Dr. Hoy's textbook entitled *Insect Molecular Genetics* was published recently. She received the U.S. Department of Agriculture Award in 1997 for "outstanding research on biological pest controls including successfully developing and deploying the world's first genetically altered predator mite used to control destructive spider mites." Other awards include being elected Fellow of the American Association for the Advancement of Science and of the Royal Entomological Society. The Entomological Society of America awarded her the Founders Memorial Award and the Bussart Award, and in 1996 she was elected a Fellow of the ESA. She serves on editorial boards of two biological control journals and the board of Agricultural Biosafety Research.

## IOBC-NRS Student Award 2004



*Jana Lee*

**The 2004 recipient** of the IOBC Outstanding Graduate Student Award is, indeed, an outstanding student. Jana C. Lee received her B.S. from the University of California at Berkeley, in Genetics and Cell biology, where she did

undergraduate research in plant molecular biology. She then completed a M.S. degree in Entomology at Michigan State University, where she focused

on agricultural ecology and biological control in Doug Landis' laboratory. Her research focused on interactions between habitat management, insecticide use, and abundance of carabid beetles. Jana was among the first to quantify the response of carabids to habitat disturbance. At the University of Minnesota, she completed her Ph.D. in 2004 under the guidance of George Heimpel. Her field- and lab-experiments elucidated the role of floral nectar in influencing the behavior and physiology of insect parasitoids in the field. Her dissertation work provided critical tests of the long-standing hypoth

— continued on page 2



## FROM the PRESIDENT

### Making Changes

**First of all**, thank you for the privilege of serving you as the NRS president. Both the Governing Board and I have a few ideas about changes we hope to implement in the next two years to make IOBC more relevant to our membership. And second, because you are reading this, you have continued your membership and support of biological control. Thank you for doing this. Not all your colleagues renewed their membership last year – in fact, we lost over 90 members. Part of my task is to ask them to consider re-joining; another part of my task is to ask for you to continue your membership. And what does the society offer in exchange for membership? Certainly supporting biological control for its own sake once may have been enough; given the competing demands for your financial resources, this is no longer sufficient. We hope the annual meeting, the excellent symposia organized and presented, and the camaraderie among your peers at the meeting are all important to you. We also hope you value the Distinguished Scientist Award and Outstanding Student Awards presented each year. The award winners this year – Marjorie Hoy of the University of Florida as IOBC Distinguished Scientist and Jana Lee formerly of the University of Minnesota as the Student award winner – truly were outstanding choices (see page 1).

In addition to these aspects of IOBC, the Governing Board has decided to try to find ways to increase the relevance of IOBC to students. In addition to the current student award, we recognized that the pool of applicants included

excellent students in both M.S. and Ph.D. tracks, yet M.S. students were at a disadvantage due to their shorter tenure in grad school. As a result, we will implement a second student award, offering student awards to both M.S. and Ph.D. students, beginning this year. One of our members offered to fund the first year of the award, for which I am grateful; the Governing Board will budget for continuation of this award beyond this year's donation. A second way we will seek to support student is through scholarships to attend the IOBC meeting and summer school, which will take place in Quebec this May. The Governing Board, with the assent of organizer (and former Board member) Jacques Brodeur, decided to offer scholarships to defray costs for students to participate in the meeting and three-day summer school. See the web site for application details.

We have changed how we pay dues as well. Enclosed in this newsletter and on the web site are copies of the new dues form. Two major changes: 1) dues are paid to the Global Secretary in Denmark; and 2) dues are payable by credit card. I just paid mine, and received an e-mail confirmation of receipt of the dues. The charge of 26.50 € is (currently) equivalent to \$34.50. The Global Treasurer will then disburse the appropriate portion of your dues to our Section. Global President Joop van Lenteren is still negotiating the ability for IOBC to accept credit card payment for dues through a secure web site, but that is not yet operational. In the meantime, please renew your dues through the global Secretary.

I also want to acknowledge Marjorie Hoy, Maurice and Catherine Tauber,

### Change in Dues Payment

If you have not already sent in your dues to the NRS Secretary-Treasurer, please pay by your 2005 dues to IOBC Global instead. The dues form is on page 9 of this newsletter, or can be accessed as a pdf file at [www.entomology.wisc.edu/iobc/nrs.htm](http://www.entomology.wisc.edu/iobc/nrs.htm)

Dues payments are to be made **by credit card or by electronic bank transfer** and are to be sent to the IOBC Global Secretary, Lise Stengard Hansen, in Denmark. Her addresses — both regular mail and email — are on the form.

