The SIP Newsletter

Volume 39, Number 1 February 2006

Yellow Crane Tower

IX International Colloquium on Invertebrate Pathology
XIII International Conference on *Bacillus thuringiensis*
&
XXXIX Annual Meeting of the Society for Invertebrate Pathology
Wuhan China
August 27-September 1, 2006

Meeting web sites: http://sip2006.hzau.edu.cn
www.sipweb.org

We are pleased to extend an invitation to you to attend and participate in the 9th International Colloquium on Invertebrate Pathology and Microbial Control, which is held in conjunction with the 39th Annual Meeting of the Society for Invertebrate Pathology and the 8th International Conference on *Bacillus thuringiensis*. This meeting (SIP2006) is scheduled from August 27 –September 1, 2006 in Wuhan, the capital of Hubei Province, China, and held under the auspices of the Society for Invertebrate Pathology (SIP).

The SIP is an international organization to promote invertebrate pathology and microbial control by providing a platform for scientific discussions and social interactions. The Society has members from well over sixty nationalities and its meetings are held annually at various venues around the world. This time we welcome you to Wuhan and to communicate the latest results of your research endeavors at the meeting.

On behalf of the Society and the local organizing committee for the meeting, we very much look forward to your participation in the 2006 meeting in Wuhan, China, and we will do whatever possible to make your stay as pleasant as possible. If you need assistance with visa applications, please contact the conference secretary, Dr Sun Ming directly.
Email m98sun@mail.hzau.edu.cn

Professor Yu Ziniu
Chairman of the Local Organizing Committee

Scientific Program. The 39th Annual Meeting will begin with an evening welcome mixer on Sunday, August 27, 2006, followed by a full scientific program from Monday to Thursday. The scientific program will open on Monday morning with the Founder's lecture and plenary session, followed by afternoon symposia, contributed papers and posters. Symposia and contributed paper sessions will be conducted throughout the meeting. Contributed

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Deadline for the next Newsletter is June. 1, 2006

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Note: Toll Free numbers for Canada & USA only

papers are being collected covering on all topics related to invertebrate pathology. The Division meetings and workshops are scheduled in the evenings of Monday and Wednesday. The meeting will end after banquet on Thursday evening.

Preliminary List of Plenary Lectures, Symposia and Workshops

Plenary session:
Microbial control in Asia
Organizer: Wendy Gelernter (gelernt@paceturf.org)

Symposia:
Bacterial Division: (chair Christina Nielsen-LeRoux, christina.nielsen@jouy.inra.fr)
I Genetics and characterization of mechanisms of Bt-resistance
Organizers: Juan Ferre (Juan.Ferre@uv.es) and William Moar (moarwil@auburn.edu)

II Bacteria in biocontrol in Asia: natural and biotech strains
Organizer: Ray Akhurst (Ray.Akhurst@csiro.au)

III Genetical exchanges and gene expression in B. thuringiensis
Organizers: David Ellar (dje1@bioc.cam.ac.uk), Colin Berry (berry@cf.ac.uk) and Didier Lereclus, (dlereclus@jouy.inra.fr)

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The SIP Newsletter is published 3 times per year and is available on our homepage.

Submissions to the following sections are solicited:
Forum: More substantial articles on current issues of concern, limited to approximately five pages.
Letters to the Editor: Issues of concern can be brought to light here.
Microbial Control News: Information on new discoveries, "News Releases", formation of companies, etc., pertaining to microbial control.

We also depend on our members to supply us with information for the following sections: **Obituaries, Member News** (Retirements, Awards, Promotions), **Members on the Move** (New Addresses), **Positions Available/Wanted, Meeting and Workshop Announcements,** and other **News Items.**

Send all submissions directly to the Editor. Submissions via e-mail or on computer disk (MSWORD, if possible) streamlines publication and saves on costs. Please include a hard copy with any text sent via computer disk.

Deadline for the next Newsletter is June 1, 2006.

Fungus Division (Chair: Joergen Eilenberg, JEI@KVL.DK)
I A Cordyceps symposium
Organizer: Richard Humber (rah3@cornell.edu)

II Ecology of Entomophthorales
Organizer: Ming-Guang Feng (mgfeng@zju.edu.cn)

Microsporidia Division (Chair: Gernot Hoch, hoch@ento.boku.ac.at)
I Microsporidia in silk moth
Organizers: Gernot Hoch (hoch@ento.boku.ac.at) and Leellen Solter (lsolter@uiuc.edu)

Microbial Control Division (Chair: Michael Brownbridge (michael.brownbridge@agresearch.co.nz**)**
I Novel approaches for dealing with difficult data
Organizer: Surendra Dara (skdara@ucdavis.edu)

II The LUBILOSA project in Retrospective
Organizer: Roy Batemann (r.bateman@imperial.ac.uk)

Nematode Division (Chair: Parwinder Grewal, grewal.4@osu.edu)
I Emerging pest targets for entomopathogenic nematodes
Organizer: David Shapiro-Ilan (dshapiro@saa.ars.usda.gov) and Richou Han (richou-han@163.net)

Virology Division (Chair: James E Maruniak, marun@ufl.edu)
I Diseases of aquatic invertebrates
Organizer: Just Vlak (Just.Vlak@wur.nl)

II Field performance of insect viruses
Organizer: Zhihong Hu (huzh@wh.iov.cn)

Cross-Divisional Symposia:
I Monitoring and managing for Bt-resistance: The challenges for the next decade (MCD & BD)
Organizers: Juan Ferre (Juan.Ferre@uv.es) & Carlos Blanco (Cblanco@mas-stoneville.ars.usda.gov)

II News in invertebrate immunity: from humoral to cellular response (BD & FD)
Organizers: Christina Nielsen-LeRoux (Christina.nielsen@jouy.inra.fr) and Rosalind James (rjames@biology.usu.edu)

III Nematodes and Bacteria: from Pathogenicity to Mutualism: (BD & ND)
Organizers: Raffi Aroian (raroian@biomail.ucsd.edu) and Parwinder Grewal (grewal.4@osu.edu)

Workshops:
I Microbes commercialized in China/Asia
(Microbial Control Division)
Organizer: Vince D'Amico (Vincent.D'Amico@usda.gov)

II Beneficial and noxious Microsporidia of Asia
(Microsporidia Division)
Organizer: Regina Kleespies (r.kleespies@bba.de)

Deadline for abstracts: April 29, 2006
The Program committee solicits your contribution of abstracts for presentations at the meeting. Contributed oral presentations will be limited to 12 minutes with an additional 3 minutes for answering questions. Because of concurrent sessions, moderators will be instructed to keep to the scheduled times. Digital projection and PC computer equipments are available. More information about this will be provided shortly (details will be posted on the meeting website http://sip2006.hzau.edu.cn). Posters should be 0.9 m (3 ft) wide and 1.2 m (4 ft) tall. Tacks for mounting posters will be provided.

Participants in the Student Competition will be limited to one presentation, either a poster or a contributed paper, but not both.

April 29 is the deadline for receipt of abstracts for the symposia, contributed papers, poster and plenary presentations. Abstracts received after the deadline will not be printed and late submissions will be scheduled as posters if space permits. The Program Committee reserves the right to request that some contributed papers be presented as posters although this will only be done if absolutely necessary. The printed Program and Abstract book will be available only to those registered for the

Date	AM	PM	Evening
August 27	Registration	Registration & SIP Council Meeting	Mixer
August 28	Opening Ceremonies, Founder's Lecture, Plenary Session	Symposia and Contributed Papers/Posters	Workshops & Division Meetings
August 29	Symposia and Contributed Papers	Excursion: Yellow Crane Tower & Hubei Museum Or: Yellow Crane Tower & Guiyuan Zenist Temple 5K Race	BBQ
August 30	Symposia, Contributed Papers & Posters		Workshops & Division Meetings
August 31	Symposia and Contributed Papers		Banquet
September 1		Post Conference Tours to the Three Gorges or Xi'an City	

meeting, but this information will be made available in electronic form on the SIP website.

Excursion Possibilities:

Yellow Crane Tower: located at Snake Hill in Wuchang and the South of Yangtze River, is one of the "Three Famous Towers" of China.

Guiyuan Temple: initially built in the Qing Dynasty (1644-1911) by two monks, is one of the four largest temples for Buddhist meditation in Hubei as well as an important Buddhist temple in China.

Hubei Provincial Museum is the most important research and collection institution in the province. More than 140,000 collections, mainly from a big tomb excavated in 1978, are well preserved and maintained here, including 645 excellent cultural relics and 16 national treasures.

Post-Meeting Tours:

The Yangtze River is the largest river in China. It stretches for about 200 km from Fengjie City to Yichang City and cuts through three majestic canyons named the Qutang Gorge, the Wu Gorge, and the Xiling Gorge, known as the "Three Gorges". Visit also the century-spanning Three - Gorges Dam Project on the Yangtze River, which is now attracting worldwide attention.

Xi'an, named Chang'an in ancient times, has witnessed the rise and fall of numerous Chinese dynasties, and mountains and archaeological sites surrounding the city serve as a reminder that once upon a time Xi'an stood at the very center of the Chinese world. The Terra-cotta Army, pottery warriors and horses are located 1.5 kilometers east of the Mausoleum of Emperor Qin Shi Huang. The site was discovered in 1974 and more excavations were made in the subsequent years.

Deadline for Registration

Early registration: March 1 to April 30
Late registration: May 1 to August 18
Walk-in registration rates: After August 18

On-line registration is strongly encouraged and will begin March 1, 2006 at: http://sip2006.hzau.edu.cn. However, for those who prefer to register by mail or fax, registration materials are provided at the website. If you need any further assistance, please contact the conference secretary, Dr Sun Ming (m98sun@mail.hzau.edu.cn).

The registration fee includes access to the scientific and social program, Program and Abstract book, mixer, barbeque and banquet dinner.

Cancellation policy: Refunds for cancellations will only be provided before August 1, 2006 with a 25% cancellation fee. After August 1, refunds cannot be guaranteed.

