



Society for Invertebrate Pathology Newsletter

Volume 45 Issue 1

February, 2012

Dear SIP members and colleagues,

It is our pleasure to invite you to attend the 2012 International Congress on Invertebrate Pathology and Microbial Control & 45th Annual Meeting of the Society for Invertebrate Pathology. The meeting will be held from August 5 to 9, 2012 at the Convention Center of the Universidad Católica Argentina (UCA), Puerto Madero, Buenos Aires, Argentina.

We have planned an exciting scientific program to explore the latest findings in invertebrate pathology, including microbial control of insect pests, diseases in beneficial invertebrates, medical and biotechnological significance of entomopathogens, and fundamental scientific research in host-pathogen interactions.

We look forward to seeing you in Buenos Aires!

The Local Organizing Committee

Important Deadlines:

Student Travel Award Applications

April 1, 2012

Abstract Submission

January 16 - April 6, 2012

Registration

Early - January 16 - May 25, 2012

Regular - May 26 - July 20, 2012

Late/On-site - July 21 - August 5, 2012



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Dear SIP Colleagues,

“Time flies when you’re having fun”... and one thing I hear from invertebrate pathologists when the conversation turns philosophical is that they love their careers. Logistics and politics are sometimes frustrating, but the work itself is intellectually exciting, worthwhile and, well, a *lot* of fun! Where does the “time-flying” part come in? It just occurred to me that it



truly seems like yesterday we were wrapping up a great meeting in Halifax, Canada, and now registration is open for the 2012 International Congress on Invertebrate Pathology/45th SIP Annual Meeting in Buenos Aires, Argentina. “Tomorrow” we’ll be greeting each other at the 2012 Mixer.

Speaking of meeting registration, please open the brand new meeting website [<http://www.sipweb.org/SIP2012/index.html>] that was developed for SIP as a permanent site program. Future meeting organizers can customize it (with the help of our able executive secretary, Cecilia Schmitt), saving the annual time and expense of finding a web designer and creating a new website. And while exploring the site, why not register for the upcoming meeting?!

45th SIP Annual Meeting

Alicia Soccio-Cap, Victor Romanowski and their local arrangements and program teams are busy organizing the 2012 Congress and Annual Meeting (August 5-9). The meeting site is a state-of-the-art and beautifully remodeled old warehouse - a perfect venue for our group to attend sessions, meet with colleagues and socialize. The banquet (tango and all) will be held in a stunning setting in downtown Buenos Aires. The venue is ready... now it’s up to all of us to provide excellent science and collegiality to make this year’s SIP meeting yet another huge success. Invite your colleagues and students *y nos vemos en Argentina!*

2013 Meeting

The Organizing Committee for the 2013 SIP Meeting in Pittsburgh, Pennsylvania, USA reports that contracts have been settled on excellent venues (including a “three rivers” boat trip BBQ) so stay tuned for more details at this summer’s meeting. Organizers are Nina Jenkins (Chair) and Kelli Hoover (Co-Chair) for Local Arrangements Committee, and Matt Thomas (Chair)

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for the Program Committee. Other SIP members on the organizing committee are Mary Barbercheck, John Vandenberg, Jim Slavicek and Nancy Ostiguy.

Website News

Because we were able to work with the Design Group, College of Veterinary Medicine, University of Illinois, on the meeting website for a very reasonable price, Council has given the go-ahead to update the entire SIP website. We'll have some prototypes by the end of February and will start the process of working with the design group to create new programming and an updated look. We'll keep you posted on progress.

Elections

In this issue, you'll read the biographies for SIP members who were put forward by the Nominations Committee for the 2012-2014 term and, dedicated members all, have agreed to stand for SIP-wide offices. SIP members will be notified by email when the e-ballots are ready for voting. In addition, several Divisions will nominate new officers for the 2012-2014 term and voting will take place at Division meetings in Buenos Aires or via e-ballot. Please show your support by voting in the SIP-wide election and by being part of the nomination process and/or being willing to stand for office in your selected Divisions ... which brings up a second issue. Only paid SIP members can vote, stand for office, or serve on Society committees, so please make sure to renew your membership for 2012 so your that voice is heard (and, of course, to take advantage of the reduced rate member registration for the annual meeting!).

Committees

Another way to serve and support SIP is to join one of several committees that are vital to the function of the Society. Committee membership involves working with other SIP members from around the world and is a great way to meet and interact with others who have similar professional and Society interests. Choosing committee members is facilitated when members' interests and willingness to participate are known. Please consider how you might participate in the Society's business and

contribute to a vibrant future by letting the incoming SIP and Division officers know of your interests.

Newsletter

Eric Haas-Stapleton is doing a fantastic job with the Newsletter.... Please be sure to send news items and other information relevant to Society members to him for publication. One note for the current Newsletter issue is that information for the 2012 Annual meeting will not be published in detail as in the past. Readers will be referred to the SIP meeting website for necessary details. We are assuming that members interested in attending the annual meeting will have access to the internet. If this is not the case and the decision not to publish meeting details in the Newsletter will create a hardship for anyone, please let Eric know.

SIP Finances

The Society has had the good fortune of profitable meetings in 2010 and 2011, as well as good support from our industry partners. Our current situation is quite solid, with our goal met of maintaining sufficient funding for 2 years of Society expenses, so Council voted (unanimously) at the midterm meeting to fund student travel awards at \$750 per Division and travel awards for speakers at \$1000 per Division for the 2012 meeting. As you know, these decisions must be made on an annual basis so that our yearly financial status can be taken into consideration. It is, however, exciting to facilitate bringing new and interesting science to our meetings.

Time flies.... Continue to have fun, Invertebrate Pathologists, and we'll meet soon in Argentina!



45th Annual Meeting of SIP in Buenos Aires, Argentina

The 45th Annual Meeting of SIP and the 2012 International Congress on Invertebrate Pathology and Microbial control will be convened in the beautiful coastal city of Buenos Aires in Argentina. The meeting will begin on August 5th and continue through the 9th at the Convention Center of the Universidad Católica Argentina (UCA), which was recently renovated to host conferences.

The UCA Convention Center is located in Puerto Madero, a neighborhood which represents the latest architectural trends in the City. It is one of the most modern, peaceful and comfortable neighborhoods of Buenos Aires. Puerto Madero sports a comfortable waterfront atmosphere with a nearby ecological reserve (*Costanera Sur*).

While the conference is in August, it is the winter season for Argentina and temperatures will be cool (average high of 17 °C and low of 9 °C). However, if you are a fashion aficionado, don't let the temperatures dissuade you from packing your fineries. Buenos Aires is a cosmopolitan city and fashion is revered by the locals!

Travel information. Direct air flights to the Ministro Pistarini International Airport in Buenos Aires are widely available and the 33 km taxi ride to the meeting venue is simple to arrange from the airport. The address of the venue is: Universidad Católica Argentina, Avenida Alicia Moreau de Justo 1680, Puerto Madero. Please check visa requirements well in advance of your planned travel and be aware that while visas are not required for citizens of several countries (ex. USA, Canada and Australia) a "reciprocity fee" must be paid upon arrival in Argentina (US\$ 75-131). If an official letter of invitation is needed for obtaining a travel visa, the Local Organizing Committee is happy to provide one upon request.

Hotel Reservations. Members attending the conference are responsible for making their own reservations for accommodations. There is a broad range of opportunities for lodging nearby the Convention Center that range in price from US\$ 71-289 per night for rooms in "two - five star" hotels. Please see the website for the Annual Meeting for more information on the nearby hotels and to make reservations (<http://www.sipweb.org/SIP2012/accom.html>).

Abstract Submission and Registration. Early online registration for the conference is now open through the website for the Annual Meeting (<http://www.sipweb.org/SIP2012/registr.html>). Abstracts must be submitted via email by **April 6, 2012** to sip2012ba@gmail.com according to the instructions provided on the meeting web site (<http://www.sipweb.org/SIP2012/abstract.html>).



Convention Center of Universidad Católica Argentina



Casual meeting room in the Convention Center



Palacio San Miguel in downtown Buenos Aires

SIP Awards. Students of invertebrate pathology are highly valued by all members of the society and we strive to encourage excellence in their research. To that end, there are many awards available to students that provide financial assistance for attending the Annual Meeting. These include the prestigious Mauro Martignoni Award and Chris J. Lomer Memorial Award. Additionally, there are Division Travel Awards that students should apply for to defer the cost of attending the Annual Meeting. The deadlines to submit an application for these awards is April 1, 2012. Please see the meeting website for more details (<http://www.sipweb.org/SIP2012/award.html>). In addition to the awards, there is a lively student competition for best Oral and Poster Presentations. Winners earn a cash prize and are recognized for their achievement by the SIP Council at the banquet! Students wishing to enter these competitions should check the “student competition” box when registering and submitting an abstract.

Scientific Program. The conference will convene on Monday with the Founders’ Lecture and first Plenary Session. Monday through Thursday afternoon symposia will be conducted in simultaneous sessions. The Division business meetings are scheduled for the evenings of Monday and Wednesday. The Society’s business meeting will be held late Thursday morning.