Please also note that dues are paid in Euros — 26.50 Euros (regular member) or 12 Euros (student member). The exact amount in US dollars will depend upon the exchange rate at the time the credit card company makes the payment.

John Ruberson, and Mark Schwarzlaender, whose gifts to IOBC-NRS have helped fund the Graduate Student and Distinguished Scientist Awards.

I look forward to the next two years of service. And as much as I will rely on the Governing Board, I also need to rely on you for suggestions about symposia or award nominees, your participation in the Annual Meeting and this year's 50-year symposium in Quebec, and your research notes or other contributions to the newsletter. I know it sounds trite to say that the society is only as good as its members, but it really is true. Please feel free to contact me or any of the other Board members with your ideas. Thanks.

— Rob Weidenmann

### Student Awards —Continued from page 1

esis that increased floral diversity in agricultural habitats leads to improved biological control.

In addition to the IOBC Award, Dr. Lee was awarded both the first-year and last-year graduate fellowships by the University of Minnesota Graduate School, and the Louise Dossdall fellow-

ship (Jana is the only student in the history of the Department of Entomology to be awarded all three of those fellowships), and most recently was awarded the UM College of Agriculture's Philip C. Hamm Scholarship for Graduate Students in Plant Sciences and related Disciplines.

She has been an author or co-author on six refereed papers, two book chapters and two guides to natural enemies. She is currently employed by the US Forest Service, studying chemical ecology and biological control of invasive forest insects.



## IOBC-NRS BUSINESS

### Apply or Encourage Students to Apply for TWO Outstanding Graduate Student in Biological Control Awards

The IOBC-NRS is now sponsoring two Outstanding Graduate Student Awards for students whose contributions are likely to shape the future of the discipline of biological control – one each for PhD and MS students. The recipients will be recognized at the IOBC NRS Informal Conference held at the Annual Entomological Society of America meeting and each will receive a cash award of \$250. The PhD winner will also give the lead talk in the IOBC-NRS symposium. See the IOBC-NRS web site ([www.entomology.wisc.edu/iobc/awards.htm](http://www.entomology.wisc.edu/iobc/awards.htm)) for information on previous award winners.

#### Award Eligibility

All individuals who are enrolled in a graduate program in North America or Bermuda, and are members of IOBC NRS

at the time of the application deadline are eligible. We note that students may join the society at the time of submitting their application (membership details available at the website [www.entomology.wisc.edu/iobc/nrs.htm](http://www.entomology.wisc.edu/iobc/nrs.htm)). Students who are *not* planning to attend the Entomological Society of America Meetings would ordinarily be less likely to be considered for the award. Although all students are welcome to apply, experience has shown that more advanced students have tended to rank higher than students just beginning a project.

#### Deadlines and Application Procedures

The deadline for the application is **April 10, 2005**. Students should send a letter that details the significance of their research and its relevance to bio-

logical control; a 2-page CV that includes contact information, Education, Honors & Awards, Presentations, and Publications; and ask 2 referees to send letters of reference to Marshall Johnson, President-Elect IOBC-NRS. We also ask that you confirm your plans to attend the Ent. Soc. Mtg. in Ft. Lauderdale in November 2005 in the letter. To facilitate sharing of applications among the Student Award committee members, we ask that you send all of the documents as Microsoft Word attachments to [mjohnson@uckac.edu](mailto:mjohnson@uckac.edu). A decision will be made and the recipients notified in time for the talk title to be entered in the ESA online submission system. Contact Marshall Johnson if you have questions.

### Distinguished Scientist Award Nominations Requested

The IOBC-NRS is soliciting nominations for the 2005 DSA. Nominees must have spent most of their career in the Nearctic Region (essentially Canada and the U.S.), and have made significant contributions to biological control, but need not be members of IOBC. Nominations are restricted to one page in length and should include the name and current contact information of both nominator

and nominee, as well as a thorough but concise summary of the principle contributions of the nominee.

This is our organization's main way of telling people how much their work is appreciated. The recognition of those scientists who have made outstanding contributions to the science and implementation of biological control over extended and illustrious careers is an im-

portant function of IOBC. Many members have expressed to me their enjoyment of seeing colleagues honored with our Distinguished Scientist Award. Help us honor our deserving colleagues!