Guiyuan Zenist Temple

ADDITIONAL MEETING ANNOUNCEMENTS

Richard Humber is organizing a symposium, "Current Perspectives on Cordyceps", for the Division on Fungi to put the current understanding of the dramatically expanding knowledge of the biology and importance of fungi in the genus Cordyceps into contemporary focus. Further news on this symposium will be provided as it develops; Humber apologizes that health problems (now resolved!) have delayed his work on this symposium.

SIP Travel Award Application General Instructions

(Please Note!! These instructions apply to both the Martignoni Student Award and the Division-sponsored Travel Awards)

To apply, you must be a student enrolled in a university degree program. You need not be a member of the SIP or of any Division sponsoring a travel award. Award applicants must submit an abstract of their work to be presented at the Society's Annual Meeting.

Applications for all travel awards, both poster and oral presentations, should be sent to the Chair of the Awards and Student Contest Committee, Stephen Wraight, email: spw4@cornell.edu. The subject matter of the presentation should pertain to topics in invertebrate pathology and/or microbial biocontrol. All individuals submitting oral presentations will automatically be considered for the Martignoni Award (poster presentations are not eligible for Martignoni Award consideration). Following selection of the Martignoni Award winner, all applications will be forwarded to the appropriate division(s) for travel award competitions. Students and their supervisors are advised to refer to the SIP Newsletter and SIP website for specific information regarding availability of student travel awards for 2006.

There is no limit on the number of awards you may apply for in a single year. However, while you may be considered for multiple awards (for example, one or more Division-sponsored awards and the Martignoni Award), you will be eligible to receive only one travel award per year. You are eligible to receive the Martignoni Award only once during your student career. Consult Division chairs for current guidelines on Division Travel Awards.

Required Information

1. *Curriculum vitae*. This should include your name, address, institution, earned degrees, current degree program, honors and awards, research experience, and a list of publications and previous presentations.
2. *A short biographical sketch and description of scientific interests and goals*.
3. *A letter from your supervisor* providing a 1) recommendation, 2) verification of your student status, and 3) confirmation that the research presented was conducted by you (if you are not listed as the first author of the abstract you submit, your supervisor must explain your specific role in the research and how you have met this requirement).
4. *Presentation abstract*. The application must include a one-page summary of the presentation including title, authors, and affiliations. The presentation category (oral or poster) should be clearly indicated. If your presentation relates to more than one pathogen group or involves fundamental studies such as research on invertebrate immune defense systems, please indicate the division or divisions you feel would be most qualified to judge your work. Your research contribution represents one of the most important selection criteria. Therefore, the abstract should be crafted with care, succinctly describing the research rationale, any unusual or novel methods, and the principal results. An explanation of the significance of the research findings should be offered in conclusion, based on sound interpretation of the results.
5. Brief (one page) description of experimental and analytical methods employed in conducting the research reported in the presentation abstract.

Please Note: Submitting an award application does not serve to place your name on the program. To do this, you MUST also submit your abstract to the meeting organizers as specifically instructed on the meeting website or registration forms.

Deadlines
Deadline for submission: **April 1**
Committee decisions: **May 1**

Successful applicants will receive an official communication from the appropriate Committee Chair and should confirm their acceptance and participation as soon as possible. Award certificates and cash prizes will be presented at the meeting, but if necessary for travel, the cash awards can be provided in advance.

Mauro Martignoni Student Award
All students of invertebrate pathology are invited to compete for the sixth annual Mauro E. Martignoni Student Award, the Society's premier award for student research. An award certificate and cash prize of $750 will be presented at the 39th Annual Meeting in Wuhan, China (to be held 27 August – 1 September, 2006 in conjunction with the IXth International Colloquium on Invertebrate Pathology and Microbial Control). The applicant is required to submit an abstract of his/her research to be presented in an oral presentation at the meeting. Specific application details are described in the section on SIP Student Awards.

2005 Division Travel Awards
All poster travel award applications and, with the except of the Martignoni Award winner, all oral presentation travel award applications will be forwarded to appropriate Divisions for consideration for the Division Travel Awards.

Bacteria Div.:	2 $500 awards
Fungi Div.	1 $750 award or 2 smaller awards
Microbial Control Div.	1 or more awards
Microsporidia Division	1 $750 or 2 $500 awards
Nematode Division	1 $750 award
Virus Division	2-3 $750 awards

2005 STUDENT PRESENTATION AWARDS

Once again, SIP and the Divisions presented a significant number of student awards at the 2005 Anchorage, Alaska meeting. In this issue, we highlight the achievements of the Paper and Poster Award Winners as well as the Travel Award winners. Congratulations to all of you and best wishes for your future endeavors!

Oral Presentations

First Place: Marc Toso (not pictured)
School of Biological Sciences, Washington State University for his presentation "Analysis of *Gregarines niphandrodes* mitochondria".

Second Place: Chanitchote Detvisitsakun, Division of Biology Molecular, Cellular, and Developmental Biology Program, Kansas State University, USA for her presentation titled "Stimulation of cell motility by a viral fibroblast growth factor homolog: Proposal for a role in viral pathogenesis". Also the winner of the Martignoni Award (see SIP Newsletter 38:3, p. 3), 'Am' plans to return to her native Thailand where she will be on faculty at Thammasat University.

Third Place: Kristen Knight, School of Integrative Biology, University of Queensland, St. Lucia, Australia for her presentation "A proactive approach to the use of fungal biopesticides to manage sucking insects in pulse crops in Australia".

Note: April 1 Deadline for
2006 Travel Award Applications!

Honorable Mention: Jayne Christen, Department of Entomology, Kansas State University, USA for her presentation "Infection preferences of an entomopathogenic nematode, *Steinernema riobrave*". Jayne finished her Master's degree involving entomopathogenic nematodes with Drs. Sonny Ramaswamy and James Campbell at Kansas State University in December 2005. Currently, she is working for Dr. James Campbell at USDA-ARS, Grain Marketing and Production Research Center as a Biological Science Aide. She plans to enter a Ph.D. program starting in Fall 2006.

Poster Presentations

First Place: Carolyn Lipke, Department of Bacteriology, University of Wisconsin, USA for her poster titled "*Xenorhabdus nematophila* secreted proteases and their role in insect pathogenesis". Carolyn is currently a fourth year graduate student in the Microbiology Doctoral Training Program working with Dr. Heidi Goodrich-Blair. She is interested in understanding how bacteria sense and respond to environmental changes.

Second Place: Xinyi Li, Department of Entomology, The Pennsylvania State University, USA for his poster "Infectivity of entomopathogenic nematodes and immune responses of their insect hosts". Li completed his doctoral degree in Entomology under the guidance of Dr. Diana L. Cox-Foster at the end of the summer of 2005. His research characterized the mechanisms underlying the species specificity between different strains of *Steinernema glaseri* and species of white grubs. He found that a surface coat protein from the nematode selectively inhibits the immune responses of different white grub species and performed a proteomic characterization of the protein. He is now working as post-doctoral researcher to sequence the gene encoding the immunosuppressive surface coat protein from *S. glaseri* and constructing a transgenic *Heterorhabditis bacteriophora*.

Third Place: Sales Ibiza-Palacios, Departamento de Genética, Universitat de València, Spain for her poster titled "A common, but complex, mode of resistance of *Plutella xylostella* to *Bacillus thuringiensis* toxins Cry1Ab and Cry1Ac". Sales is a Ph.D. student conducting research on the basis of resistance to *Bt* toxins in two insect species, diamondback moth (*Plutella xylostella*) and the silkworm (*Bombyx mori*). Currently, she combines the research with a technician position in the R&D Department in a Wood, Furniture and Packaging Technology Institute.

Honorable Mention: Lohitash Karumbaia, Department of Entomology, University of Georgia, USA, for his poster "Analysis of midgut proteinases from *Bacillus thuringiensis* susceptible and resistant *Heliothis virescens* (Lepidoptera: Noctuidae)". Lohitash is a 4th year Ph.D. student in Dr. Michael Adang's laboratory at the University of Georgia, Athens. He is studying midgut proteinases of the tobacco budworm *Heliothis virescens* and their contribution to resistance in this insect.

Division Travel Awards

Bacteria Division

Ruisheng An, Dept. Of Entomology, OARDC, The Ohio State University, USA for his presentation "Identification of genes transcribed by *Moraxella osloensis* in slug *Deroceras reticulatum* using selective capture of transcribed sequences". Ruisheng is studying the nematode-associated bacteria responsible for killing of important horticultural pest slugs with Dr. Parwinder Grewal.

Sarah C. Lee, Warwick HRI University of Warwick, UK for her presentation titled "The characterization of the structure of *Xenorhabdus* insecticidal toxin component XptA". Sarah's work presents the first structural analysis of a large (280kDa) toxin from *X. nematophila* with activity towards several lepidopteran larvae.

Fungi Division

Drauzio Rangel for his presentation "Environmental adaptation of *Metarhizium anisopliae* conidia: cross protection to UV-B radiation and heat, and virulence plasticity." Working with Ann Anderson and Don Roberts, Drauzio explores the effect of stresses (heat shock, nutritive, osmotic, and oxidative stress) on virulence and cross-protection of *Metarhizium anisopliae* conidia to heat and UV-B radiation, two sun-related stress factors affecting the fungus in the field.

Microbial Control Division

Robert Graham, NERC Centre for Ecology and Hydrology, Oxford, UK for his presentation "The role of viral pathogens in the regulation of lepidopteran host populations: the winter moth and its natural enemies". Robert studies the community ecology of the lepidopteran system with particular emphasis on the role of viral pathogens in regulating host populations and the relationships of viruses with parasitoids.

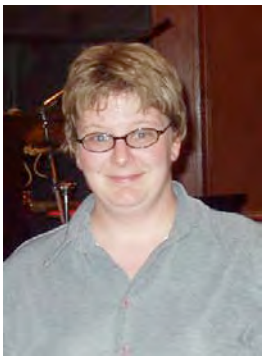
Emma Ormond, Anglia Polytechnic University, UK, for her presentation titled "Interactions between over-wintering seven spot ladybirds (*Coccinella septempunctata*) and the entomopathogenic fungus *Beauveria bassiana*: the 12 buckets". Emma is currently continuing her work with Dr. Helen Roy. She would like to contribute to the field of sustainable pest control and further develop her expertise in the field of insect ecology.