Social Program. In addition to the scientific program (highlights are below), a social program is planned that includes the traditional BBQ and optional excursion to the Tigre-Delta on Tuesday, the 5K run-walk on Wednesday at noon (it’s too chilly in the morning!) and will close with the Banquet in downtown Buenos Aires at Palacio San Miguel, an elegantly preserved venue built in 1885. Be sure to check out the meeting website for suggestions of more optional activities that you may enjoy during your visit to Buenos Aires (<http://www.sipweb.org/SIP2012/todo.html>).

More details for the conference program, venue, registration, abstract submission and contact information is available on the Meeting Website: <http://www.sipweb.org/SIP2012/index.html>

We look forward to see you in Buenos Aires!

Alicia Sciocco-Cap, *Chair*

Corina Berón, Graciela Quintana, Marcelo Berretta, Claudia López Lastra

The Local Organizing Committee

Víctor Romanowski, Juan Ferré-Manzanero
Scientific Program Committee



Panoramic view of Puerto Madero at sunset

Scientific Program for the 2012 Annual Meeting of SIP in Buenos Aires, Argentina

PLENARY SYMPOSIUM

Microbial Control in Public Health and Veterinary Medicine: Reality and Expectations

Organized by Victor Romanowski and Alicia Sciocco-Cap

DIVISIONAL SYMPOSIA

Bacterial Division

Bacterial Topics of Interest to Latin America

Organized by William Moar and Alicia Sciocco-Cap

Diseases of Beneficial Invertebrates Division

Bee health in Latin America

Organized by Elke Genersch and Adriana Alippi

Fungus Division

Host Immune Response to Fungal Pathogens

Organized by Joanna Fisher and Ann Hajek

Microbial Control Division

Microbial Control – The Latin American Way

Organized by Surendra Dara and Trevor Jackson

Microsporidia Division

Microsporidia from South America

Organized by Carlos Lange and Dörte Goertz

Nematode Division

Beyond Agriculture: EPNs across the sciences

Organized by Glen Stevens and Arne Peters

Virus Division

Viral Biocontrol

Organized by Alicia Sciocco-Cap, Marlinda Lobo DeSouza and Chris Lucarotti

CROSS DIVISIONAL SYMPOSIA

Diseases of Beneficial Insects and Microsporidia Divisions

Microsporidia of beneficial invertebrates: Host-pathogen interactions

Organized by Dörte Goertz and Grant Stentiford

Fungus and Virus Divisions

Pathogen induced host behaviour - clues for mechanisms

Organized by Monique van Oers and Nicolai Vitt Meyling

Cross Divisional (Nematode and Bacteria)

Beyond Agriculture: Nematode and Bacteria Applications in Other Science Disciplines

Organized by Glen Stephens

WORKSHOPS

Diseases of Beneficial Invertebrates Division

OIE-notifiable aquatic invertebrate: a Latin American perspective

Organized by Grant Stentiford, Carlos Zenobi and Sergio Martorelli

Microsporidia Division

New insights into host-pathogen interaction in the Microsporidia

Organized by Dörte Goertz and Grant Stentiford

Cross Divisional

Use of RNAi to control insects or diseases of insects

Organized by William Moar and Ricardo Salvador.



The 2013 Annual Meeting of SIP: Pittsburg, Pennsylvania USA

Mark Goettel, Chair of the Nominating Committee, presents the nominees for SIP Council

Jørgen Eilenberg – Incoming President



As incoming President I look very much forward to serve the SIP, which since 1982 has been the core scientific society for me. I am professor at University of Copenhagen, Denmark. My bibliography appeared in the newsletter February 2010, so please read there if you wish to know more about my professional experience and earlier services to SIP.

Ecology and Zoology, University of Applied Sciences Eberswalde, Germany, Faculty of Forestry.

Research interests:

Insect pathology, biology and potential of microsporidia in biological control, field ecology and host-pathogen interactions. General parasitology and protozoology, applied ecology of forests and ground beetle communities in forests.

Professional activities:

Dean of the faculty of forestry from 2003-2005. Currently Chair of the Ethics Committee of the university. Since 2008, Chair of the Research Committee of the Faculty of Forestry, and since 2009 representative of the Studienstiftung des deutschen Volkes at our university. Member of the editorial board of “*Biocontrol Science and Technology*” and reviewer for various journals including *Journal of Invertebrate Pathology*. Co-chair of the working group “Microbiology” in the German society for General and Applied Entomology (DGaaE). Organizer, 2010 meeting of the International Union of Forest Research Organizations (IUFRO) on forest pest insects and biological control (Eberswalde); Organizer, 2010 symposium “Microsporidia and other pathogens in arthropods from the eastern Mediterranean region” (SIP meeting, Trabzon). Organizer, 2000 and 2001, Meeting of German invertebrate pathologists (DGaaE meeting). Research cooperations and projects with partner institutions in Eastern Europe (Bulgaria, Georgia, Turkey) and the USA. Long-term research stays / guest lecturer in the USA (Illinois National History Survey and Univ. of Illinois; USDA Forest Service), Costa Rica and Bulgaria (Bulgarian Academy of Sciences). Responsible for teaching applied ecology and zoology in four study course. Since 1994, supervisor of more than 60 M.Sc. and B.Sc. and 5 Ph.D. students.

Memberships:

Society for Invertebrate Pathology (since 1991)
German society for General and Applied Entomology (DgaaE) since 1985,
German parasitological society (DPG)
Organization for tropical studies (OTS)

Service to SIP:

Member of SIP since 1991, Chair of microsporidia division 1999-2000 (Vice-Chair of microsporidia)

Andreas Linde – Nominee for Vice-President



Education:

Diploma in Biology, Friedrich-Wilhelms University Bonn, Germany, 1987. Thesis focused on a new microsporidium (*Vairimorpha* sp.) from *Plutella xylostella* (biology, effects on the host, transmission). Dr. rer. nat., F.-W. University Bonn, Germany,

1991 (Biology and microbiology). Thesis focused on the invasion mechanism of microsporidia into insect host cells (cell culture, TEM).

Experience:

In 1984, student internship at the ICIPE in Kenya. From 1986-1990 research assistant at the F.-W. University Bonn. funded (stipend) by Studienstiftung des deutschen Volkes. Beginning in 1990, Assistant Professor at the Institute for Applied Zoology, Faculty of Forestry, Ludwig-Maximilians University Munich, Germany. Since 1994, Professor for Applied

division 1997-1998), Secretary/Treasurer, microsporidia division since 2011. Member of SIP awards and students contest committee since 2002, Chair of this committee since 2006. Member of the membership committee, 2005-2009. Chair of numerous sessions and organizer of various workshops of the microsporidia division.

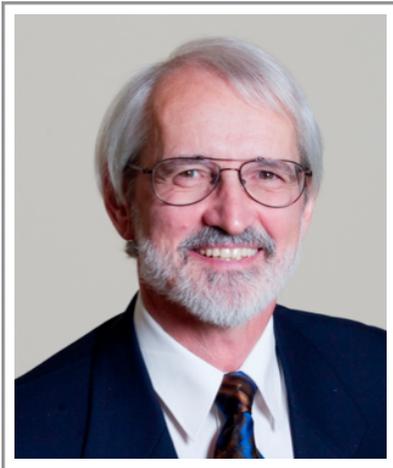
Personally, the Society has always been my professional inspiration – and more. The annual meetings provide a rare chance to “recharge my research batteries” and meet colleagues, most of whom are also friends by now. During my first SIP meeting in 1991, I was overwhelmed by the open scientific exchange, the support (in particular for young scientists), and the atmosphere of inspiration and friendship. This said, I have only missed two meetings in the last 21 years. I especially value the combination of basic and applied research from all areas of invertebrate pathology and all taxonomic

groups. The excellent interaction and cooperation with colleagues from research institutions, universities, and commercial companies during and after the meetings is inspiring and a trademark of SIP. I am convinced that this should be continued and intensified in the future.

In difficult times like today, with budget restrictions and visa problems, SIP should continue and intensify its networking efforts, using all possible platforms to serve its members. This will also help to make SIP more attractive and increase membership.

SIP is a truly international community. We should therefore also continue our support of young scientists from all parts of the world and facilitate their participation in the meetings. Students of today are professionals (and potential members) of tomorrow!

Peter Krell – Nominee for Vice-President



Education:

B.Sc. Biology
C a r l e t o n
University, Ottawa
Canada 1970.
M.Sc. Biology with
P e t e r L e e a t
C a r l e t o n
University, Ottawa
Canada 1974.
T h e s i s o n
“Replication of
Tipula iridescent
virus in *Galleria
mellonella*”. Ph.D.

Microbiology with Don Stoltz, Dalhousie University, Halifax Canada 1980 Thesis on “Characterization of dsDNA viruses in parasitic hymenoptera”. Postdoctoral Fellow in Entomology with Max Summers, Texas A&M University 1980/81.

Academic Positions:

Assistant, Associate and Full Professor, University of Guelph, Guelph Canada 1981 to present in the Department of Molecular and Cellular Biology (formerly Microbiology). C.T. de Wit Fellowship in Ecology, Wageningen Agriculture University

1995/1996 (host Just Vlak). Acting Chair, Department of Microbiology, University of Guelph 2001 – 2002.