Please send nominations by **April 10, 2005** to the IOBC-NRS President, Rob Wiedenmann at [rwieden@uiuc.edu](mailto:rwieden@uiuc.edu)

## NEWSLETTER INFO

### Improve This Newsletter by Submitting Articles

Submission of news items from the membership is what makes this newsletter of value to all.

Do you have a student finishing a M.S. or Ph.D.? Send in their abstract to publicize the work they've done.

Know of some biocontrol work done by your local county, state, or provincial government that will probably never be published? Submit excerpts from their report so others can hear about these success stories (or cautionary tales of biocontrol gone bad).

Although a deadline is set for the editor's sake, please submit at any time for future newsletters (my address is on the back page). Some suggested topics are:

- Items in the news affecting biological control
- Taxonomy (revisions or studies impacting biocontrol)
- Reports of Working Groups
- Announcements
- New research projects

- Thesis or dissertation topics
- Open Forum type letters
- Biocontrol position announcements
- New appointments or people moving around
- Awards or honors received by members
- Meetings or workshops related to biological control
- New publications

**Items for the Summer Newsletter are due by 15 May 2005**



## Minutes of the 2004 IOBC-NRS Governing Board Meeting

**The Annual Meeting** of the Nearctic Regional Section Governing Board was held 14 November 2004 in Salt Lake City, Utah in conjunction with the Annual Meeting of the Entomological Society of America. Those present included Jacques Brodeur, George Heimpel, Molly Hunter, Stefan Jaronski, Marshall Johnson, Doug Landis, Nick Mills, Megha Parajulee, Les Shipp, and Rob Wiedenmann. The following is a condensed version of the minutes of the GB meeting.

**Membership report.** (Jaronski) — 178 paid individual members plus 3 institutional members for 2004. There were 18 new members (mostly students), but 94 that did not renew.

**Financial report.** (Jaronski) — The financial report (expenses and budget for 2005) was approved after adding \$4000 to contribute to the IOBC-NRS/Biocontrol network meeting as scholarships for students to attend. (Global IOBC has contributed \$1000.) Hunter, Shipp and Wiedenmann will serve as a committee to evaluate student applicants. Scholarship availability was to be announced at the Business meeting, on the web and by several email lists. Student applications will consist of a letter of justification, presentation abstract and one page CV. The amount allocated to each scholarship will be decided by the committee, in part based on the number of applications and their quality.

**Vice-President's report.** (Mills) — This will be the last year the Business Meeting can start before 7pm on Tuesday, since the ESA Program committee intends to reserve 6pm for the student award ceremony. In the future the business meeting will begin at 7 pm and the symposium will be shortened by reducing the number of invited speakers from 5 to 4, plus the student. John Ruberson again contributed the plaques for the award winner; it might be the last year that he is able to do this. This contribution, along with contributions from the Taubers and Bob Luck will be mentioned at the Business meeting.

The business meeting agenda included: 1) Mike Rose Memorial, 2) Financial report, 3) Thanks to old officers, continuing officers, introductions of new officers, 4) Global news, 5) 2005 IOBC Meeting in Quebec, and 6) Solicitation for nominations for the Distinguished Scientist award for 2005, applications for the Outstanding Graduate Student award.

**Student awards committee report.** (Wiedenmann) — after an initial lackluster response, the deadline was extended and emails were sent to various listserves (e.g. W1185 participants, NCR-125 participants, heads of departments (CEDA)). This resulted in 14 applicants, some of which were excellent. Jana Lee (MN) was the winner; despite the delay in evaluation of the students, there was still time to get her name in the program. Because of this success, the same emails will be sent out in 2005, but before the deadline. There was some discussion of the fact that the few Masters students that apply are not really in contention for the award because of their relative lack of experience and few publications compared to the PhD students. Brodeur suggested that a Masters level student award be instituted. It was decided to wait for a year or two to make sure that we continue to get applications for the student award and also it should not start when there will be a new student scholarship committee as well. The student award committee for 2005 is Johnson, Landis and Parajulee.

**Report from Greenhouse Working Group.** (Shipp) — 2004 funds were used to support the symposium offered at the International Congress in Australia. Funds from the 2005 allocation may go to support a meeting in Turku, Finland in 2005; however, due to less interest from WPRS in holding this meeting, the working group may instead organize a symposium at the meeting of the American Floral Association.