Ruth Plymale, Pennsylvania State University, USA, for her presentation "Impact of the peritrophic matrix on baculoviral pathogenesis in a tritrophic system". Under the guidance of Dr. Kelli Hoover, Ruth investigates the suppression of baculoviral mortality by ingested cotton foliage in larval *Heliothis virescens*. She plans to teach and conduct research in a small

university to share the whole of biology with her students.

Microspordia Division

H. Elizabeth (Beth) McClymont, University of Leeds, UK, for her presentation titled "Microsporidian parasites in freshwater snails". Elizabeth is working to determine the diversity and abundance of microsporidia in freshwater snails and to describe any new species that she discovers. In addition, she is interested in studying the impact of the microsporidia on their molluscan hosts. Her goal is to continue her work in parasite ecology and evolution.



Christina S. Campbell for her presentation "Transmission of *Nosema fumiferanae* in spruce budworm populations". Christina studies at the University of Toronto, Canada under Drs. Sandy Smith and Kees VanFrankenhuyzen. She is interested in the evolution of virulence, as well as tritrophic interactions of herbivores, their natural enemies, and the plant hosts. Her future goals are to study invertebrate pathology from a broad discipline approach.

Nematode Division

Fabienne Vigneux, Montpellier University, France, for her presentation titled "The hemolysin alpha-xenorhabdolysin secreted by pathogenic enterobacteria belongs to a new family of cytotoxins and triggers apoptosis". Fabienne is interested in the study of the action of a bacterial pore-forming cytotoxin, the alpha-Xenorhabdolysin (alphaX), on insect haemocytes. Her future work will address studies of expression regulation of alphaX as well as the knowledge of the pathway leading to haemocyte apoptosis.

Virus Division

Jondavid de Jong, University of Guelph, Ontario, Canada, for his presentation "Analysis of the immediate early me53 gene from the baculovirus AcMNPV". Jondavid studies with Dr. Peter Krell to investigate early molecular events in baculovirus infection of insect cells. He is specifically looking at genes encoded by the virus that are involved in the inhibition of apoptosis. He would like to stay in the field of molecular virology in academia, industry or government.

Elizabeth Kemp, University of Reading, Warwick, UK/Warwick HRI, for her presentation titled "Deletion of a metalloprotease gene from the *Cydia pomonella* granulovirus genome". Elizabeth is studying three NPV and GV genes involved in host liquifaction, and is also interested in the effect of liquefaction on the rate of transmission of *Autographa californica* NPV in *Plutella xylostella* and *Heliothis virescens*. After graduation, she would like to continue her studies on baculovirus biology.

FROM THE PRESIDENT

This is my first address to the membership of the Society for Invertebrate Pathology in 2006 and I would like to take the opportunity to wish you all a happy New Year. This is even timelier for our Chinese colleague's hosts of SIP2006, who celebrated the Chinese New Year at the end of

January. This is the year of the International Colloquium of Invertebrate Pathology and Microbial Control, the Olympics of the Society. Every fourth year the international colloquium is held to highlight developments of our science for a wider audience. I visited Wuhan in October 2005 and the organizers are excited to host the Society at the end of August 2006. It is the second time the Society meets in Asia and it is a good opportunity for the members and future members to meet with our colleagues in that part of the world. It is also a golden opportunity for the Society to reach out to many our young Chinese colleagues.

Although somewhat late in the day, I would like to thank the organizers of the SIP meeting in Anchorage in 2005 for their efforts in putting together such a wonderful meeting in a really stunning environment. Kelli Hoover and Diana Cox-Foster did a superb job as local arrangement committee and Bryony Bonning mastered the programming as if it was her daily job. The whole arrangement really was a 'once-in-a-lifetime' experience. The research progress was notable and it was nice to see so many young and enthusiastic students, despite the high travel costs. It was a great pleasure to hand out the awards on behalf of the Society to so many outstanding students for their excellent oral and poster presentations.

In January, the Council had their annual midterm telephone conference meeting to solve immediate problems, to identify items for the 'still to do list' and address new issues. Contact with the local organizing committee in Wuhan was part of the agenda and we were updated on the progress. The program is taking shape, organizers of divisional symposia are busy in cont(r)acting speakers and the deadline for submission of abstracts is approaching. I had the privilege to be in Wuhan at the end of October 2005 and to sample the excellent conference venue. Among the other items were a review of the awards system, publication and update of the Martignoni/Steinhaus glossary (supervised by David Onstad) and the review of the various meeting venues beyond 2006. By mentioning Steinhaus, it was sad to learn that Mrs. Mabry Steinhaus, wife of the founder and second president of the SIP, and affectionate to the Society's affairs, passed away in the autumn of 2005.

Communication is a very important aspect of the Society. Although our Newsletter and our Website are convenient conduits for exchange of information, we need the help of all our committees and members to provide both the website and the Newsletter with information. I also would encourage individuals just to chip in some news from their research or institute. Our website is usually the first mode of contact with the Society and its activities, so important enough to keep it in good shape. The membership is a major concern these days for any Society, but it is nice to see that the number of our Society has stabilized and is ready to take off again. Ray Akhurst and his membership committee did an excellent job to trace lapsed members and invite them to rejoin. This seems a successful strategy as many did respond. The majority of our membership increase should come from personal action of our members to ask others to join. You can always contact Ray or Peg Rotstein, our Executive Secretary, and ask them to approach potential members.

Societies cannot function and flourish if members do not volunteer for offices. Therefore, I am very grateful that we have again a strong slate of candidates for the next election of the Council. Wendy Gelernter is up for President and ready to take over the helm in August. She and her team deserve all the support from the membership.

I hope to see many of you all in Wuhan and I am looking forward to enjoy the further advances in invertebrate pathology and microbial control.

Just Vlak, President

ELECTIONS 2006-2008

The following candidates for election to SIP offices in 2006 were selected by the Nominations Committee and approved by Council. One nomination for honorary membership was received and will also be on the ballot. Ballots for this election will be mailed to members late March to be returned by mail by **May 01, 2006** as indicated on the ballot.

President

Dr. Wendy Gelernter

Education: 1976: B.S. in Agriculture, Cornell University; 1984: Ph.D. in Insect Pathology, University of California, Riverside. Thesis: "Isolation and identification, genetic variation and control potential of a nuclear polyhedrosis virus from the beet armyworm, *Spodoptera exigua*."

Experience: 1995–present: Owner and Research Director, PACE Consulting. PACE is an independent agricultural and environmental consulting company that provides applied research, pest management, agronomic, education and information services to the agricultural, turfgrass and horticultural industries. 1990–1995: Director of Biopesticide Commercial Development, Mycogen Corp.; 1985–1990: Product Manager for Bioinsecticides, Mycogen Corp.; 1984–1985: Research Scientist, Mycogen Corp.

Professional Activities: 2004 – 2006, Vice-President, SIP; 2001–2003, Chair SIP Microbial Control Division; 2000–2006: Chair, SIP Fundraising and Endowment Committee; 1999: Member, SIP Audit Committee; 1998–2002: Chair, SIP Nominating Committee**;** 1994-1996: SIP Secretary**;** 1989–1993: Chair, SIP Membership Committee; 2000–2006: Editorial Board, Biocontrol Science and Technology; 1999–2000: Chair, Agricultural Biotechnology Task Force, National Alliance for Independent Crop Consultants; 1998–present: founding member, International Biopesticide Consortium for Development; 1996–2000: Association of Applied IPM Ecologists, Executive Board Member; 1996: Co-organizer, USDA national forum on insect resistance to

Bacillus thuringiensis; 1994–1995: Chair, Insect Pathology subsection, Entomological Society of America; 1994: IPM Innovators Award, California Environmental Protection Agency; 1993–1994: Board of Reviewing Editors, Journal of Economic Entomology; 1991–1995: Member, Bt Resistance Management Working Group

Memberships: Society for Invertebrate Pathology, Entomological Society of America, National Alliance of Independent Crop Consultants, National Association of Science Writers, Association of Applied IPM Ecologists, Crop Science Society of America.

Interests: Microbial control of scarabs, development and commercialization of microbial pesticides, biopesticides in the developing world, Bt resistance management

SIP is unique among scientific societies. Yes, it is true that we offer many of the benefits that scientists have come to expect from their professional organizations, including high quality annual meetings, a useful and informative website, an excellent newsletter, access to special publications, and reduced rates on key journals. But SIP is unique in offering even more – a supportive and cooperative community that values the broad spectrum of the disciplines it encompasses as much as it does the diversity of its membership. Our annual meetings serve the dual purpose of advancing scientific knowledge in invertebrate pathology, while at the same time promoting international collaboration, and reinforcing friendships.

I felt for some time that there are too few people benefiting from what SIP has to offer. Our membership rolls have been stagnant over the past several years. And while our meetings are extremely well attended, the high cost of travel makes it difficult for many scientists and their students to attend on a regular basis. SIP needs to grow a bit, and I believe that this growth can be accomplished without sacrificing the warm and personal nature that so uniquely characterizes our Society. Possible approaches towards this goal include expanded efforts to publicize our annual meetings and to implement membership drives, especially in those regions where future annual meetings are planned. Further student involvement in SIP needs to be encouraged via awards, travel grants, and consideration of a greater role for students in Society affairs. Additional travel grants for scientists who have financial difficulty in attending the meetings should also be explored. Concerted efforts to broaden our fund-raising appeals and to focus member's volunteer efforts on these activities should make it possible to bring the benefits of SIP to a larger audience.

Nominees for Vice President

Dr. Mark Goettel

Education: 1975: B.Sc. in Biology, Concordia University
1977 M.Sc. in Insect Ecophysiology, University of Ottawa
1987: Ph.D. in Insect Pathology, University of Alberta.
Experience: 1988 - Present: Research Scientist, Insect Pathology, Agriculture and Agri-food Canada, Lethbridge Research Centre; 1987 - 1988: NSERC Postdoctoral Fellow, Insect Pathology Resource Centre, Boyce Thompson Institute, Cornell University; 1978 - 81: Research Entomologist, Dept. of Health, Suva, Fiji.