Research interests:

I was interested in insect pathology, in particular virology, since my early days as a summer student assistant at the Insect Pathology Research Institute in Sault Ste Marie working on nuclear polyhedrosis virus and cytoplasmic polyhedrosis virus with Dr. Ted Bird, from 1966 to 1970. I then studied the iridoviruses (*Tipula iridescent virus*) for my MSc and for my Ph.D. with Don Stoltz and later a Postdoctoral Fellowship with Max Summers, studied the molecular biology of what are now known as polydaviruses of parasitic hymenoptera. While I strived to carve out an independent polydavirus research program, other insect viruses, namely baculoviruses contrived against me by infecting the parasite host. As the old adage goes, “if you can’t beat them join them”, so I turned my interests to baculoviruses around 1990 and have maintained that interest ever since, especially in the area of viral DNA replication, transcription and functional genomics, as well as their use as expression vectors. Relying heavily on collaborators, many of them SIP members, I also dabbled in molecular entomology. Being in a University with a Veterinary

school, I also collaborate on research on animal viruses including porcine parvovirus, PRRS virus, infectious pancreatic necrosis virus of fish and avian viruses such as Newcastle disease virus, fowlpox virus and fowl adenoviruses, more recently branching out into development of recombinant virus-based veterinary vaccines.

Professional activities:

Governance Positions. Canadian Society of Microbiologists: 1st Vice President, 2nd Vice President, President, Past President, 2005 to 2009; Vice Chair/Chair of Virus Section 1992 to 1996, Chair, Local Organizing Committee, Guelph 1997/98. International Committee on Taxonomy of Viruses (ICTV): Member of the executive and Chair of the ICTV Invertebrate Virus Subcommittee 2008 to 2014, Canadian Representative on ICTV 2004 to 2012, Member Polydnviridae Study Group 1990 to 2000. Society for Invertebrate Pathology: Secretary, 2004 to 2006; Chair and Vice Chair of Virus Division, 1996 to 2000, Program Committee member SIP Quebec, 2006 and SIP Halifax, 2011. American Society for Microbiology (ASM): ASM Ambassador to Canada. Biocontrol Canada Network (BCN), an NSERC Network: Program Leader TN2 Sawflies, 2001 to 2006; Member, Board of Directors as elected Network Investigator Representative, 2004/2005, Member of two BCN Subcommittees and Chair of Education, Training and Communications.

Editorial/Reviewer Work: *Canadian Journal of Microbiology*: Section Editor. *Virology*, *Molecular Biology and Genetics*, 1995 to present. *Biocontrol Science and Technology*: International Editorial Advisory Board, 2008 to present. *Biological Control Theory and Application in Pest Management*: International Editorial Advisory Board. *Journal of Invertebrate Pathology*: frequent reviewer along with many other journals.

Service to SIP:

My first introduction to SIP was the SIP meeting in Kingston Ontario, Canada in 1976 near the beginning of my Ph.D. program (and I have a print copy of the Program and Abstracts booklet to prove it). I became a SIP member after assuming my faculty position at the University of Guelph and have been a member ever since. In 1996 I was elected Vice Chair and then Chair for the SIP Virus Division, a position I held until 2000. From 2004-2006 I

served as Secretary of SIP. I have been involved in the organization/running of several SIP meetings either as member of the SIP Program Committee (SIP Quebec, 2006 and SIP Halifax 2011) or as Organizer (e.g. Virus Division Satellite meeting on Biology of Polydnviruses SIP 2006; Workshop on DNA microarray technology, SIP Anchorage 2005; Viruses of Forest Insect Pests, SIP Halifax 2011), and as (co)Convenor or (co)Chair of SIP sessions (Session A, SIP Sault Ste Marie, 1985; Session C13, SIP Eindhoven 1986; Viruses 5, SIP Quebec, 2006; Viruses 1, SIP Park City 2009, Viruses 3, Trabzon 2010). Some SIP members might recognize me better as the SIP paparazzi extraordinaire.

Musings:

The strength and popularity of SIP and our meetings is due to the high calibre science, the heavy involvement and encouragement of students and postdoctoral fellows in the society and of course its international flavour, with meetings hosted in appealing venues allowing members to savour different geographies and cultures. The family nature of the society, is very important to maintain as it allows the nurturing of junior members and the meetings provide a friendly forum often missing in other societies. All these attributes of our SIP strengths need to be maintained. One challenge faced by the SIP is maintaining or even increasing the number of members to keep the society viable. It is also critical to identify and engage those who have just entered their independent research careers to become members and more importantly to stand for governance positions. Of concern are the fewer numbers entering the field of invertebrate pathology (often due to decreased research funding) and lack of awareness of SIP by those who could be considered invertebrate pathologists, like those studying beneficial insects or arthropod borne diseases. These are just some of the issues the incoming executive should continue with as part of its mandate.

Secretary Nominees



Neil Crickmore – Nominee for Secretary

Education:

BA (Biochemistry)
University of
Cambridge (1984).
MA (Honorary)
University of
Cambridge (1987).
Ph.D. University of
Warwick (1988)
Thesis title “Analysis

of a cell division gene cluster in *Escherichia coli*”.

Academic Positions:

1988-1995: post-doc in the laboratory of David Ellar (University of Cambridge) in collaboration with E. I. du Pont de Nemours and Company. 1995-2005: Lecturer in Molecular Genetics, University of Sussex, UK. 2005-present, Senior Lecturer in Molecular Genetics, University of Sussex, UK.

Research Interests:

My research has always been based around *Bacillus thuringiensis* – in the early days the cloning, characterizing and expressing novel genes and using protein engineering to better understand toxin mechanism of action. More recently I have worked with the insect targets of this bacterium studying the interactions between host and pathogen with a particular interest in target pests that have acquired resistance to *Bt* and its toxins. I have also been interested in interactions between *Bt* and synthetic insecticides.

International Activities:

Throughout my career I have collaborated extensively with international partners from both academia and industry. As a result of these myself and/or my students have participated in funded exchange visits to Austria, China, Colombia, Denmark, India, Pakistan, Spain and the USA.

Between 2005 and 2010 I chaired a European Union funded network “Bacterial toxins for insect control” that involved organizing multiple meetings a year across many of the EU countries and facilitating research collaborations between scientists within these countries. I also used this network funding as an opportunity to bring scientists from some of the poorer EU nations to IOBC and SIP meetings.

Memberships:

I am currently a member of the Society for General Microbiology as well as the SIP and serve as a member of the Editorial Board for the *Journal of Invertebrate Pathology* and for *Biocontrol, Science and Technology*. I was a founding member of the International *Bacillus thuringiensis* Toxin Nomenclature Committee and am currently the Chair and Webmaster of this committee. I am also convenor of the bacterial division of the WPRS section of the IOBC.

Service to SIP:

I have been a member of SIP since around 1990 and since my first meeting in 1992 have attended all but two of the Annual Meetings. I have previously held various positions within the bacterial division (secretary/treasurer/vice-chair/chair) and have sat on the Membership Committee of SIP. I currently sit on the Founders Lecture Committee. In 2008 I was part of the organization for the SIP meeting at Warwick which incorporated the Annual Meeting of the EU COST action mentioned above. Similarly in 2010 I worked with Zihni Demirbag to incorporate the final COST meeting into the Trabzon SIP meeting. I have organized or co-organized half a dozen or so symposia at SIP meetings and spoken at others. I am a great fan of the 5k run at SIP meetings (and organised the 2008 run – the one with lots of chocolate at the finish). Whilst not planning to propose this as a compulsory activity at future meetings, would certainly like to see the tradition continue.



**S. Patricia Stock –
N o m i n e e f o r
Secretary**

Education:

B.S. (Zoology) 1985, National University of La Plata, Argentina; Ph.D. (Natural Sciences, with honors) 2002, National University of La Plata, College of Natural Sciences and Museum Studies, La Plata, Argentina.

Academic Positions:

2008-2011, Professor, Dept. Entomology, University of Arizona, USA; 2005-2008, Assistant professor, Entomology, University of Arizona, USA; 2001-2005, Assistant Research Professor, Plant Sciences, University of Arizona, USA; 1998-2001, Assistant Curator, Nematology, University of California, Davis, USA; 1996-1998, Postdoctoral Research Associate, Nematology, University of California, Davis, USA.

Professional Activities (selected):

Service to SIP. 2012, Member scientific program committee, Argentina; 2008-present, Member, Awards Committee; 2006-present, Faculty Advisor for the Graduate Student Affairs Committee; 2004-2008, Trustee, Executive Council; 2002-2004, Member, SIP Logo Committee; 2002-2004, Chair, Nematode Division; 2000-2002, Member-at-large, Nematode Division, Society for Invertebrate Pathology. Symposia chair and organizer (2008, 2007, 2004, 2002 meetings).

Editorial service (most recent). 2007-present, International editorial board member, *Biocontrol Science and Technology Journal*; 2002-2006, Associate editor, *Journal of Nematology*, *Society of Nematologists*. 1997-present, Editorial board member, *Nematologia Mediterranea*.

Other service. 2008-present, Director, NEMASYM (Nematode-Bacterium Symbioses), Research Coordination network; 2003-2004, Vice-chair, Entomophilic Nematode Division, Society of Nematologists, USA; 2004-present, member,

Awards Committee, Society of Nematologists, USA; 1999-2001, Chair, Entomophilic Nematodes Division, Society of Nematologists, USA; 1999-2002 Member, Systematics Resources Committee, Society of Nematologists, USA; 2007, Panelist, Doctoral Dissertation Program, National Science Foundation, USA; 2008, 2004, 2001, Panelist, National Science Foundation, USA.