**Global news.** (Hunter) — some of new IOBC Global president (Joop van Lenteren) initiatives were discussed.

These included resuscitating regional chapters, especially those from South America, Africa and East Asia. Van Lenteren hopes to entice members to rejoin with encouragement from a 'membership in exchange for biological control information' plan. Van Lenteren has also proposed a writing partnership program between members from Western countries and non-English speakers, and an internet database for biological control programs. Johnson suggested that it would be very helpful if IOBC had lists of members around the world that might be available to cooperate in foreign collaboration and exploration.

Hunter mentioned van Lenteren's idea of having all IOBC members pay electronically through a central web site, with disbursements made to chapters. He also proposed that global would get \$12.50 rather than \$10 from every regular member, and continue to get \$10 (of the total \$15) from student membership. The Board approved a motion that NRS support the Global plan. There was general support for electronic payment because of the possibility that it would be easier to renew for those of us without checkbooks at work. There were some concerns about when this transition would take place; how often the disbursements would be made; and how to accommodate those who would prefer to pay by check.

There was also approval expressed for giving Global more money to support new programs. The Board approved a suggested dues increase to \$35, still a very modest amount for membership to a professional society, in order to support new programs in IOBC/NRS (such as student scholarships, sponsorship of meetings, additional awards).

**New Vice-President's report.** (Heimpel) — the topic "Biological control in support of conservation biology" was suggested for the 2005 IOBC symposium at the ESA meeting in Fort Lauderdale. There was lots of enthusiasm for this idea.

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## NEWS

### Lundgren Now With USDA-ARS

**Jonathan Lundgren** accepted a Research Entomologist position with the USDA-ARS in Brookings, SD. Jon received his PhD in 2003 from the University of Illinois with Robert Wiedenmann

and was the IOBC Outstanding Graduate Student in '03. Recently, he had been working for the Illinois Natural History Survey studying biological control in organic transition systems.

In his current position with ARS, Jon is investigating biological control and invasion biology within the soybean system.

### Free Service for Identifying Cutting-Edge Technologies

**In order to capitalize** on the high-performance products of tomorrow, insect and pest control companies must identify the latest, cutting-edge technologies of today. The University of Florida is offering a new service to its commercial partners and interested investors: UF Tech Alert is a simple, free, web-based service that instantly notifies subscribers of University of Florida technologies available for licensing in their specific areas of interest. UF Tech Alert generates a text-only email to subscribers with a web link to a description of the new discovery and contact data for more information. The service will help recipients identify groundbreaking technologies to expand existing product lines, improve manufacturing processes, and introduce the next generation of biorational attractants, repellants, and pesticides.

Anyone subscribed to UF Tech Alert would have been among the first to read about the following UF-developed technologies, which are only a few examples from the long list of environmentally safe, breakthrough technologies related to insect or pest control that are currently available for licensing:

- A simple and efficient method to alter strains of arthropods by DNA-mediated transformation so that they can be engineered to increase their effectiveness as biological control agents.
- A soil tunnel matrix for subterranean termite control that offers both oral and cuticular exposure, causing massive contamination among colony members.
- NecDew™, a synthetic ant bait that is designed to replicate an ant's normal diet of nectar and honeydew so that ants are unable to distinguish between

the insecticide-containing NecDew™ and its own natural food sources.

- Numerous other patented, naturally occurring attractants and DEET-free repellants, each one of which is species or genus-specific for biting insects and crop pests.

Subscribers may also choose to receive information about new technologies in other sectors of agriculture or industries, including engineering/physical sciences, environmental, genomics, therapeutics and others.

To subscribe to UF Tech Alert, simply visit [http://apps.rgp.ufl.edu/otl/tech\\_updates1.cfm](http://apps.rgp.ufl.edu/otl/tech_updates1.cfm) (or go to <http://www.otl.ufl.edu> and click on "UF Tech Alert" in the left-hand column) and select the particular industries of interest.

For more information, contact Jane Muir at [jmuir@ufl.edu](mailto:jmuir@ufl.edu) or at (352) 392-8929.