Interests Microbial control of insect pests, development and commercialization of microbial control agents, safety and registration of microbials and more specifically, regulatory requirements and their impact of microbial control.

Professional Activities: 1996 - present: Adjunct Professor, Simon Fraser University; 2001 - present: Editor-in-Chief, Biocontrol Science and Technology; 1996- present: Member, Editorial Board, Biological Control; 2001 - 2002: Member, Board of Directors, The Biocontrol Network;
1999: Member, Organizing Committee, International Symposium, Biological Control Agents in Crop & Animal Protection, University of Wales, Swansea; 1999 - 2004: Chair, Bylaws, Rules and Regulations Committee, Entomological Society of Canada; 1998: Member, Organizing Committee, British Mycological Society Symposium, The Future of Fungi in the Control of Pests, Weeds and Diseases, Southampton, United Kingdom; 1997 - 2000: Director-at-Large, Entomological Society of Canada; 1996: Member, Scientific Program Subcommittee of the Organizing Committee, International Organization for Biological Control International Conference, "Technology Transfer in Biological Control: From Research to Practice", Montpellier, France; 1997/98: President, Entomological Society of Alberta; 1993 - 95: President, Canadian Forum for Biological Control; 1991-93: Secretary, Entomological Society of Alberta; 1991: Chairman, Working Group on LRS Regional Biocontrol Centre Proposal; 1991-92: Member, LRS Biocontrol Centre Committee; 1991 - 95: Chairman, Professional Institute of the Public Service of Canada, Research Scientist Lethbridge Subgroup; 1990 - 95: Member, PIPSC-Management Consultative Committee.

Memberships Society for Invertebrate Pathology, Entomological Societies of Canada and Alberta, International Organization for Biological Control, Canadian Forum for Biological Control, The Canadian Biocontrol Network

Service to SIP Member of the Society since 1983; Member of Divisions on Microbial Control and Fungi; 2001 - present: Chair, SIP Meetings Committee; 1997: Chair, SIP Local Meeting Arrangements Committee, Banff 1997; 1991 - 93: Assistant Editor, SIP Newsletter; 1993 - 2001 Editor, SIP Newsletter; 1994 - 98: SIP Trustee; 1993: Chair, Safety Publications Subcommittee; 1989-91: Chairman, SIP, Division on Microbial Control, past-chair, 91-93; 1985/86: Member, SIP New Initiatives Committee.

Dr. Jorge Ibarra

EDUCATION: B.Sc. in Biology at Universidad A. de Nuevo León (Mexico) (1976); M.Sc. (Hons.) in Entomology at Colegio Superior de Agricultura Tropical, (Mexico) (1978); Ph.D. in Entomology at the University of California, Riverside (USA) (1986), with emphasis on Insect Pathology and

Molecular Biology. Recipient of the Harry S. Smith Award, 1985 (UCR).

EXPERIENCE: Lab Assistant (UANL, 1973-1974), Lab Instructor (UANL, 1974-1975, 1977-1978), Professor (UANL, assist., assoc., full, 1978-1983); Head of the General Biology Lab (UANL, 1979-1982); Research Assistant (UCR, 1982-1986); Postdoctoral Research Assistant (UCR, 1986); Full-time professor (CINVESTAV-México, since 1986); Chairman of the Department of Biotechnology and Biochemistry (CINVESTAV, 1996-1999); Sabbatical leave (Chercheur-stagiaire) (Institut Pasteur-Paris, 1999, hosted by A. Delecluse).

PROFESSIONAL ACTIVITIES: Editorial board, Biological Control (1994-2000). Editorial board, Biopesticides International (since 2004). Reviewer for: Journal of Invertebrate Pathology (1996-2005), Biological Control (2002-2005), BioControl (2005), Bio Techniques (2001-2003), FEMS Microbiology Letters (2003-2004), FEMS Microbiology Ecology (2003), Australian Journal of Experimental Agriculture (2004), In Vitro Cellular & Developmental Biology- Plant (2005), BMC Microbiology (2005), Manejo Integrado de Plagas y Agroecología (Costa Rica) (2003-2005), Vedalia (Mexico) (1993-2004) and seven more local journals. Chairman of the organizing committee for the 33rd Annual Meeting of the Society for Invertebrate Pathology (2000). Organizer of three Latin American Courses on Insect Microbial Control (Mexico, 1991, 1993 and Argentina, 1996). Member of three organizing committees for three national meetings. Invited speaker (international): Ithaca, NY (1988), Palo Alto, CA (1991), China (1992), Peru (1998), Chile (1998), Spain (1999), Bolivia (2001), Chile (2003). Twenty years promoting the use of insect pathogens as biological control agents in Latin America, as well as the use of genetically modified entomopathogens and plants, through courses, talks, collaborations, and student trainings, in Mexico, Cuba, Costa Rica, Venezuela, Colombia, Peru, Bolivia, Chile, Argentina, and Brazil.

MEMBERSHIPS: Society for Invertebrate Pathology: Since 1984; member of the membership committee (1994-2003); trustee (1996-2000). Entomological Society of America: Since 1983; member of the membership committee for the Southwestern branch (1992-1994). Sigma Xi, The Scientific Research Society: Since 1985. Sociedad Mexicana de Control Biológico: Since 1991 (Founding member); Trustee for the Central Region (1991-1993); Vice-President (1995-1997 and 2005-2007); Sociedad Mexicana de Entomología: Trustee for the Central Region (1995-1997). Regular member of the Mexican Academy of Science: Since 1998. Member of the National System of Scientists (Mexico): Since 1986, currently at level III (the highest).

INTERESTS: Thirty-two years working in Entomology and 25 years working with *Bacillus thuringiensis* and other entomopathogens. Most work done on the selection and characterization of native strains of *B. thuringiensis* and other entomopathogens, as well as on their diversity, detected through molecular tools. Search for new activities of *B. thuringiensis* strains. Development of recombinant baculovirus and cyanobacteria to increase or develop virulence to insects. Development of commercial formulations of entomopathogenic fungi. Use of entomopathogenic nematodes to control tropical fruit flies.

Nominees for Secretary

Dr. Jenny Cory

Education: B.Sc. (Hons) 1979, University of Sheffield, UK.
D.Phil. 1984, Oxford University, UK. "Aspects of the ecology of ground and rove beetles as related to their pest control potential".

Experience: 1984 – 2003. Higher, Senior and Principal Scientific Officer, Natural Environment Research Council (NERC), Institute of Virology, Oxford UK (later the Institute of Virology and Environmental Microbiology and then the Centre for Ecology and Hydrology, Oxford). Group leader, 'Molecular Ecology and Biocontrol', then (from

2000): Division leader, 'Molecular Pathogen Ecology'. 1998-1999, visiting scientist, Department of Zoology, University of British Columbia, Canada (host Judy Myers). 2004, visiting fellowship, Department of Virology, Wageningen University (host: Just Vlak).
2005 – current. Canada Research Chair (Tier I) 'Molecular ecology of insects and their viral pathogens'. Professor of Biology, Algoma University College (Laurentian University): visiting scientist Great Lakes Forestry Centre, Sault Sainte Marie, Ontario, Canada.

Memberships:
Society for Invertebrate Pathology, 1986 to present.
British Ecological Society, 1981 – present.
Royal Entomological Society, 1981 – present.
Ecological Society of America, 1999 – present.
Entomological Society of America, 1999 - present.
Society for the Study of Evolution, 1999 - present.
Association of Applied Biologists 1981-1998.

Professional activities:
Editorial board, Journal of Invertebrate Pathology, Jan. 2000 - present.
Editorial board, Biological Control, April 2000-2004 and 2005 - present.
Member, baculovirus study group, International Committee on the Taxonomy of Viruses, 2005 – present.
Chair, Biocontrol of pests and diseases and risk assessment of GMOs. NERC/CEH Core Science programme 6, 1995-2000.
NERC Panel II promotion board (higher scientific officer to senior scientific officer) 2000-2003.
Trustee, Society for Invertebrate Pathology, July 1996-July 2000.
Advisor CEN233/WG3 Drafting monitoring and guidance standards for release of genetically modified baculoviruses. (European Community) 1995-1998.
Working Group on monitoring genetically modified microorganisms, Advisory Committee for Releases into the Environment (ACRE) (UK) 1994-1998.
Organizer, Symposium on 'Insect Virus Ecology', Society for Invertebrate Pathology, Mexico, August 2000.
Co-organizer, Symposium on the 'Ecology of Genetically Modified Organisms', INTECOL, Florence, July 1998.
Organizing Committee, BCPC conference, 'Microbial Insecticides: novelty or necessity'. Warwick, April 1997.
Co-organizer of first international conference on *Bacillus thuringiensis*, Oxford, July 1991 (and co-editor of resulting book).

Interests: Ecology and evolution of insect viruses and their hosts. Host resistance and pathogen virulence. Heterogeneity in insect-pathogen systems. Multitrophic interactions involving entomopathogens. Insect ecology and the application of ecological theory to pest control in forestry and agriculture using pathogens. Interactions between biological control agents. Ecological risk assessment of novel pest control agents.

Dr. Andreas Linde

Education:
Diploma (Biology) 1987, University of Bonn, Germany; Ph.D. (Zoology, Entomology) 1990, University of Bonn; Doctoral Thesis: "*The invasion mechanism of entomopathogenic microsporidia*".

Memberships:
I joined the Society for Invertebrate Pathology in 1990, and since then I have missed only one meeting (Spain, 1996). SIP meetings are an inspiration and stimulation for my work - and a meeting of friends, too. Besides SIP, I am member of the Society for Protozoology (1995–present), the German Society for General and Applied Entomology (1987-present), the Organization for Tropical Studies (1995-present), and the German Society for Parasitology (1990-present).

Professional Activities:
In the German Soc. for Gen. and Appl. Entomology I serve as Vice Trustee (2000-present) and Vice Chair of the Division on Insect Microbials.
Besides being an invited reviewer for several journals, I am member of the Editorial Board of Biocontrol Science and Technology (2001-present).