Memberships:

Society for Invertebrate Pathology (since 1994) (Microbial Control, and Nematode Divisions), Society of Nematologists (since 1994), Organization of Nematologists of Tropical America (since 2003); Entomological Society of America (since 2005), International Symbiosis Society (since 2009).

Interests:

My research interest is biodiversity of insect-parasitic and pathogenic nematodes and their role in ecosystem function. One of my current interests is the study of *Steinernema* nematodes and their bacterial symbionts (*Xenorhabdus* spp.) as models for understanding mutualistic interactions between animals and microbes. Furthermore, we also investigate evolutionary histories of both nematode and bacterial symbionts considering a multi-gene repertoire and study co-evolutionary histories and diversification of these two partners. I also have an interest on nematode biotic surveys and inventories from different geographic regions of the world, which allow me to make significant contributions toward the discovery of new species, the understanding of the ecology and behavior of insect-parasitic nematodes and their consideration in biological control and integrated pest management programs. Additionally, I am interested in studying the ecology and genetics of nematode populations from agricultural and natural ecosystems, particularly the study of host-parasite relationships and interactions. I have authored and co-authored more than 100 refereed papers, nine chapters in books and edited one book on molecular approaches and techniques for the study of insect pathogens.



Kelly Hoover – Nominee for Treasurer

Education:

B.S. (1979) in Biology of Natural Resources from University of California, Berkeley; M.S. (1992) in Biology from California

State University, San Jose; Ph.D. (1997) in Entomology from University of California, Davis.

Experience:

1997-98: University of California President's Postdoctoral Fellow, UC Berkeley (Plant & Microbial Biology); 1998-2004: Assistant Professor of Entomology, Penn State University, University Park, PA; 2004-2010: Associate Professor of Entomology, Penn State University; 2007: 3 month sabbatical at Laboratory of Virology, Wageningen University, The Netherlands; Professor of Entomology, Penn State University 2010-present.

Professional Activities (selected):

Society for Invertebrate Pathology. SIP Treasurer (2010-present); Member-at-Large of the Virus Division (2002-2004); Chair of the Organizing Committee for SIP annual meeting in Anchorage, Alaska (2005); Member of the SIP Meetings

Committee (2006-present); Treasurer/Secretary of the Virus Division (2008-10); Chair of the Endowment and Finance Committee (2009-2010).

Entomological Society of America. Member of the International Congress on Insect Neurochemistry and Neurophysiology (ICINN) Student Recognition Award in Insect Physiology, Biochemistry, Toxicology, and Molecular Biology (2009-2011).

Memberships:

Entomological Society of America (since 1995), Society for Invertebrate Pathology (since 1997), International Forestry Quarantine Research Group (since 2006).

Research Interests:

I have broad interests in insect pathology and microbial-insect symbioses. I'm intrigued by the complex co-evolutionary relationships between baculoviruses and their insect hosts, especially mechanisms of resistance and the role of viral genes in overcoming host defenses. These studies may lead to improvements in the use of baculoviruses as microbial control agents. I'm also studying gut microbial symbionts of wood-boring beetles, which include a diversity of bacteria and a symbiotic fungus in the *Fusarium solani* clade. The goal of this project is to determine how phytochemicals in resistant tree species impact the structure and functions of the beetle's gut microbial community. I've been Treasurer of SIP for 2 years.

Trustee Nominees



Ed Lewis – Nominee for Trustee

Education:

B.S. (1981) Natural Resource Conservation, Cornell University; M.S. (1987) Entomology, University of Missouri-Columbia. Thesis title: Phase variation and chemical orientation of the black cutworm moth, *Agrotis ipsilon*

(Hufnagel); Ph.D. (1991) Entomology, Auburn

University. Dissertation title: Biological function and physical characteristics of stridulatory communication of *Ips* pine bark beetles.

Experience:

1991-1995: Postdoctoral researcher, Rutgers University Department of Entomology. This was my first foray into insect pathology (and when I first joined SIP). I worked with Randy Gaugler on host finding and recognition behaviors of entomopathogenic nematodes. 1995-1998: Postdoctoral researcher, University of Maryland Department of Entomology. 1998-2004: Assistant Professor, Virginia Tech Department of Entomology. I continued working with entomopathogenic

nematodes, and was responsible for developing biological control programs for insect pests of turfgrass and ornamental plants. 1998-2000: Associate Professor, University of California-Davis Department of Entomology and Department of Nematology. My research areas include biological control of insects with pathogens, soil ecology and behavioral ecology. 2000-present: Professor, Department of Entomology and Nematology, University of California, Davis.

Professional Activities (selected):

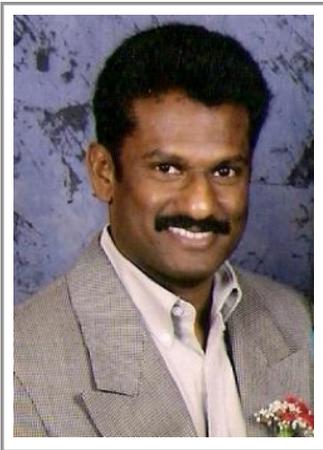
2010-2012: Chair Entomopathogenic nematode subcommittee, SIP; 2010-current: Editor, *Biological Control*; 2009-current: Editor, *Biopesticides International*; 2010: Panel member, USDA-AFRI Sustainable bioenergy research feedstock crop protection panel; 2010: Peer Review Panel, Sustainability and IPM. This panel reviews 5-year research plans submitted by USDA research scientists; 2011-present: Vice Chair, Department of Entomology and Nematology, UC Davis; August 2011-February 2012: Acting Chair, Department of Entomology and Nematology, UC Davis.

Teaching:

Behavioral Ecology of Insects: upper level undergraduate class of approximately 260 students. Biological Control of pests: upper level undergraduate class of approximately 20 students.

Research Interests:

My research program is wide-ranging in the scope of the questions asked and in the taxa studied. There is, however, a common thread to the work that takes place in my laboratory. That is, we seek to understand why and how organisms find, recognize, assess and exploit resources. We ask questions about how insects and nematodes make decisions about resource utilization and what the fitness outcomes of the decisions are. To answer these kinds of questions, we engage in studies of behavior, population ecology, community ecology and evolutionary biology with several groups of insects, nematodes and bacteria. There are also intentional links to more practical pursuits including biological control of crop pests, predicting the impact of crop management on pest and beneficial organisms and soil ecology.



**Surendra Dara –
Nominee for Trustee**

Education:

Ph.D. (1995) Virginia Polytechnic Institute and State University, Blacksburg, USA; B.Sc. (1989) and M.Sc. (1991) in Entomology, Andhra Pradesh Agriculture University, Bapatla, India. Postgraduate diploma in Applied Information

Technology (2001) Information Technology Institute, Calgary, Canada.

Experience:

2009-present: Strawberry and Vegetable Crops Advisor, UC Cooperative Extension, San Luis Obispo, CA; 2006-2009: Quality Control Manager, Certis, Wasco, CA; 2004-2006: Assistant Project Scientist, UC Davis, Shafter, CA; 2003-2004: Post-doctoral Associate, University of Houston, Houston, TX; 2001-2002: Software Consultant, Canada;

1996-1999: Post-doctoral Entomopathologist, International Institute of Tropical Agriculture, Cotonou, Republic of Benin.

Professional Activities:

Responsible for research and extension activities for strawberries and vegetables in Santa Barbara and San Luis Obispo counties in California. Member of the technical working group on European pepper moth. Regularly write extension articles for magazines and online resources that are read by thousands of clientele and give talks at extension education meetings. Reviewer for various scientific journals and serve as a judge for student competitions at the Entomological Society of America (ESA) annual meetings. Initiated and moderate the Entomopathologists Network online for ESA. Trained the growers in the Republic of Moldova on strawberry cultivation through an international aid project (2010-2011).

Memberships:

Entomological Society of America, Society for Invertebrate Pathology, and Phi Sigma Biological Sciences Honor Society.

Contributions to SIP:

Newsletter editor (2010-2011), Microbial Control Division Chair (2009-2011), Chair-elect (2007-2009), organizer for symposia at the annual meetings in China (2006), USA (2009), and Argentina (2012) and a workshop in Turkey (2010). Chaired meeting sessions in Halifax (2011) and judged student posters and oral presentations at various meetings.

Research interests:

My entomopathology career started in 1992 and my first SIP meeting was in 1993 in Asheville, NC. Except for a brief hiatus to explore the IT industry, I have been fortunate to continue as an

entomopathologist working with fungi, viruses and bacteria in various capacities at various institutions. When I joined UCCE a few years ago, I have noticed a huge underexplored area of microbial control for strawberry and vegetable pest management in a geographical area that is ideal for entomopathogens. My work in the past few years is making progress in increasing awareness of microbial control potential in the grower community. My goal is to promote microbial control as a significant component of IPM in the area of my responsibility.