## ANNOUNCEMENTS

### 2005 Midwest Institute for Biological Control

**The 2005 Midwest Institute** for Biological Control short course, "Techniques for evaluating natural enemies", will be held June 13 - June 16, 2005 at The Ohio State University, Wooster Campus. The course will present information about the current techniques for evaluating the impact of natural enemies in various systems. Topics will include life table analysis to discriminate parasitization rates, ordination analysis to associate different species of natural enemies with various parameters, evaluation of parasitic nematodes releases, quality control of natural enemies, methods of release, evaluation of tritrophic interactions and evaluation of the impact of pesticides on natural enemies.

Each topic will be covered using a combination of lecture and hands on exercises. The lectures will include the use of handouts and slides and will be followed by hands on laboratories that will include live specimens and exercises. The hands on exercises will present examples from biological control programs used in ornamentals, greenhouses and field crops. All the techniques presented will be discussed in the context of their potential use in biological control/IPM programs. General knowledge about biodemographic techniques (i.e. life tables and ordination analysis) is helpful, but not required.

The course instructors will be: Dr. Luis Cañas, Dr. Casey Hoy, Dr. Dan

Hermes, and Dr. Parwinder Grewal, all of The Ohio State University, and Dr. Robert O'Neil, Purdue University and Dr. Raymond Cloyd, Illinois University.

This course is limited to 20. Registration is \$160 for students and \$325 for non-students, including post-docs. Off-campus lodging available (Approx. \$55 + tax per night). One scholarship is available to cover costs of registration and on-campus double room - see the registration packet, which will be available on April 4, 2005.

Address inquiries to Dr. Luis Cañas, The Ohio State University/OARDC, 1680 Madison Ave. Wooster, OH. 44691. Ph: (330) 263-3818, Fax: (330) 263-3686, email: [canas.4@osu.edu](mailto:canas.4@osu.edu).



## RESEARCH BRIEFS

### Identifying Natural Enemies of Emerald Ash Borer

ARS scientists have found three species of parasitic wasps that are natural enemies of the emerald ash borer (*Agilus planipennis*), a major threat to ash trees. Researchers with the U.S. Forest Service and Michigan State University found the potentially beneficial insects in a study plot in Livonia, Michigan. Unable to identify the wasps, they sent samples to Systematic Entomology Laboratory entomologists Michael Schauff and Michael Gates, who determined them to be species of the genus *Balcha*, a larval parasitoid, and the ge-

nus *Pediobius*, which attack its eggs.

But determining the wasps' precise identity will entail much work. The genus *Pediobius* alone contains about 215 species worldwide, 32 of which are found in North America.

SEL's work is just one part of ARS's emerald ash borer campaign. Entomologist Paul W. Schaefer and colleagues at ARS's Beneficial Insects Introduction Research Unit in Newark, Delaware, have traveled to South Korea, Japan, and Mongolia in search of the insect's origin, hoping also to find its natural en-

emies. The biology and behavior of any potential biological control agents they find will be intensively investigated, including host-range studies. They'll also explore ways to trap the borers and perhaps manipulate the behavior of their natural enemies.

—Adapted from “Working To I.D. Foes of Emerald Ash Borers” in the February 2005 issue of *Agricultural Research magazine* by Luis Pons at <http://www.ars.usda.gov/is/AR/archive/feb05/borers0205.htm>.

### Augmentative Biological Control of Balsam Twig Aphid

The balsam twig aphid is a major insect pest of balsam and Fraser firs grown for Christmas trees. In this study, insect predators associated with balsam twig aphids were identified in fir Christmas tree fields in Michigan. A diverse complex of predators, primarily generalists including syrphids, coccinellids, and lacewings, was observed on infested trees. Predator abundance was generally low early in spring when aphid fundatrices were present, but predators became more common as sexuparae and later aphid stages appeared.

Laboratory and field studies were conducted to assess the effectiveness of augmentative releases of *Chrysoperla*

*rufilabris* for balsam twig aphid control. In controlled laboratory tests, *C. rufilabris* were capable of consuming at least 35 balsam twig aphids per day, but were able to develop on 10 aphids per day. Average adult weight of *C. rufilabris* increased with the number of aphids consumed by larvae.

In field studies, release of one *C. rufilabris* larva onto caged branches with moderate aphid infestations significantly reduced the density of overwintering aphid eggs. In open field releases, approximately 25 first instar *C. rufilabris* larvae were placed on each infested tree in mid-May. A second release (of about 400 larvae/tree) was made two weeks

later on half of the trees because aphid populations were extremely high.

Lacewings significantly reduced the density of sexuparae and overwintering eggs in two of three fields. There was no significant difference in aphid or aphid egg density between the trees treated with one or two applications.