In the SIP, I served as Vice Chair and Chair of the Microsporidia Division (1997-2000), and as member of the Awards and Student Contest Committee (2001-present). Since 2005, I am also member of the Membership Committee.
At home, I served as Dean of the Faculty of Forestry of the University of Applied Sciences at Eberswalde (2003-2005) and as a permanent member of the Scholarship Selection Committee of the Foundation of the German People (1998-present).

Professional Experience:
-Internship ICIPE Nairobi /Kenya (1984): Assistance in research projects on *Phlebotomus* sp. as vectors for Cala Azar; Research on the natural antagonists (parasitoids, microbials) of stem borers.
-Teaching Assistant (Entomology / Parasitology) University of Bonn (1985-1987): Medical Entomology; Antagonists of *Plutella xylostella*, first contact with microsporidia.
-Research Assistant (Entomology) University of Bonn (1988-1990): Project on the invasion mechanism of microsporidia and the interaction with the host insect on the cellular level.
-Assistant Professor (Zoology, Forest Entomology) University of Munich (1991-1994): Research work on the use of microbials (*B.t.k.*, microsporidia) for the control of forest insects and on the tri-trophic interactions (plant-insect-pathogen).
-Full Professor (Applied Ecology) University of Applied Sciences Eberswalde (1994-present)
-Research work on the microsporidia of *Lymantria dispar*; Taxonomic studies (electron microscopy), ecological studies (interaction with the host, transmission); research on invertebrates (e.g. carabid beetles) as indicators for the status of forest ecosystems.
-Visiting Professor at the University of Illinois and the Illinois Natural History Survey in Champaign-Urbana (multiple visits since 1995), and a Visiting Scientist to the USDA Forest Service (multiple visits since 1996) and the Connecticut Agricultural Experiment Station.
-Since 1995, a joint project on the microsporidia of *Lymantria dispar* (gypsy moth) allowed me to work with several partner institutions in Austria, Czech and Slovak Republic, Poland, Georgia, Kyrgyzstan, and Bulgaria. I regard the scientific exchange (e.g. visiting scientists in my lab) with these countries as very important.

Interests:
My research field is applied ecology and spans the field of biological control, in particular research on Microsporidia, and population ecology. I started to work in insect pathology in 1985, when I investigated virus und protozoa of an agricultural pest, *Plutella xylostella*. In 1991, I moved to the Department of Forestry to work on tri-trophic interactions of forest pest insects, allelochemicals, and pathogens (virus, *B.t.,* microsporidia). My recent work concentrates on the interaction of pathogens with forest insects. The aim of my work is to use this knowledge for the regulation of insect populations. The idea is to reduce the number of insects, but not eradicate them. This is the core of our long-term joint project with the USDA Forest Service and the Illinois Natural History Survey and our European partners.

Besides the research on microbial insect antagonists, I investigate the interaction of insects with host plants. Furthermore, I try to establish a system for predatory insects (carabid beetles) as indicators for the functionality and naturalness of forest ecosystems.

Nominees for Treasurer

Dr. James (Jimmy) Becnel

Education: 1976, B.S. Biology, Tulane University, New Orleans, LA; 1981, M.S. Zoology, McNeese State University, Lake Charles, LA; 1989, Ph.D. Medical Entomology, University of Florida, Gainesville, FL.

Research Experience: 1991-present: Lead Scientist and Research Entomologist, USDA, ARS, Gainesville, FL; 1985-1991: Microbiologist, USDA, ARS, Gainesville, FL; 1981-1985: Microbiologist, USDA, ARS, Lake Charles, LA.

Memberships: Society for Invertebrate Pathology 1981 to present; Society of Protozoology, 1981-present; Entomological Society of America, 1991 to present; American Mosquito Control Association, 1981 to present; Florida Mosquito Control Association, 1995 to present.

Professional Activities: A member since 1981, Dr. Becnel continues to be actively involved in the Society for Invertebrate Pathology. He has served as Chair and Vice Chair for the Division on Microsporidia for several terms and Chaired the Membership Committee from 1998-2004. He is also a member of the Division on Viruses and the Microbial Control Division. He was chosen as the Society's Founders' Lecturer for 2005 and presented a talk titled "Expanding Frontiers for Microsporidia: A Tribute to Professor Elizabeth U. Canning" at the 38th Annual Meeting of the Society for Invertebrate Pathology, Anchorage, Alaska. He has served several terms as a member of the editorial board of the *Journal of Eukaryotic Microbiology* and has been an Associate Editor for the *Journal of Invertebrate Pathology* since 2002. In his capacity as a courtesy associate professor at the University of Florida, he has served as an advisor for a number of MS and PhD students in various areas of invertebrate pathology or related fields. He has also pursued collaborative projects at several international laboratories particularly in Argentina and Brazil.

Dr. Becnel is currently a Research Entomologist in the USDA/ARS Mosquito and Fly Research Unit in Gainesville, Florida. His research has involved the fields of Medical Entomology and Invertebrate Pathology including microsporidiology, virology, and protistology. He has presented numerous national and international lectures on a broad range of topics related to invertebrate pathology and microbial control of mosquitoes. He has also participated in several Latin American courses and workshops on microbial control of insects in Mexico, Argentina and Brazil. He has published some 100 technical publications on a diverse range of topics in invertebrate pathology, and has authored or co-authored several chapters on microsporidia and viruses including "Microsporidia in Insects" in the book *Microsporidia and Microsporidiosis.*

Dr. John Vandenberg

Education: B. S. (with Honors; Natural Resources) 1975, University of Michigan; M. S. (Entomology) 1977, University of Maine; Ph. D. (Entomology) 1982, Oregon State University. Doctoral Thesis: "Etiology and pathogenesis of chalkbrood in the alfalfa leafcutting bee, *Megachile rotundata*."

Experience: Postdoctoral Research Associate, Boyce Thompson Institute, Ithaca, NY, 1982; Research Entomologist, USDA-ARS, Beltsville, MD 1983-1987; Supervisory Research Entomologist and Research Leader, USDA-ARS, Bee Biology & Systematics Laboratory, Logan, UT 1987-1993; Research Entomologist and Lead Scientist, USDA-ARS, Ithaca, NY 1993-present; Adjunct Professor of Entomology, Cornell University, 1994-present.

Membership and Professional Activities: Associate Editor, Journal of Invertebrate Pathology 2001-present. Co-Editor, Biological Control 2004-present. Society for Invertebrate Pathology 1976-present; Member, Fungus Division and Microbial Control Division; Nominating Committee, 1989-1991; Program Chair, Annual Meeting, 1995; Secretary-Treasurer, Chair-Elect, Chair and Past Chair, Microbial Control Division, 1993-2001; Symposium and Workshop Organizer, several times; New Initiatives Committee, 1994-1996; Chair, By-Laws Committee, 1995-1999; Database and Web Site Committee, 1998-2000; Annual Meeting Program Committee, 1999; Founders Lecture Committee, 2001-present; Faculty Advisor, Student Affairs Committee, 2003-2005; Trustee, 2002-present. Entomological Society of America 1976-present; Graduate Student Committee, 1976-

1977; Nominee, Secretary-Elect, Section C, 1997; Judge, Student Presentations, 1997, 1999-2001; Recognition Awards Committee, Eastern Branch, 1998; Symposium Organizer, Joint Meeting with Amer. Phytopath. Soc., 1998; Secretary, Chair-Elect and Chair, Subsection Ce (Insect Pathology and Microbial Control), 1998-2001; Symposium Organizer, Joint Meeting with Canadian Ent. Soc., 2000. Sigma Xi 1977-present; Secretary, Vice-President and President, Utah State University Chapter, 1989-1992. Member, American Association for the Advancement of Science, 1997-present; International Organization for Biological Control, 1994-present.

Interests: General insect pathology with a current emphasis on fungal pathogens of insect pests. Virulence factors and pathogenicity mechanisms for fungal insect pathogens. Integration of fungi into management schemes for insect pests of agricultural crops. Diseases and pests of bees.

Nominees for Trustee

Dr. Jørgen Eilenberg

Education: MSc 1981, The Royal Veterinary and Agricultural University (KVL), Copenhagen, Denmark
PhD 1985, KVL. Thesis title: 'Relationships between the carrot fly (*Psila rosae* F.), and its fungal pathogens from Entomophthorales, particularly *Entomophthora muscae* (C.) Fres.'
DSc 2002, KVL. Thesis title: 'Biology of fungi from the order Entomophthorales – with emphasis on the genera *Entomophthora*, *Strongwellsea* and *Eryniopsis*'

Experience: 1985-1989: Assistant professor, KVL.
1989-1990: Senior biologist, The National Environmental Research Institute, Denmark
1990-2002: Associate professor, KVL
2003-present: Full professor, KVL

Professional activities: Heading a number of research programmes on insect pathogenic fungi and bacteria since 1982
Responsible for development of teaching, education and dissemination of biological control of insects at KVL,1988-present
Supervisor of a number of PhD, MSc and BSc students, 1988-present
Consultant, NOVO-Nordisk 1989.
Chair of 'First Danish Seminar on Insect Pathology and Microbial Control', 1992
Member of board, 'The Danish Society for Pests and Plant Diseases', 1993-2001
Member of board, 'The Centre of Agricultural Biodiversity', 1993-1997
Member of a number of steering committees for research programmes granted from the Danish Ministries, 1996-
Member at Large, SIP, 1996-1998
Local organiser, IOBC meeting in working Group: 'Insect Pathogens and Insect Parasitic Nematodes', Copenhagen 1997
Member of the European BIPESCO consortium, 1999 -
Management Committee Member and head of Work Package, EU COST Action 842 about Entomophthorales, 1999-2005
Chair of Danish part in 'Sino-Danish Co-operation on Microbiological Control', 1999-2005.
Chair of 'Danish Centre for Biological Control', established 2003
Elected member of Academic Council, KVL, 2004-2007
Scientific chair, SIP Annual Meeting 2004, Helsinki, Finland
Editorial board, 'Biological control', 2004-
Chair of Fungus Division, SIP, 2004-2006
Re-appointed as member of the 'National Board of Environmental Claims', 2005
Member of board of the national research centre of excellence 'The Centre for Social Evolution', established 2005

Memberships: Society for Invertebrate Pathology, The Danish Mycological Society, The Danish Society for Pests and Plant Diseases, The Danish Entomological Society, The Danish Pasteur Society, The Danish Microbiological Society

Interest: My research interest is insect pathogenic fungi and bacteria. The main key words for the research performed by my team are: natural ecology, host-pathogen interactions, and use in practical biocontrol. Entomophthoralean fungi, *Beauveria* and *Metarhizium* etc, and also *Bacillus thuringiensis* are studied from that perspective, using a steadily increasing set of molecular methods in combination with more traditional insect pathology and entomological methods. This year we further initiated research on diseases of bees. I have been involved in a broad range of fundamental studies: taxonomic descriptions of new species, characterization of isolates, prevalence studies, studies on host behaviour. On the applied side I have been involved in pest control programmes applying insect pathogenic fungi in various eco-systems, for example: thrips in glasshouses, weevils in greeneries, scarabs in Christmas trees and golf courses. I am heavily involved in national efforts to lower the use of chemical pesticides and replace with biologicals, and as a part of that interest I initiated 'Danish Centre for Biological Control', a national network including the major teams working with biological control. One challenge is to explore future possibilities to use insect pathogens on the increasing areas subjected to organic farming. Over the years it has been my privilege to work with very good and dedicated Ph.D. students and post-docs, who ensure a fine team spirit in my laboratory and we interact with many teams worldwide. Invertebrate pathology science should be ambitious, challenging and fun!