**Grant Stentiford –
N o m i n e e f o r
T r u s t e e****Education:**

B.Sc. (1997; Hons. 1st class) in Life Sciences from the University of Nottingham, UK; Ph.D. (2000) in aquatic invertebrate pathology from the University of Glasgow, UK.

Experience:

Pathologist at the Centre for Environment, Fisheries and Aquaculture Sciences (Cefas), Weymouth Laboratory, UK. Area of Research: fish, molluscan and crustacean pathology and pathogens. 2009-present: Cefas Pathology and Molecular Systematics Team Leader. Area of research: Integration of pathology disciplines with molecular systematics. 2008-present: Director of the European Union Reference Laboratory for Crustacean Diseases. Area of research: viral diseases of crustaceans, particularly those listed in European and global legislation. I am currently Subject Editor for 'Crustacean Diseases' for the *Journal Diseases of Aquatic Organisms* and regularly review articles for a range of other disease and marine ecology journals.

Memberships:

I have been a member of the Society for Invertebrate Pathology since 2008 when I attended

my first SIP meeting in Warwick, UK. Since then, I have attended the meetings in Utah (2009), Trabzon (2010) and Halifax (2011). My somewhat strange introduction to the SIP was to immediately formulate the terms of reference for a new Division (Diseases of Beneficial Invertebrates) and to chair the Division in its formative years. Now three years in, the Division will be handed to the current vice-chair, Dr. Elke Genersch, who has aided this process and told me much about diseases of flying invertebrates!

Contributions to the SIP:

2008-present: Chair of Division of Diseases of Beneficial Invertebrates; Member of Microsporidia division. Organiser of several DBI and joint symposia and workshops at the meetings in Utah, Trabzon and Halifax. Organiser and chair of the OECD-funded symposium on 'Disease and Food Security' aligned with the SIP meeting in Halifax. Guest editor of two recent special volumes of *Journal of Invertebrate Pathology* (Diseases of Crustaceans 2011, and Disease and Food Security 2012). Attempting to increase the membership of aquatic pathologists in the SIP.

Research Interests:

My current research focuses on aquatic invertebrate pathogen taxonomy and pathology, pathogens of invasive aquatic invertebrates, molecular host-pathogen interaction in invertebrates, pathogens and disease in commercially exploited aquatic invertebrate populations and integration of pathology and molecular disciplines in disease investigation.



**Hyun-Woo Park—
Nominee for
Trustee**

Education:

Ph.D. in Entomology (1999) University of California, Riverside; M.S. (1995) and B.S. (1990) in Agricultural Sciences, Seoul National University, Korea.

Experience:

2009-present: Associate Professor of Biology, Department of Natural and Mathematical Sciences, California Baptist University (USA); 2005-2009: Assistant Professor of Entomology, John A. Mulrennan, Sr., Public Health Entomology Research & Education Center, Florida A&M University (USA); 2001-2005: Assistant Research Entomologist, Department of Entomology, University of California, Riverside (USA); 2000-2001: Post-doctoral Fellow (2000-2001), Department of Entomology, University of California, Riverside (USA).

Professional Activities:

I have been a member of the SIP since 1998, and served the SIP as Secretary/Treasurer (2005-2007), Chair-Elect (2007-2009) and Chair (2009-2011) of the Bacteria Division. I have been a member of the Student Travel Award Committee of the Bacteria

Division, and a member of the Awards & Student Contest Committee of the SIP. Also, I have been actively participating in the activities of the SIP by serving as jurors of Mauro Martignoni Award and Student Presentation Awards, and a chair of the Contributed Paper Sessions of the SIP meetings. Lastly, I have been serving as a member of the Editorial Board of Biotechnology Letters (2011-present).

Memberships:

Society for Invertebrate Pathology (1998-present). American Mosquito Control Association (2007-present). American Society for Microbiology (2006-present). Entomological Society of America (2006-present).

Areas of interest:

My research interests focus on the molecular mechanisms that control synthesis and crystallization of endotoxins produced by the entomopathogenic bacteria, *Bacillus thuringiensis* and *B. sphaericus*. Improving our knowledge of these aspects of endotoxin molecular biology is of both basic and applied value. A better understanding of the various genetic elements that control high levels of endotoxin synthesis is not only furthering our knowledge of protein synthesis in general, but is also contributing to the development of improved insecticidal bacteria. To improve our understanding of regulation mechanisms of endotoxin synthesis, my current research focuses on furthering our knowledge of the several genetic elements that play in this process.

A random number generator was used to determine the order of nominees presented in the Newsletter



Punte de la Mujer: A footbridge in the Puerto Madero District of Buenos Aires, Argentina. It allows water traffic to pass by pivoting open!

Honorary Member Nominees

Elisabeth (Betty) Davidson – Nominee for Honorary Member



Statement in support of honorary status.

Dr. Davidson completed her B.Sc. at Mount Union College, Alliance, Ohio in 1964 and her M.Sc. in 1967 and Ph.D. in 1971 at The Ohio State University, Columbus, Ohio. She continued at Ohio State as an NIH Postdoctoral

Fellow under the supervision of Dr. W.F. Hink until 1972 at which time she continued on with her career as Instructor, Department of Biology, University of Rochester, New York. In 1973 she was appointed as Faculty Research Associate, thence Associate Research Professor, and finally Research Professor at Arizona State University, Tempe where she remains until present. During her tenure at Arizona State, she was also a Visiting Research Professor or Scientist at the Department of Zoology, Cambridge University, Cambridge, England; U.S. Department of Agriculture European Biocontrol Laboratory, Montpellier, France; Institute of Molecular and Cell Biology, National University of Singapore; University of Zurich, Zurich, Switzerland; and Monash University, Melbourne, Australia.

Description of Professional Accomplishments.

Betty is best recognized for her research on microbial control of mosquitoes, namely with *Bacillus sphaericus*. Her pioneering research on the identification of toxins produced by this bacterium and on its role in pathogenesis led to its eventual development and registration as a microbial mosquito control agent. More recently, Betty's research has concentrated on a devastating disease of amphibians and exploration of potential microbial control agents for invasive crayfish. She has published over 100 papers among which one is in the journal *Nature*. She has authored a book entitled *Big Fleas have Little Fleas: Why diseases of lower animals are important to mankind* which received the 2008 Choice Award for

Outstanding Academic Publication by the Association of College and Research Libraries. She has also co-authored a book and co-edited four others, among which is the frequently cited *Safety of Microbial Insecticides* co-edited with Lerry Lacey and Marshall Laird. She served on the Editorial Board of the *Journal of Invertebrate Pathology* between 1983 and 1987 and has provided numerous peer reviews for a variety of journals.

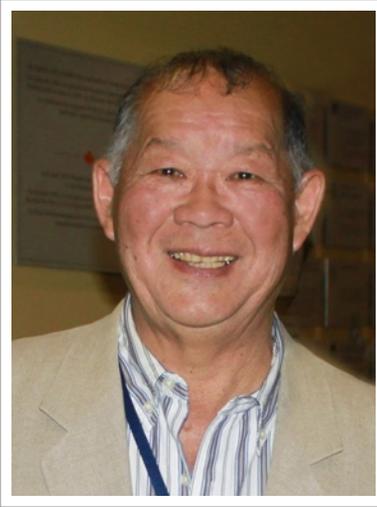
Honors & Awards.

Betty was honored by the Society as the Founders' Lecturer honoring Dr. John D. Briggs at the annual meetings in Halifax in 2011. Other honors and awards include: Choice Award, American Libraries Association, for *Big Fleas have Little Fleas*, 2008; Mount Union College Outstanding Alumni Award, 2005; American Men and Women of Science, 1976- present; Society for the Sigma Xi, National Research Honorary, 1971; Cum Laude, Mt. Union College, 1964; Phi Sigma Biology Award to Outstanding Senior in Biology, 1964; Psi Kappa Omega, Academic Honorary, Mt. Union College, 1964; Alpha Lambda Delta, Freshman Women's Honorary, 1961; General College Scholarship, Mt. Union College, 1960-64; and Ohio Parent-Teacher Association Scholarship for Teachers, 1960-64.

Service to the Society of Invertebrate Pathology.

Betty has been a dedicated supporter of the Society since 1968. Her elected positions include Secretary (1984- 1986); Vice-President (1988-1990); President (1990-1992) and Past-President (1992-1994). She has also served as Local Arrangements Chairman of the meetings in Tempe Arizona (1974) and Flagstaff, AZ (1991); Member of the Nominating Committee (1977); Chairman of the Safety Working Group (1980-83); Chairman of Publications Board (1983-84); Member of the Microbial Control Division (1984-present); Foreign Travel Committee (1986); Chairman, Endowment Committee (1986-1990); Ad-hoc Committee for the Journal of Invertebrate Pathology (1987); Ad Hoc Committee for a Home Office (1989-92); Newsletter Editor (1991-93); Assistant Newsletter Editor (1993-95); Nominating Committee (1993); New Initiatives Committee (1995-6); Bylaws Revision Committee (1996); and Chair, History Committee (2003-present).

Harry Kaya – Nominee for Honorary Member



Statement in support of honorary status.

Harry received his Bachelor's and Master's degrees in Entomology from the University of Hawaii and his Doctorate in Entomology from UC Berkeley. He joined the University of California Davis faculty in 1976 and chaired the

Department of Nematology from 1994-2001. He retired in July 2010 and presently remains as a Distinguished Professor Emeritus at the University.