—Fondren, K. M., D. G. McCullough and A. J. Walter. 2004. *Insect Predators and Augmentative Biological Control of Balsam Twig Aphid (Mindarus abietinus Koch) (Homoptera: Aphididae) on Christmas Tree Plantations*. *Environ. Entomol.* 33(6): 1652-1661.

### A Potential Leafy Spurge Biological Control Agent

A beetle found in Italy whose larvae feed on the inner stems of a plant species closely related to leafy spurge was selected as a candidate agent for the biological control of leafy spurge in the US. *Thamnurgus euphorbiae* Küster adapted to and survived on several leafy spurge ecotypes from North America, as well as its native host plant and two others in that genus from Italy, but was unable to develop on other related plants and economic test plants.

In laboratory cage experiments testing the most important ecotypes of

leafy spurge to be controlled in the U.S., *T. euphorbiae* attacked 60% of the exposed stems present on test plants and control plants. *T. euphorbiae* adults attacked big stems measuring 3.1-4.1 mm in diameter. Smaller stems (1-2 mm in diameter) were not attacked.

A petition for the introduction of the beetle into U.S. quarantine has been approved by the USDA-APHIS's Technical Advisory Group for Biological Control Agents of Weeds in 1999. The release of the beetle in the field is dependent on additional host range studies

with native and rare U.S. plant species requested by Technical Advisory Group for Biological Control Agents of Weeds.

—Campobasso, G., G. Terragitti, E. Colonnelli and N. R. Spencer. 2004. *Host Specificity of Thamnurgus euphorbiae Küster (Coleoptera: Scolytidae): A Potential Biological Control Agent of Leafy Spurge Euphorbia esula L. (Euphorbiaceae) in the United States*. *Environ. Entomol.* 33(6): 1673-1680.



## PUBLICATIONS

### Free Book on Host Range Testing of Parasitoids and Predators

A new book "Assessing Host Ranges for Parasitoids and Predators Used for Classical Biological Control: A Guide to Best Practice" by Van Driesche, R. G. and R. Reardon (eds.) is now available. The book includes contributions from biocontrol scientists from Australia, New Zealand, the US, Ecuador, Canada, and CABI-Bioscience in Europe.

This 243 page volume contains an 15 chapters (apart from introduction and summary), of which 6 synthesize ideas

from the literature on processes in host range testing and 9 are case histories by researchers who have made host range estimates for their research. In the case history chapters, the authors analyze what they did and explain both why they made the choices they did and discuss both what worked and what failed. The overall intent is to provide as much insight into the process of making host range estimates for these groups of natural enemies as possible.

The book, free from the US Forest Service, should be of interest to biological control practitioners and to conservationists and land managers.

To order your copy, please contact Dick Reardon of the US Forest Service (rreardon@fs.fed.us) in Morgantown, West Virginia. There is no charge. Extra copies may be requested for use in classes.

### Governing Board Meeting — Continued from page 4

#### Miscellaneous new business.

- Landis encouraged submissions to Biocontrol.
- Distinguished Scientist Award will be announced at the business meeting; take nominations from the membership and Governing Board members.
- Heimpel suggested IOBC-NRS should offer its opinions on the regulation of

arthropod biological control; both how it *should* be done, and how to cause the move to better regulation. Many possibilities for accomplishing this were suggested; it was proposed the membership be asked for input on how to proceed.

Meeting adjourned at 7:40 pm.

### Calendar of Events — Continued from page 8

#### Aphid and Coccid Biocontrol

September 25-29, 2005

Tsuroka, Japan

An IOBC International Symposium is being organized by Yamagata University with support from several Japanese scientific societies. The aim of the symposium is to explore differences and similarities in the ecology of aphidophagous and coccidophagous insects and their interactions with their hosts. Sessions will be held Natural enemy augmentation in protected cultures; Conservation and promotion of natural enemies; Environmental risks of natural enemy introductions; Interactions of ants, homopterans and natural enemies; Intraguild predation; and Information acquisition and foraging in insect parasitoids and predators.

For more information visit the conference website at [www.bf.jcu.cz/tix/strita/aphidophaga/main.html](http://www.bf.jcu.cz/tix/strita/aphidophaga/main.html) or contact:

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#### 6th Pacific Rim Conference on the Biotechnology of *Bacillus Thuringiensis* and Its Environmental Impact

Oct 30 - Nov 5, 2005

Victoria, British Columbia, Canada

Both talks and posters in seven specialist sessions, a reception and banquet.