SIP: I attended my first SIP meeting in 1982, Brighton. What struck me was the friendly and warm attitude to me as a student, who for the first time joined an international conference. I appreciated this attitude very much and have since with pleasure attended SIP meeting, whenever time and (especially!) money allows. In the later years I have been able to 'pay back' a bit to SIP by taking various responsibilities. I will do my best as a trustee to ensure that SIP will still be superior with respects to its scientific disciplines. SIP members have a lot to offer the world with our unique understanding of host-pathogen interactions at many levels, ranging from fundamental studies at the molecular level to applied science in co-operation with private enterprises. Maintenance of the involvement of young people is essential and our society is doing right in setting up support for student (from all parts of the world) participation in the activities and stimulating them to present their studies for an international audience.

Dr. Zhihong Hu (Rose)

Dr. Zhihong Hu (Rose) received her B.Sc. degree in Virology and Molecular Biology in 1986 from Wuhan University, China and a M.Sc. degree in Virology in 1989 from the Wuhan Institute of Virology (WIV) of the Chinese Academy of Sciences (CAS). Thereafter, she became a member of the WIV staff conducting research on insect viruses. In 1993 she was awarded the Mme. Marie Curie fellowship to carry out research on the molecular biology of insect viruses at the department of Virology, Wageningen Agricultural University in the Netherlands with Dr. Just M. Vlak. Later she obtained a sandwich fellowship from the University to pursue her Doctorate program on the "Characterization of *Buzura suppressaria* single nucleocapsid nucleopolyhedrovirus genome" and graduated in 1998. She became a professor at the WIV and later (2000) she was appointed Director of the Institute. During her tenure as a Director, the research programs of WIV expanded to cover research on insect viruses, HIV, SARS corona virus, influenza virus, hepatitis viruses (HBV & HCV), and tumor virology. Her present research on insect virology focuses mainly on the molecular biology of baculoviruses, especially the *Helicoverpa armigera* NPV (HearNPV), which has been widely used in China to control the cotton bollworm. The genome of HearNPV was fully sequenced and, presently, her lab is concentrating on the functional genomic of HearNPV. Her research interests also include understanding the molecular mechanisms of NPV infection and the use of the generated knowledge to improve viral properties in biocontrol programs. Several recombinant HearNPVs with enhanced

insecticidal properties have been constructed in her lab and tested in the field against the cotton bollworm. Rose has been an active SIP member since 1996 and is now the Scientific Program Chair of the 39th annual meeting of the SIP that will be held in Wuhan in August 27-September 1, 2006.

Dr. Yasuhisa Kunimi

Education: B.Sc. in Agricultural Science, 1973. Department of Sericultural Science, Tokyo University of Agriculture and Technology, Tokyo, Japan. Ph.D. in Agricultural Science, 1985. Faculty of Agriculture, Tokyo University, Japan. Thesis title: Epizootiological studies on a nuclear polyhedrosis of the mulberry tiger moth, *Spilosoma imparilis* Butler (Lepidoptera: Arctiidae).
Experience: 1974-1976: Regional Tsetse Officer, Ministry of Agriculture, West Lake Region, Tanzanian; 1977-1987: Research Officer, Tokyo Metropolitan Sericultural Center, Tokyo, Japan; 1987 to present: Assistant Professor, Associate Professor and Professor of Biological Control, Tokyo University of Agriculture and Technology, Tokyo, Japan; 2001 to present: Dean of the United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, Tokyo, Japan; 1994-1995: Visiting Scientist, Department of Entomology, Louisiana State University, LA, USA (host: Jim R. Fuxa).
Memberships: Society for Invertebrate Pathology, Japanese Society of Applied Entomology and Zoology, The Ecological Society of Japan, The Society of Population Ecology, The Japanese Society of Sericultural Science, The Arachnological Society of Japan, Japanese Society for Insect Pathology, Society of Evolutional Studies, Japan.
Professional Activities: 2002-2003: Member-at-large of the Microbial Control Division, SIP; 2002 to present: Member, SIP Membership Committee; 1991-1994: Secretary General, Japanese Society of Applied Entomology and Zoology (JSAPZ); 1995 to present: JSAPZ Trustee; 1997-1998, 2001-2002: Editorial Board, Applied Entomology and Zoology; 2005 to present: JSAPZ Vice President; 1988-1991: Editor, Atypus (Arachnological Society of Japan: ASC); 1991-2002: ASC Trustee; 1998 to present: Editorial Board, Journal of Insect Biotechnology and Sericology; 1991-2005: Trustee, Japanese Society for Insect Pathology; 2005 to present: Trustee, Association of Japanese Agricultural Scientific Societies; 2005 to present: President, Japanese Society for International Center of Insect Physiology and Ecology
Interests: Host-parasitoid-virus interactions in insects. Epizootiology of viral diseases in insect populations. The development and use of viral pesticides to control lepidopteran pests. Education in biological control.

Dr. Jean Nguya K. Maniania

Education: B.Sc. (1971) in Natural Sciences and Geography, Institut Pédagogique National (IPN), Kinshasa, Democratic Republic of Congo; M.Sc. (1974) in Biology, IPN, Université Nationale du Zaïre; Diplôme d'Etudes Approfondies (DEA) in Entomology, 1980, Université Paris VI (Pierre and Marie Curie), France; Doctorat 3ème cycle (1983) with major in insect pathology, Université Paris VI; Doctorat de l'Université Paris VI (1991) with major in insect pathology, Université Paris VI.

Experience: Resident Fellow, INRA, La Minière, France, 1984-1985; Research Associate, European Parasite Laboratory (EPL)/USDA/ARS, Paris, France, 1985-1987; Research Scientist, International Centre of Insect Physiology and Ecology (ICIPE), Kenya, 1989-present; lecturer in insect pathology, African Regional Postgraduate in Insect Science (Ph.D. degree), ICIPE, 1989-1995; Head of Entomopathology Unit, 1999-present.

Memberships: Society of Invertebrate Pathology, 1986-present; member of endowment committee, 1997-1999; member of endowment committee and student awards committee, 2000; member at large, microbial division, 1999-2000; member of student awards committee, 2001-present; New York Academy of Science; African Association of Insect Scientists, served as treasurer from 1989-1997; Entomological Society of Ontario.

Interests: Bioprospecting for entomopathogens, microbial control of insect pests and disease vectors, interactions insect/plant/pathogen, delivery systems for pathogens.

Nominee for Honorary Member

Dr. Robert Granados

Dr. Robert R. Granados graduated from the University of California, Davis with a BS degree (*Cum Laude)* in Entomology and received the outstanding undergraduate award from the Entomology Department in 1960. After graduating from UC Davis, Dr. Granados continued his graduate education at the University of Wisconsin in Madison, receiving his Ph.D. degree in 1964. Since 1964, he has been working at the Boyce Thompson Institute where he has conducted research in the area of insect pathology with particular emphasis in insect virology and insect tissue culture. He rose quickly through the ranks and in 1992 was selected to be the Charles E. Palm Distinguished Scientist and Virologist at the Boyce Thompson Institute. Although he retired in 2002, he remains very active at the Institute.

During his illustrious career, Dr. Granados has published more than 135 publications in highly regarded journals, has edited three books, has over 40 patents issued or pending (his patented cell line "High Five" will have major impact in medicine), has been involved in many leadership positions in national and international scientific societies, has received numerous awards from scientific organizations, and has served on scientific advisory boards for industry and government panels. His awards include being elected as a Fellow in the Entomological Society of America, the American Society of Microbiology, and the American Association for the Advancement of Science. He has received the Norvatis Recognition Award in Entomology, the L. O. Howard Distinguished Achievement ESA Award, and the Award of Distinction from the College of Agricultural and Environmental Sciences, University of California, Davis and was the Founders' Lecturer honoring Lois Miller at the 36th Annual Meeting of SIP in Burlington, Vermont.

He has mentored numerous graduate students, postdoctoral fellows, and visiting scientists and has been a positive role model for these individuals. Moreover, he has served on editorial boards for a number of leading journals in his field and is active in community service such as in the Society for the Advancement of Chicanos and Native Americans in Science.

Dr. Granados has served the Society for Invertebrate Pathology well as an active member on committees and as an officer. His service to SIP includes Treasurer (1986-1988), Vice President (1992-1994), President (1996-1998), and Past President (1996-1998). His committee service includes being a member of the Program Committee (1983-1989), Founders' Lectureship Committee (1983-1991), Publications Committee (1986-1989), By-Laws Committee (1991-2003), Endowment Committee (1986-1993), Meeting Site

Committee (1990-1994), and Chair of the Nominations Committee (2002-2005). He has served in many other capacities for SIP. For his contributions in research, leadership in SIP, contributions to other scientific organizations, service to community organizations and scientific journals, and mentorship of scientists, his nomination as an Honorary Member is wholeheartedly supported by the Executive Council of SIP.