Description of Professional Accomplishments.

Harry is internationally recognized for his work on the biology, ecology and application of entomopathogenic nematodes. The overall objectives of his research were to develop entomopathogens as control agents to reduce the pesticide load in the environment and to have a basic understanding of the ecology and behavior of insect parasitic nematodes. Recent programs included the impact of scavengers on entomopathogenic nematodes, behavioral resistance of termites to nematodes, control of Andean weevils in tubers, and the use of fungi for management of the glassy-winged sharpshooter. He has published over 250 papers on these topics which include one each in *Nature* and *Science*. Harry co-authored 1 book and co-edited 6 books. *Insect Pathology*, co-authored with Yoshinori (Joe) Tanada, is a standard reference in insect pathology and a second edited edition with Fernando Vega was recently published. The ever popular *Field Manual of Techniques in Invertebrate Pathology* co-edited with Lerry Lacey has also seen a second edition being published. Harry has served as Co-Editor of the journal *Biological Control* (1991 - 2006) and its Editor-in-Chief (2006 - 2010).

Honors & Awards.

Harry was honored in 1999 by the SIP at its annual meetings in Irvine as the Founder's Lecturer with Professor Y. Tanada as the Honoree. Other honors and awards include: NSF Undergraduate Fellowship in Entomology, 1960-1962; Fushiminomiya Memorial

Scholarship Endowment Fund, 1961; Public Health Predoctoral Fellow, 1966-1970; Outstanding Graduate, College of Tropical Agriculture and Human Resources, University of Hawaii, 1990; JSPS Fellow for Research in Japan, 1993; C. W. Woodworth Award, Pacific Branch, Entomological Society of America (ESA), 1998; Fellow, Society of Nematologists, 2000; Distinguished Achievement Award in Entomology, Pacific Branch, ESA, 2000; Recognition Award in Entomology, ESA, 2000; Fellow, ESA, 2007; Distinguished Professor, UC Davis, 2009.

Service to the Society for Invertebrate Pathology.

Harry has been a firm supporter and active member of the SIP since 1967 and has attended almost all of its Annual Meetings. He has served the Society most notably as Vice President, 2000-02; President, 2002-04; Past President 2004-06. In addition, he was Chair of the New Initiatives Committee, 1984-86; Treasurer, 1992-96; Chair, Local Arrangements Committee, 1984 (Davis, CA); Member, Local Arrangements Committee, 1999 (Irvine, CA); and Member of the Founder's Lecturer Committee from 1998 to 2002. Presently, he serves as a Member of the Founder's Lecturer Committee since 2008, Nominations and History Committees since 2006, and Book Review Editor for the SIP Newsletter since 2010.

Graduate Students, Post docs and Scientists.

Harry has mentored a number of M.S. and Ph.D. students and post doctoral fellows and has had visiting scientists from various countries in his laboratory. The Ph.D. students include Arnold Hara (Professor, University of Hawaii), Robin Giblin-Davis (Professor, University of Florida), Phyllis Weintraub (Entomologist, Volcani Institute, Israel), Raquel Alatorre Rosas (Professor, Colegio de Postgraduados, Chapingo, Mexico), Mary Barbercheck (Professor, Penn State University), Patricia Timper (Nematologist, USDA), Jim Campbell (Entomologist, USDA), Rick Dunkle (APHIS), and Lien Luong (Post doc, Penn State University). Post docs include Albrecht Koppenhöfer (Rutgers University), Graham Thurston (Canadian Forestry Service) and Matthew Baur (Dupont). Visiting foreign scientists to Harry's lab include Ho Yul Choo (Republic of Korea), Selcuk Hazir (Turkey), Patricia Stock (Argentina, now at University of Arizona), Jesus Alcazar (Peru), Aki Fujimoto (Japan), Tatyana Stefanovska (Ukraine) and Jaime Vega Ruiz and Jaime Ochoa Molina (Mexico).

Lerry Lacey – Nominee for Honorary Member



Statement in support of honorary status.

We are proud to nominate Dr. Lawrence ‘Lerry’ Lacey for Honorary Status and provided a brief synopsis of Dr. Lacey’s professional accomplishments and service to the Society of Invertebrate Pathology.

Description of Professional Accomplishments.

Lerry is internationally recognized for his work in medical entomology, insect pathology and microbial control of economically and medically important insects. He has published 150 scientific papers, edited and co-edited 6 books, and authored a book length journal supplement. His publications are highly sought such that *The Manual of Techniques in Insect Pathology* is in its second printing and the second edition of the *Field Manual of Techniques in Invertebrate Pathology* has recently been published. The Insect Pathology Manual designed by Dr. Lacey remains a staple of teaching techniques for experienced insect pathologists, biologists and entomologists who are beginning work with entomopathogens. The Field Manual, co-edited with Dr. Harry Kaya, covers the practical application and evaluation of entomopathogens for control of insect pests in a wide variety of crop systems and provides a comprehensive source of information and training material to diversified audience. Lerry has co-edited two additional books; one on safety of entomopathogens and one on the integrated pest management of the potato tuber moth. Dr Lacey’s papers have been cited >1,600 times in the Scopus database alone, indicating the wide impact of his work amongst his peers. In addition to authoring key sources of information, Lerry has also served science as a member on the editorial boards of the *Journal of Invertebrate Pathology*, *Journal of Medical Entomology*, *Environmental Entomology*, *Journal of Economic Entomology*, and *Bulletin of Vector Ecology*.

Dr Lacey is perhaps best known for developing and advancing microbial control methods. For the first 17 years of his career, Lerry studied the biology and microbial control of biting flies. Lerry completed his graduate studies at the University of California, Riverside under the tutelage of Dr. Mir Mulla, where he developed methods to evaluate *Bacillus thuringiensis* and diflubenzuron as biocides for black flies (Diptera: *Simuliidae*). Lerry quickly progressed, obtaining positions with the National Institute of Amazonian Research, Medical Sciences in Brazil and World Health Organization, Onchocerciasis Control Programme in West Africa. His significant accomplishments include being (1) the first to demonstrate the potential of *Bt* varieties for control of black flies and (2) providing technical support to implement *Bti* as a replacement for chemical insecticide programs for mosquitoes. His research contributed directly to the registration of *Bti* for control of biting flies in the USA and Brazil. Lerry continued this work in the US with USDA-ARS positions in Florida and a USAID contract in Virginia. During this time he worked on development of *Bti* for control of mosquitoes, resulting in new varieties and strains and the development of improved formulations and application techniques. His pioneering research with *Bacillus sphaericus* revealed its potential as a biological control of medically important mosquito species. The resulting commercialization of *B. sphaericus* represented a significant advancement in the environmentally safe control of mosquitoes. Lerry also provided training and technical assistance to US-funded health workers to manage vector-borne diseases using these microbial control products.

Lerry’s scientific skills and fluency in Portuguese made him the perfect choice to lead the USDA (ARS/OIRP and FAS/OICD) Japanese beetle Biological Control Project on Terceira Island (Azores, Portugal). Over the next 3 years, Lerry and colleague Mike Klein implemented a biocontrol based program for the suppression of the Japanese beetle using traps to disseminate a native strain of *Metarhizium anisopliae* fungus on Terceira Island and developed facilities for pathogen production to ensure the project’s continued success.

From the Azores, Lerry moved to France to take a position with the USDA-ARS for the European

Biological Control Laboratory. Over the next five year, Lerry developed microbial controls for whiteflies which were having a devastating effect on U.S. Agriculture. Lerry and his graduate students designed improved bioassay methods and determined the effects of biotic and environmental factors on the activity of entomopathogenic fungi. Lerry conducted extensive foreign exploration for fungal pathogens of *Bemisia tabaci* throughout Southern Europe and Asia with Dr. Alan Kirk. Over 400 genetically diverse isolates of fungi from whiteflies and other insects (archived in France and the US) are available to researchers as a result of these efforts.

In 1996, Lerry returned to the U.S., accepting a position with the USDA-ARS laboratory in Yakima, WA. In this position, until he officially retired in 2010, Lerry implemented a comprehensive insect pathology program targeted against insect pests of tree fruit and more recently potato in the Pacific Northwest. Lerry has worked extensively with USDA, university and industry colleagues to evaluate entomopathogenic nematodes, viruses, bacteria, and fungi for control of significant pests including the codling moth, Colorado potato beetle, leafrollers and potato tuber moth, amongst others. Notably, Lerry was the first to demonstrate the feasibility of using entomopathogenic nematodes against western cherry fruit fly, oriental fruit moth, and overwintering codling moth in fruit bins. From 1997 until 2010, Lerry has been at the forefront of developing and promoting the commercial use of the codling moth granulovirus (CypoGV) in North America. The codling moth granulovirus has since become one of the most widely used insecticidal viruses in North America. Lerry was the first in North America to evaluate the potato tuber moth granulovirus (PhopGV) for use against this invasive pest under both field and storage conditions. Lerry was also the first to demonstrate insecticidal activity of the biofumigant fungus *Muscador albus* and its potential in post-harvest control of potato tuberworm and codling moth.