For more information visit the Conference website at [www.sipweb.org/2005pacrimconf.pdf](http://www.sipweb.org/2005pacrimconf.pdf) or contact Lucie Lévesque at [biocontrol-network@umontreal.ca](mailto:biocontrol-network@umontreal.ca).

#### IOBC-NRS Symposium and Annual Meeting — at the ESA Annual Meeting

Nov 6-10, 2005

Fort Lauderdale, Florida

More information on the IOBC-NRS Symposium will be included in the next issue of this newsletter. For details on the Entomological Society of America annual meeting, visit the ESA website at <http://www.entsoc.org/>.

#### WG Needs New Leaders

Drs. Kevin Heinz and Les Shipp have been co-convenors of the NRS Greenhouse, Nursery and Ornamental Landscape IPM Working Group since 1999. Although both have enjoyed co-organizing and co-sponsoring various symposia and workshops under the banner of IOBC/NRS, it is time for new ideas and new blood to lead the working group. They are looking for two volunteers to take over leadership of the working group. If you are interested, please contact Kevin Heinz ([kheinz@neo.tamu.edu](mailto:kheinz@neo.tamu.edu)) or Les Shipp ([shipp1@agr.gc.ca](mailto:shipp1@agr.gc.ca)).



## MEETING CALENDAR

### **Integrated Control in Glasshouses and Outdoor Nursery Stocks**

**April 10-14, 2005**  
**Turku, Finland**

The joint meeting of the NRS and WPRS greenhouse IPM working groups will feature four days of presentations and workshop discussions.

For more information, visit the conference website at [www.agrsci.dk/plb/iobc/meet2005.htm](http://www.agrsci.dk/plb/iobc/meet2005.htm) or contact:

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Phone: +358-3-4188 2580  
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E-mail: [Irene.Vanninen@mtt.fi](mailto:Irene.Vanninen@mtt.fi)

### **Joint Meeting of the IOBC-NRS and the Biocontrol Network of Canada**

**May 8-11, 2005**  
**Magog, Quebec, Canada**

The meeting will cover all aspects of biological control and will include a symposium on "Trophic and Guild Interactions in Biological Control" featuring invited keynote speakers. The text of the symposium "Trophic and Guild Interactions in Biological Control" will be published in the new book series 'Progress in Biological Control' from Springer (formerly Kluwer Academic Publishers) available in early 2006.

A special session is also scheduled to celebrate the IOBC Global 50th anniversary. The rest of the meeting's program is round out by submitted papers, a poster session and social events. The conference will be followed by a summer school intended for graduate students and postdoctoral fellows that share an interest in biological control (May 11-13).

For more information see the Biocontrol Network website at [www.biocontrol.ca/](http://www.biocontrol.ca/) or contact committee Co-Chairs:

Jacques Brodeur  
Département de Phytologie  
Université Laval  
Ste Foy, PQ, Canada  
(418) 656-2131 ext. 2518  
E-mail: [jacques.brodeur@plg.ulaval.ca](mailto:jacques.brodeur@plg.ulaval.ca)

Guy Boivin  
Horticulture Research and Development Centre  
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Quebec, Canada J3B 3E6  
(450) 346-4494 ext. 210  
E-mail: [boiving@agr.gc.ca](mailto:boiving@agr.gc.ca)

### **3rd International Symposium on Bio-control and Biotechnology**

**May 10-13, 2005**  
**Wuhan, China**

The symposium will provide a forum for promoting both theory and practical application of bio-control and bio-technology for plant pest, disease and weeds management.

For more information visit the Bio-control Symposium website at [isbcb3.hzau.edu.cn/committee.htm](http://isbcb3.hzau.edu.cn/committee.htm) or contact Meng Ying at [isbcb3@mail.hzau.edu.cn](mailto:isbcb3@mail.hzau.edu.cn)

### **International Conference on Biological and Pro-Ecological Methods for Control of Diseases, Pests and Weeds in Orchards and Small Fruit Plantations**

**August 2005**  
**Warsaw, Poland**

Topics will include modern methods of pathogen detection; biopreparates for control of pathogenic fungi and bacteria; the use of predators in pest control; and integrated pest management in fruit production.