POSITIONS AVAILABLE

Insect Pathologist: Faculty Position. The Department of Entomology and Plant Pathology at The University of Tennessee, Knoxville seeks candidates for a 12-mo., tenure-track position in insect pathology. The successful candidate will establish a sustainable, grant driven, dynamic program in the application of insect pathology to applied pest problems. Demonstrated expertise and interest in invasive insects in North American ecosystems is required. Initial appointment will be 100% research with the opportunity to advise graduate students. Candidates should have a Ph.D. with graduate or postdoc experience in insect pathology. Evaluation begins Mar. 15, 2006. Details for application at: http://eppserver.ag.utk.edu/images/Position_Annouceme nt.pdf). The University of Tennessee is an EEO/AA/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment program and services.
Contact information for applicants:
Dr. Reid R. Gerhardt
Department of Entomology and Plant Pathology
2431 Center Dr.
205 Ellington Plant Sciences Building
University of Tennessee
Knoxville, TN 37996-4560
rgerhard@utk.edu
(865) 974-7956
FAX (865) 974-4744

Graduate student: Applications are invited to study for a Ph.D. degree in the School of Integrative Biology in the area of host-virus interactions. One school-funded scholarship is available. The Ph.D. candidate will use a combination of molecular genetic and invertebrate challenge model approaches to explore the molecular interactions of viruses with either a prawn or *Drosophila* host. Students with broad interests in virology, host-parasite interactions and vaccine development are encouraged to apply.

The scholarship is open to Australian Citizens and Permanent Residents who hold a Honours I or IIA degree in a relevant discipline. The scholarship is valued at $18,837 per annum tax-exempt. Non-Australian residents may apply but will incur tuition fees of approx. $26,000 per annum. For more information see the SIB website www.uq.edu.au/sib or contact:
Dr Karyn Johnson
School of Integrative Biology
University of Queensland
St Lucia, 4072, Australia
Email: karynj@uq.edu.au
Phone: +1 61 7 33651358
Webpage:
http://profiles.bacs.uq.edu.au/Karyn.Johnson.html

Postdoctoral fellowship and graduate student positions available immediately in the ecology and enhancement of insect viruses as effective and environmentally benign biological control agents against insect pests. There will be an opportunity for field and laboratory research and in both University and Government Institutions in both Sault Ste Marie and Guelph. For postdocs appointments in viral ecology contact Dr. Jenny Cory (Algoma University) at jenny.cory@algomau.ca; in viral expression of host genes contact Dr. Basil Arif (Great Lakes Forestry Research Centre) at barif@NRCan.gc.ca or in programming misexpression of viral genes contact Dr. Peter Krell (University of Guelph) at pkrell@uoguelph.ca. Postdoc fellowship applicants, with expertise in any of ecology, virology and molecular biology should provide a complete CV including educational background, a list of publications/communications, relevant research experience and the names and contact information from three individuals familiar with their research abilities. Potential students should provide an updated transcript and a written statement outlining their career aspirations and the reason for their interest in this program. Written applications can be sent to Dr. Peter Krell, Department of Molecular and Cellular Biology, University of Guelph, Guelph ON Canada N1G 2W1
Contact information for applicants:
Dr. Peter Krell
Department of Molecular and Cellular Biology

University of Guelph
Guelph ON Canada N1G 2W1
Webpage:
www.uoguelph.ca/mcb/faculty/faculty_krell.shtml
Appointments with either Dr. Jenny Cory or Dr. Basil Arif will be in Sault Ste Marie. Appointments with Dr. Peter Krell will be in Guelph. In both cases there is opportunity of moving between labs.

POSITIONS WANTED

Postdoctoral position. I am on the lookout for a suitable Postdoctoral assignment or Research Scientist/ Investigator position matching my field of expertise in a challenging and competitive environment. I am working as Assistant Professor of Biotechnology at GITAM Engineering College, Andhra University, Visakhapatnam. I have a Ph.D. in Entomology and have worked on entomopathogenic fungi and their molecular characterization, IPM and understanding biochemical and molecular mechanism of virulence. My research skills: insect rearing, experimental design, field layouts, computer and biotechnological tools like PCR-RFLP and RAPD, statistical analysis using software packages and manually. I have experience in research, teaching and extension on cotton crop. I have guided three Masters students in Entomology. I am able to independently design and conduct experiments.
Contact information: Dr. Murali Mohan Challa
Door No. F2, E-Block,
Ramalakshmi Estates
Peda Waltair
Visakhapatnam - 530 017

Training opportunity. I am seeking a position as an international graduate for practical training in invertebrate pathology, IPM, biocontrol or agriculture research through Council Exchanges (www.ciee.org). I am a graduate of University of South Bohemia in Ceske Budejovice, Czech Republic in general agriculture. I am interested in biocontrol. I have experience working in a lab of plant protection in University of South Bohemia utilizing entomopathogenic fungi; detection and identification of entomopathogenic fungi in target soil ecosystems; purification, long term maintenance of fungal cultures; and standard laboratory evaluation of fungal strains (e.g. radial growth, viability of conidia, CFU, evaluation of the virulence - standard bioassay) with special emphasis to its further exploitation for re-introduction back to the soil). I have spent a year as a professional trainee in Florida with of the biggest producers of tropical foliage. The past two years I volunteered for USDA Forest Service helping with spruce bark beetle and leaf miner projects. Later I would like to pursue Ph.D. degree in plant protection.
Helena Charvatova
E-mail address: helenacharvatova@seznam.cz

Research scientist or Ph.D. assistantship. I am a post graduate in Agricultural Entomology and I worked in bioefficacy of *Verticillium lecani* on aphids, whiteflies and thrips in vegetables and I would like to join a research program or Ph.D. in Invertebrate Pathology.
Contact information: jaichakravarthy
No42, Vasantham St, Sudhana Nagar Murungapakkam Pondicherry
Webpage: Http://jaiento2000@yahoomail.com
E-mail address: jaiento2000@yahoomail.com

Postdoctoral research assistant/associate position in entomology/nematology. I am a researcher with an interest in the field of biological control of insect pests and phytophagous nematodes with special emphasis on microbial bioagents. I did my post graduation in Agricultural Entomology with a research topic on "Isolation of native *Bacillus thuringiensis* Berliner and its bioefficacy against leaf eating caterpillars of castor (*Ricinus communis* L.), *Spodoptera litura* Fab. and *Achaea janata* L.". I have also worked for three years on one research project on "Potential of native EPN, *Steinernema* sp. and symbiotic bacteria, *Xenorhabdus* sp. for management of groundnut pest complex using biotechnology:
(1) isolation and establishment of role of *Xenorhabdus* bacteria isolated from promising *Steinernema* sp. against root-knot nematodes Mj pt.2 and *H. consanguinea* in vitro,
(2) estimation of total DNA from *Xenorhabdus* isolates and *Steinernema* spp. for differentiation and characterization and
(3) estimation and characterization of exo and endo proteins of *Xenorhabdus* sp. for search of most toxic factor / metabolites (Pesticidal Proteins) for Mj pt.2 and *H. consanguinea*.
Presently, I am working as a Postdoctorate Fellow in Department of Nematology, ARO, Israel. I have been awarded two prestigious International Scholarship by Ministry of Foreign Affairs, Israel

and Rotary International District 2490 as an Ambassadorial Scholar sponsored by The Moshe Greidinger Scholarship Fund.
Contact information: Dr. Ajaykumar B. Maghodia
Department of Nematology,
Institute of Plant Protection,
Agricultural Research Organization,
The Volcani Center, Bet Dagan 50250,
PO Box 6, ISRAEL.
Phone: +972-3-9683353 (O)
Fax : +972-3-9683445 (O)
Mobile: +972-0547697472
Email : ajay_maghodia@yahoo.co.in
ajaybmaghodia@gmail.com

Postdoctoral position or research scientist. I am on the lookout for a suitable Postdoctoral assignment or Research Scientist/ Investigator position matching my field of expertise in a challenging and competitive environment. I am working as Assistant Professor of Entomology at Punjab Agricultural University, Ludhiana. I have a Ph.D. in Entomology and have worked on virus vector relationships, IPM and host plant resistance. Presently, I am in Gainesville, Florida. Research skills: Insect rearing, experimental design, field layouts, computer and biotechnological tools like PCRs, Statistical analysis using software packages and manually. I have experience in research, teaching and extension on sugarcane and cotton crop specifically on transgenics. I have guided one Master's student in Entomology. I am able to independently design and conduct experiments and can bring research grants.
Contact information: Rajinder Singh Mann
Email: rajsmann@rediffmail.com

Ph.D. program in insect pathology/biological control sought. I completed a Masters Degree in Entomology in July 2005 from Tamil Nadu Agricultural University, Coimbatire My M.Sc. thesis was titled "Laboratory investigations on the nucleopolyhedrovirus (HaNPV-I strain) selected for UV tolerance against cotton bollworm *Helicoverpa armigera."* Attempts were made to increase the UV tolerance of HaNPV. I am interested in continuing my Ph.D. program in biocontrol related aspects. I would like to join a Ph.D. programme in the fall of 2006. Shivashankar
Email: shivashankar_hd@yahoo.co.in

Ph.D. program: I have completed a Masters Degree in Agriculture Biotechnology in August 2004 from Marathwada Agricultural University, Parbhani in which I secured an 8.7/10 grade. My M.Sc. thesis was titled "A biolistic approach for the transfer and expression of Cry 1 A(c) and Cry 1 A(b) genes in embryonic axes of cotton (*G. hirsutum* L)". I have completed six months industrial training in molecular markers at well known company MAHYCO. Professional Experience:
2004-Transformation of cotton straight varieties with Cry 1 A(c) and Cry 1 A(b) genes using biolistic gun (bio rad 1000 He); 2002-Micropropagation of Banana and Sugarcane at Tissue Culture Project MAU Parbhani; 2004-Developed molecular markers (SSR, RAPD, and AFLP) for germplasm screening in Brinjal and tomato; 2005-Isolation and characterization and cloning of lectin genes from different sources of Amaryllidaceae and Araceae family using p GEMT easy vector system as well as P-cambia1301 vector system; 2005-Gene expression studies on lectin gene; 2005-Isolation of lectins from diverse sources and purification using affinity. Presently I am working as research associate in Biotech Division of MAHYCO. I have prepared one project on insect pathogenic nematode, which can be replicated at a new laboratory. I would like to join a Ph.D. programme in the 2006.
Contact information: Dangat Sandip Shivaji
At Post Nirgudasar
Tal-Ambegaon
Dist-pune 412406
Maharastra
E-mail-dangatsandip@indiatimes.com

Postdoctoral position: I am a postgraduate in Entomology from the Department of Entomology, Punjab Agricultural University (PAU), Ludhiana, India. I have been awarded Gold medal both in B.Sc. and M.Sc. During the Master's program, I worked on nucleopolyhedrovirus of *Helicoverpa armigera*. Then I worked as a Research Fellow in the Insect Molecular Biology Laboratory, Department of Entomology, Punjab Agricultural University (PAU), Ludhiana in the project "Resistance to *Bt*-cotton in the cotton bollworm *Helicoverpa armigera*: Detection, monitoring and development of new resistance diagnostic tools and management strategies" for six months. Recently I was judged the best Post Graduate student in the university and awarded with the prestigious University Gold Medal. University Merit Scholarship holder throughout B.Sc. and M.Sc.

programs. Now, I am keen to pursue my Ph.D. in the field of Insect Pathology/Biological Control in USA to achieve my educational objectives and professional goals.