Although retired from federal service, Lerry is still active in the profession and maintains a consultant role, as CEO of IP Consulting International!

Honors and Awards.

Lerry has received numerous awards, such as the USDA-ARS Pacific West Area EEO Award in 2004, recognition of Meritorious Service by the Azorean Regional Government, and being elected as Fellow of the Entomological Society of America in 2008.

Service to the Society of Invertebrate Pathology.

Lerry has not only been an active social member of the SIP for over 30 years, but has served the society in an official capacity continuously since 1982 when he was recruited to the membership committee. Since then, Lerry has served as Secretary 1990-1992; Trustee 1992- 1996; Division of Microbial Control: Chair 1999-2001, Secretary-Treasurer, 1983-1985, 1995-1997; Member-at-large 1989-1991; Nematology Division: Member-at-large (2005-2007); Membership committee: 1982-2002, Chairman 1984-1986; Safety Committee: Chairman, 1983-1987; Endowment Committee: 1989-1994, Chairman 1991-1992; Meetings Committee, 2002- present, current chair.

Lerry served on the Scientific Program and Local Arrangement Committees for the organization of the VIth International Colloquium on Invertebrate Pathology, Montpellier, France, August 28- September 2, 1994, and the Scientific Program Committee for the organization of the VIIIth International Colloquium on Invertebrate Pathology and Microbial Control, Foz de Iguaçu, Brazil, August 18-23, 2002.

In summary, we believe that there are few members of SIP who have such a long- standing and significant contribution to the society and hence we nominate him for Honorary Status.



S1024 Group: 2012 Meeting

A small but lively group attended the annual meeting of the S1024 working group: Discovery of entomopathogens and their integration and safety in pest management programs, in Naples, FL, on 5th February. The meeting was called to order by David Shapiro-Ilan (Project Chair). Updates were provided for progress within the various project sub-objectives, (1) Major acreage crops (Mark Boetel), (2) Ornamentals, vegetables, fruit and nuts (Patricia Stock), (3) Urban and natural landscapes (Ed Lewis) and (4) Medical, veterinary and structural pests (David Oi). Leonard Rogers (LSU) gave an encouraging report on the status of the 5-year project renewal, which was submitted late 2011, and is currently awaiting official approval. Guest speaker Robert Gilbert (University of Florida) gave an informative presentation on “Energy cane development program for cellulosic ethanol”. The group discussed various ways in which microbial control might fit within pest management objectives for low-input biofuel crops. To encourage attendance at future meetings, the group also discussed incorporating the annual S1024 working group meeting within larger meetings (with an alternating ESA/SIP format favored). Due to federal grant restructuring, the group also agreed to write a letter to AFRI promoting the need for microbial control.

The following participants were in attendance:

David Shapiro-Ilan (ARS-Bryon), Mark Boetel (NDSU), Steven Arthurs (UF), Ellie Groden (UMaine), Ed Lewis (UCDavis), Patricia Stock (UArizona), David Oi (ARS-Gainesville), Jarrod Leland (Novozymes), Denny Bruck (ARS-Corvallis), Todd Ugine (Cornell), Surendra Dara (UC CoOp Ext), Rogers Leonard (LSU), John Bartlett (Barricade), Nemat Keyhani (UF), Robert Gilbert (UF)

After the meeting, attendees thankfully caught up on super bowl action at Mr. Tequilas. Such a work/sporting conflict is what happens when you British organize things. Congratulation to Denny Bruck (ARS Corvallis) who becomes the new S1024 project chair while Steve Arthurs (University of Florida) becomes the vice-chair. Surendra Dara was voted in as the new Member-at Large. Thanks for David Shapiro Ilan for his excellent chairmanship.

Steven Arthurs, local arrangements 2012 S1024 meeting.



S1024 Group Members in Attendance of 2012 Meeting

Insect Pathology Short Course in La Plata, Argentina

SIP members from Argentina and the USA teamed up in June 2011 to conduct a one-week Insect Pathology & Microbial Control Short Course at the University of La Plata, Argentina. The course was organized by Alicia Sciocco - Cap (IMYZA-INTA: National Institute of Agricultural Technology), Victor Romanowski (IBBM: Institute of Biotechnology and Molecular Biology; University of La Plata and National Research Council) and Claudia López Lastra (CEPAVE: Center for Vectors and Parasite Research, University of La Plata and National

Research Council). A group of local researchers and graduate students from the University of La Plata (CEPAVE and IBBM) and INTA collaborated to assist with developing the course. Instructors were Lerry Lacey (IP Consulting International), Richard Humber (USDA-ARS) and Lee Solter (University of Illinois). The 20 participants were graduate students, junior researchers and entomologists at private companies from several provinces of Argentina.



Richard Humber lectures on entomopathogenic fungi



Richard Humber and Lerry Lacey assist with a lab exercise



Insect Pathology Short Course participants, organizers and lecturers in La Plata, Argentina

Announcements

Position announcements are moving to the SIP web site!

To aid in the timely announcement of open positions, SIP will now be publishing Position Announcements exclusively on the SIP website. Please use the Position Announcement Submission Form on the SIP website to get your announcement posted. We encourage job seekers to check the postings often as they are regularly updated.

Two POSTDOCTORAL RESEARCH ASSOCIATE full time term positions are available at Kansas State University to study mechanisms of arbovirus midgut escape in mosquitoes. Applicants must have a Ph.D. degree in the Biological Sciences, with research experience in vector biology, entomology, molecular biology or biochemistry with a minimum of two (at least 1 as first author) publications in English in international journals. Experience working with viruses is preferred but not necessary. Qualified applicants should be able to work independently and as a team, and have excellent technical, organizational, and verbal and written communication skills. The position includes a competitive salary plus benefits. Review of applications will begin January 9, 2012 and will continue until the positions are filled. Submit a cover letter describing prior experience and research interests and résumé to biology@ksu.edu using "virology postdoc" in subject line. Arrange for three referees to send letters of reference to the same address. Questions should be addressed to virology@ksu.edu.

Position available: Senior Research Scientist - Entomologist

Our Global Research Group at Valent BioSciences Corporation has a career opportunity for a Senior Research Scientist in our Long Grove, IL research center, which is located 25 miles northwest of Chicago. Description of Position: Responsible for organizational leadership and scientific expertise in entomology and research related to biorational pesticides. Designs experimental protocols for lab, growth chamber, greenhouse, and field experiments and implements hands-on studies, as appropriate. Conducts data analysis and interpretation and prepares experimental reports, summaries and recommendations. Prepares and presents technical presentations for internal and external audiences. Oversees the establishment and/or maintenance of insect colonies for internal and/or external research, GLP studies for product registration, and product release purposes. Works across other Research groups, Field Development, Formulations, Manufacturing, QA/QC, Regulatory Affairs, and Business Management. Candidate should have a Doctorate degree in entomology with 3-5 years of post-graduate experience that also includes R&D work in microbiology, especially *Bacillus* sp. Please visit our career web site for more information: www.valentbiosciences.com

Position available: Invertebrate Zoologist

The successful candidate is expected to teach a variety of undergraduate courses for majors and nonmajors which may include Introduction to Environmental Sciences, General Zoology, Environmental Pollution Control, and courses in his/her area of expertise such as an upper level Invertebrate Zoology course. S/he will be responsible for assisting with the further development of the Department's invertebrate teaching collection and for developing an externally funded research program involving students. The candidate must be field ambulatory to lead field trips in the abovementioned courses. A Ph.D. in Zoology/Biology or related field is required, and college teaching experience is preferred. Contact Brian K. Paulson for more information: paulson@calu.edu

Position available: PhD in Bee Health: host-parasite interactions and landscape complexity

The Ph.D. project will aim to achieve an integrated study of key factors that determine the general health of bees. Emphasis will be on honeybees but additional interfaces relevant for bumblebees and/or solitary bees can be considered. Topics to be addressed may include: 1) Multivariate analyses of large-scale monitoring data already collected from Danish apiaries, 2) Assessment of fitness parameters in landscapes of varying heterogeneity, 3) Quantifying parasite pressure in apiaries, 4) Behavioural studies of disease transmission. A full length of the advertisement can be found on the University webpage http://www.ku.dk/english/available_positions/vip/

More Announcements

Position available: PhD student “Exploring synergistic interactions of entomopathogenic fungi, nematodes and semio-chemicals to control insect pests”

We are seeking a highly motivated, team-oriented candidate with a strong interest in applied agricultural research. Applicants should hold a master level degree in agronomy, biology or applied environmental sciences with excellent grades. Affinity to applied entomology and mycology is essential. Experience in the design of field experiments would ideally complement your curriculum. Teamwork in the group and with international partners requires good knowledge of German and English. The EU-project INBIOSOIL aims to exploit synergetic effects among entomopathogenic fungi, nematodes, semiochemicals and low-dose chemicals for biological control of subterranean herbivorous insect pests. In the frame of this project, you will elucidate the virulence of biocontrol organisms and establish interactions between bio compatible approaches and minimum doses of chemical pesticides in order to reach a sustainable integrated pest management approach. In close collaboration with another Ph.D. student developing molecular diagnostic tools, you will also monitor entomopathogenic organisms applied in both controlled environment and under field conditions. Tasks include laboratory bioassays, climate chamber and field experiments, statistical analyses, data interpretation as well as presentation and publication of results for both growers and the international scientific community. Deadline for application: 29 February 2012. Please mention the keyword “INBIOSOIL – Ecological Plant Protection” in your cover letter. Applicants should submit a complete academic record, CV, statement of research interests, copy of certificates, and addresses of 2 to 3 potential referees to: Agroscope Reckenholz-Tänikon ART, Fachgruppe Personal, Thomas Zehnder, Reckenholzstrasse 191, 8046 Zürich, Switzerland or to human_resources@art.admin.ch. Questions should be addressed to susanne.vogelgsang@art.admin.ch More information is available at www.agroscope.ch