For more information see the PomoCentre website at [www.pomocentre.insad.pl/](http://www.pomocentre.insad.pl/) or contact:

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Resch. Inst. of Pomo. and Flor.  
Pomologiczna 18, 96-100  
Skierniewice, Poland  
Phone: 48-46-833-2021  
E-mail: [Psobicz@insad.pl](mailto:Psobicz@insad.pl)

### **IX European Workshop on Insect Parasitoids**

**Sept 5-9, 2005**  
**Wales, UK**

Both talks and posters in seven specialist sessions, a reception and banquet.

For more information visit the Royal Entomological Society website's meeting page at [www.royensoc.co.uk/meet.html](http://www.royensoc.co.uk/meet.html) or contact Dr. John S. Hoyes, organizer at [jsn@ngm.ac.uk](mailto:jsn@ngm.ac.uk)

### **2nd International Symposium on Biological Control of Arthropods**

**September 12-16, 2005**  
**Davos, Switzerland**

This is a continuation of the first international symposium on the biological control of arthropods in Hawaii in January 2002. The intent is to allow practitioners to meet, exchange information, and to foster discussions of issues affecting biological control work, particularly pertaining to the use of parasitoids and predators. Approximate costs of \$300 registration, \$120/night. For more information contact the ISBCA Symposium Secretary in Switzerland ([ISBCA@bluewin.ch](mailto:ISBCA@bluewin.ch)).

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## IOBC Membership Application 2005

**Region** (please tick where appropriate):

APRS\_\_ ATRS\_\_ EPRS\_\_ NRS\_\_ NTRS\_\_ WPRS: register at IOBC-WPRS.org

### CATEGORY OF MEMBERSHIP (2005 fees):

__ Individual members:	NRS (USA and Canada):	26.50 €
	group C countries#:	20 €
	group C countries, student members (up to PhD)*:	12 €
	group B countries:	8 €
	group A countries:	0 €
__ Subscription to BioControl (normal price: 180 €):	add 94 € to membership price	

Institutional and supporting members, please contact the Secretary General of IOBC Global (Prof.dr. S. Colazza; colazza@unipa.it)

#see IOBC Global website (www.IOBC-Global.org) for country grouping

\*provide proof of student status by enclosing letter from supervisor

Family name: \_\_\_\_\_ First name(s): \_\_\_\_\_

Institute: \_\_\_\_\_

Street and no: \_\_\_\_\_

Postal code and town: \_\_\_\_\_

Country: \_\_\_\_\_

Tel. No. \_\_\_\_\_ E-mail: \_\_\_\_\_

Please send application form to: Lise Stengård Hansen, Treasurer/IOBC Global  
DIAS, Danish Pest Infestation Laboratory  
Skovbrynet 14,  
DK-2800 Kgs. Lyngby, Denmark  
E-mail: LiseS.Hansen@agrsci.dk

### PAYMENT:

**By credit card** (only VISA and MasterCard/Eurocard):

VISA \_\_\_\_\_ MasterCard/Eurocard \_\_\_\_\_

Card No. \_\_\_\_\_ Expiry date: \_\_\_/\_\_\_/\_\_\_

Card Validation Code (the last 3 digits on back of credit card in signature strip) \_\_\_\_\_

Name as on card \_\_\_\_\_

Amount to be paid: \_\_\_\_\_ € Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### By money transfer:

Bank account of IOBC Global: Danske Bank, Sorgenfri Torv, DK-2800 Kgs. Lyngby, Denmark, account no. 4490018387. Swift code: DABADKK. IBAN No.: DK1930004490018387.

Please make sure that *all charges are taken from your account* so that IOBC Global receives the net amount. Enclose a copy of the transfer with this application.

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**International Organization for Biological Control of Noxious Animals and Plants  
Nearctic Regional Section**

**Organisation Internationale De Lutte Biologique Contre Les Animaux Et Les Plantes Nuisibles  
Section De La Region Nearctic**

<http://www.entomology.wisc.edu/iobc/nrs.htm>

IOBC website: <[www.iobc.agropolis.fr](http://www.iobc.agropolis.fr)>

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**Send items for the  
Summer 2005 IOBC-NRS Newsletter  
by 15 May to:**

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The International Organization for Biological Control - Nearctic Regional Section Newsletter is published 3 times a year in February, June, and October to provide information and further communication among members of the Region (Bermuda, Canada, and the United States).

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