Contact information: Rajwinder Singh s/o Balwant Singh
V: Sujokalia
PO: Burewal
Teh: Sultanpur Lodhi, Distt: Kapurthala, Punjab, India.
Postal code: 144628, Ph: +91-9872410020
E-mail: rajnandha6@yahoo.com

FUTURE MEETINGS AND WORKSHOPS

May 15-19: Biosafety Ii: Practical Course In Evaluation Of Field Releases Of Genetically Modified Plants, Florence, Italy.
Contact: ICGEB, Padriciano 99, I-34012 Trieste, ITALY.
Email: courses@icgeb.org. Fax: 39-040-226555.
Web:
http://www.icgeb.trieste.it/MEETINGS/CRS06/15_19maggio.pdf.

May 28-31: First Balkan Week of Plant Health in conjunction with the 70th Anniversary of the Plant Protection Institute, in Kostinbrod, Bulgaria
Plant Protection Institute
Panayot Volov str. 35
2230 Kostinbrod
Bulgaria
Fax: +359-721-66061
Info: protection@infotel.bg
Registration: 60 Euro
Contact: Assoc. Prof. Olia Karadjova, Ph D, Director of Plant Protection Institute
E-mail: oliakaradjova@abv.bg

August 6-11: The 11th International Congress of Parasitology (ICOPA XI), Glasgow, Scotland UK

Future SIP Meetings

SIP 2006!!
Wuhan, China
August 27- September 1

SIP 2006
IX International Colloquium on Invertebrate Pathology and Microbial Control
39th Annual Meeting of the Society for Invertebrate Pathology and
VIII International Conference on *Bacillus thuringiensis*

Contact: Sun Ming
(sip2006@mail.hzau.edu.cn)
Link: http://sip2006.hzau.edu.cn

Tentative: August 13-17, 2007
Quebec City
Canada

Proposals for hosting future meetings are welcomed. Please contact Mark Goettel, Chair of the Meetings Committee.
E-mail: Goettel@AGR.GC.CA

PAST MEETINGS AND WORKSHOPS

S-1024, The USDA Southern Region Committee on Discovery of Entomopathogens and their Integration and Safety in Pest Management Systems, met February 12-13 in Savannah, Georgia, USA. State and USDA representatives and other members exchanged research reports and discussed potential collaborations at the annual meeting.

S-1024, Savannah, Georgia, USA, February 2006

MICROBIAL CONTROL

A PLANTING AID FOR REFUGIA IPM is gladly sharing the agricultural stage with another fast rising acronym, IRM (insect resistance management), symbolizing a stream of techniques aimed at staving off emergence of pest insect resistance toincreasingly adopted, primarily Bt-based, biotech strategies, that have found favor with many growers seeking to reduce both pesticide use and travel across fields utilized for grain crops. A key IRM tactic is planting refugia, areas of non-Bt (or other genetically modified strains) in field blocks or strips adjacent to the Bt-modified crops. A refuge supports and fosters the survival and reproduction of Bt-susceptible insects. But refugia also mean that a grower has to separate and plant two kinds of seed often necessitating multiple passes across a field. To address this need a U.S. equipment manufacturer now offers a device that, when fitted to standard grain planting equipment, allows for simultaneous seeding of both Bt and non-Bt seed for creating strip refuges. The advantages are said to be increased operating efficiency: growers can plant more land with fewer halts to refill planting equipment and thereby cover more field area within planting "window" deadlines. In turn, this ability may serve to encourage increased inclusion of refugia in planting operations. B.E. Nelson, John Deere
IPMnet News, January 2006

PUBLICATIONS

From "The Traveling Microbe-ologist" Stefan Jaronski: "Thanks to the power of Google: I thought this might be an interesting addition to the next newsletter. It's not ALL about killing bugs!"

From the 2003 Institute of Food Technologists Annual Meeting, Chicago IL:

60D-16 "Effect of synnemata of Beauveria bassiana *on the properties of noodle and the baking qualities of bread"*

C. S. YOON1, S. H. BAE2, H. H. SONG3, H. S. Park1, and C. Lee3. (1) Research Inst. of Eng. and Technol, Korea Univ., 1, 5-ka Anam-dong Sungbuk-ku, Seoul, 136-701, South Korea, (2) Grad. School of Biotechnol., Korea Univ, 1, 5-ka Anam-dong Sungbuk-ku, Seoul, 136-701, South Korea, (3) Dept. of Food Science & Technology, Chung-Ang Univ., Dae-Duk Myun, Nae ri 72-1, Ansung, 456-756, South Korea

This study was conducted to investigate the addition effect of synnemata of *Beauveria bassiana* exhibiting various biological activities on the physical properties of noodle and on the baking qualities of bread. Dried-noodle and bread were made with wheat and synnemata of *Beauveria*

bassiana added by 1.0%, 3.0% and 5.0% respectively. There was no remarkable changes in color of dried-noddle [sic] and cooked-noddle by the addition of synnemata of *Beauveria bassiana* at 1% and 3%. However, L-value decreased slightly from 93.54 to 90.37 at 5% of addition in both case and b-value increased in every concentration. As the same way, the addition of synnemata of *Beauveria bassiana* at level of 1% and 3% did not induce significant differences in the weight, volume, ratio of water absorption, and turbidity of soup at cooked-noddle. Breaking force of dry-noddle made with synnemata of *Beauveria bassiana* at level of 5% was lower than that of dry noodle without synnemata. The addition of synnemata of *Beauveria bassiana* gave rise to the increase of breaking force of cooked-noddle and the value reached at maximum at 3% of addition. In case of bread, L-value decreased from 75.03 to 58.91 at 5% and b value increased slightly from 12.37 to 14.29 at 5% and a-value did not be changed by the addition of synnemata. The hardness of bread made of composite flour blended with synnemata of *Beauveria bassiana* at level of 1% was lower than that of 100% wheat flour, but that of 3% and 5% was higher than that of 100% wheat flour. From thid results, the flour from synnemata of *Beauveria bassiana* could be applied for the preparation of dried- and coolked-noodle and baking at concentration under 3%.

A Broad Perspective Of IPM

Beyond its ecological, environmental, and economic relevance, IPM can be viewed as bearing on the critical matter of ensuring food security. It is from this perspective that the 2005, 2-volume *Integrated Pest Management, Principles And Applications* has sprung. Author/editors A. Singh, et al., have tapped a contingent of India-based experts to address IPM and its many facets as "the cardinal principle of plant [crop] protection to minimize the indiscriminate and injudicious use of chemical pesticides in agriculture," as identified by the Indian National Agricultural Policy of 2001. The first of the twin volumes tackles "principles" [note: the second volume on "applications" was not in hand] in depth covering the main pest categories, as well as the basic underlying philosophy of encouraging natural enemies of pests of the major economically important crops. Dr. Singh introduces the 420-page, hardbound work citing agriculture as "not only the backbone of India's economy and food security, but also a way of life and anchor of the livelihood of Indian people," thus imbuing with nationalistic fervor the importance of fostering IPM. Seventeen chapters range from concepts to more prosaic aspects of regulation and evolutionary trends. Numerous full color plates placed throughout augment the text. H.S. Poplai, CBS Publishers, 4596/1-A, 11 Darya Ganj, New Delhi 110002, INDIA. Mailto:cbspubs@del3.vsnl.net.in. Fax: 91-11-232-76712. Phone: 91-11-232-89259. Web: http://www.cbspd.com

IPMnet News January 2006

Don't Forget to Pay Your Dues for 2006

To ensure that your membership remains current and that you continue receiving the Newsletter, please return your dues notice with payment or access the web site for online dues payment. Please contact the SIP Executive Secretary if you have questions or need information about payment. (See Page 2 for addresses.)

ERRATA

Whoops! For the record, Marcelo Jacobs-Lorena who placed first in the Women's 35-44 5K fun run in Alaska is not a female. Apologies from the data entry crew to Marcelo and to Aki Fujimoto who actually placed first, Erina Lizuka who placed second, and to the unknown third place runner in that division. If you know who you are, please let us know and we will gladly give you the kudos you deserve!

EDITORS' NOTE

Thanks to Wu Dandan for providing the tour information and photos for the SIP meeting in Wuhan. The meeting promises to be SIP at its best… new venue, new colleagues, good science and great friends!

Lee, Gernot and Vince

A) Manuella van Munster prepares to shoot the camera man; B) highly photogenic SIPers Fabienne Vigneux and Jarrod Leland; C) MG Feng and D) George Kyei-Poku, at the posters; E) Jeong-Jun Kim with a t-shirt retrospective.

Some SIP stalwarts in Anchorage: A) Rich Humber; B) Rose Monnerat and Christina Nielsen-LeRoux; C) Rosalind James; D) Surendra Dara; E) Stefan Jaronski.