Position available: Tenure-track Professor in the Department of Entomology

The Department Entomology at National Taiwan University invites applications for a faculty position (open rank) in Entomology. The starting date of employment is August 1, 2012. Preference will be given to those with research emphasis on insect pathology, microbial control, or pest management. Applicants must hold a Ph.D. and have at least one year of postdoctoral experience. Successful candidates will demonstrate excellence in teaching and research and have a good command of English. Applications should include a cover letter (indicating rank for which the application is considered), curriculum vitae including a portrait photo, statements of research and teaching interests, a copy of Ph.D. diploma, reprints of all publications since August 1, 2005 and two letters of recommendation. The single most significant publication (since August 1, 2007) should be identified in the cover letter as a representative paper for further review. Shortlisted candidates are expected to attend an on-site interview in Taiwan. Applications should be submitted to Professor Chiun-Cheng Ko, Department of Entomology, National Taiwan University, No. 1, Sec. 4, Roosevelt Road, Taipei 10617, TAIWAN. The application deadline is January 31, 2012. Inquiries about position specifics can be directed to Prof. Ko (kocc2501@ntu.edu.tw). For further information please visit the Department website at <http://www.entomol.ntu.edu.tw/>.



New Books

Insect Pathology, 2nd edition

Editors: Fernando E. Vega and Harry K. Kaya

Publication date: January 2012

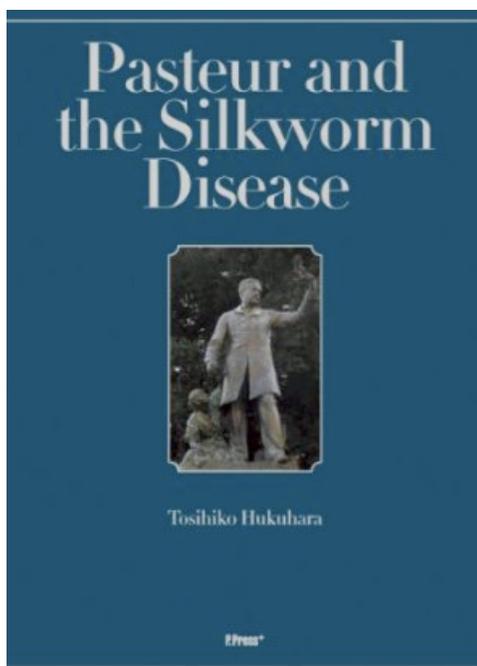
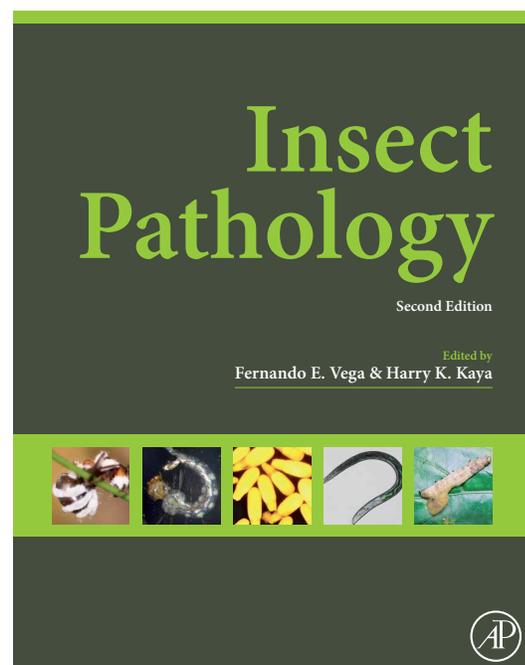
Publisher: Elsevier Press

ISBN-13: 978-0123849847

Price: US\$ 130

Pages: 508

The first edition of Tanada and Kaya's *Insect Pathology* was published in 1993. The field has seen rapid advances in the 20 years since its original publication, and the new edition brings together an essential and updated resource for researchers with 13 chapters. Many of these advances involve new insights on ecology as well as phylogenetics and molecular biology of viruses, bacteria, fungi, microsporidia, nematodes, and protists. All these aspects, as well as basic biology, diagnosis, infectious process and pathogenesis, host response, transmission and more, are covered by renowned experts in their respective fields. The second edition of *Insect Pathology* includes chapters on the history of this discipline, principles of microbial control and epizootiology, diseases of beneficial insects, host resistance, and *Wolbachia*. This thoroughly illustrated and up-to-date revision will provide insect pathologists, entomologists, microbiologists, mycologists, nematologists, protistologists, ecologists, and practitioners of biological control of insect pests with a solid and much-needed reference."



Pasteur and the Silkworm Disease

Author: Toshihiko Hukuhara

Publication date: December 20, 2011

Language: English

Availability: Amazon.com.jp

ISBN-13: 978-1402096471

Price: ¥2500 JPY

Pages: 152

Dr. Hukuhara (Emeritus member of SIP and Emeritus Professor of Tokyo University of Agriculture and Technology) describes the fascinating tale of Louis Pasteur's involvement in discovering the etiological roots for the diseases that were infecting silkworms and decimating the silk industry in Japan.

Topics on the Pathology of Protozoan and Invasive Arthropod Diseases

Editor: Wayne M. Meyers

Coeditors: Adolfo Firpo and Douglas J. Wear

Publication date: June 2011

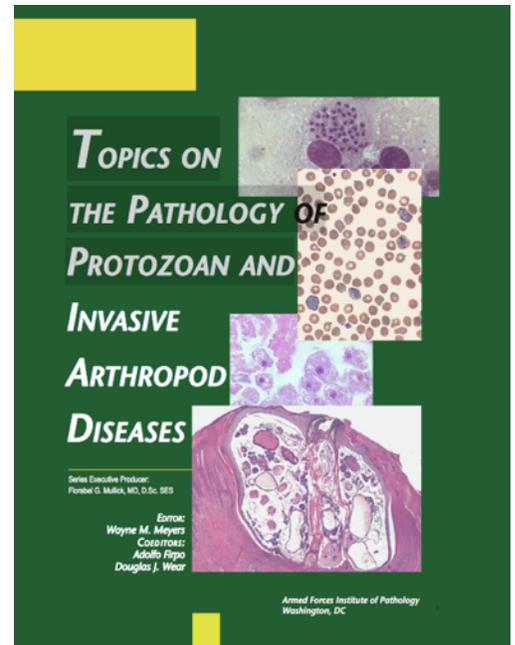
Publisher: Armed Forces Institute of Biology

Accession number: ADA545141

Price: Free

Pages: 287

This e-Book, Topics on the Pathology of Protozoan and Invasive Arthropod Diseases, was originally conceived as a companion volume of our earlier book, Pathology of Infectious Diseases, Helminthiases, published in the year 2000. This publication comes at an appropriate time when there is ever increasing attention being given to the neglected tropical diseases of this world and as world travel is increasing. Pathologists highly experienced in many of the diseases discussed here are often not locally available, increasing the likelihood that accurate diagnoses will be unduly delayed. This e-Book is ideal for researchers and practitioners who need to stay on top of the research in this swiftly moving field. Included in the book is a chapter on human microsporidia authored by SIP member Dr. Ann Cali (Rutgers University).



If you have authored or edited a book and would like it highlighted in the newsletter, please contact the Newsletter editor, Eric.Haas-Stapleton@CSULB.edu



La Boca in Buenos Aires



Downtown Buenos Aires

Memories of SIP in Nova Scotia



Betty Davidson and Don Roberts holding on to their smiles during a wind gust!



Frank Drumond, Travis Glare, Mark Hurst and Ellie Groden enjoying camaraderie of the evening.



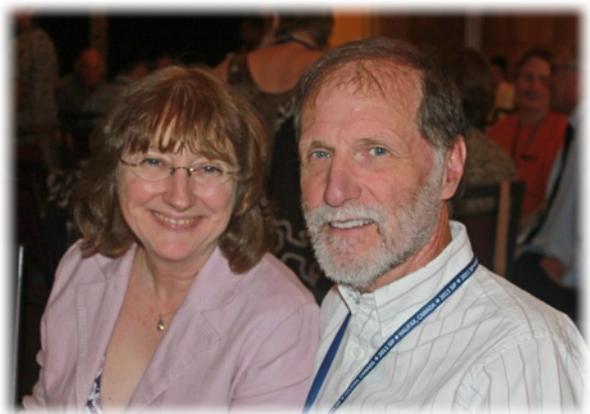
Jarrod Leland Rocks!



Chris Lucaroti, Julien Theze and Onya Opota take the stage



Juan Jurat-Fuentes and Juan Ferre



Cindy and Lerry Lacey