



**40<sup>th</sup> Annual Meeting of the Society for Invertebrate Pathology & 1<sup>st</sup> International Forum on Entomopathogenic Nematodes and Symbiotic Bacteria**  
**Université Laval**  
**Québec City, Québec, Canada**  
**August 12-16, 2007**

**Meeting web site:** <http://www.sip2007Québec.com>

**Arrangements** for the 40th Annual Meeting of the Society for Invertebrate Pathology and 1<sup>st</sup> International Forum on Entomopathogenic Nematodes and Symbiotic Bacteria are progressing well. The scientific events, the Sunday evening mixer and the Tuesday morning 5-K walk/run will take place on the campus of the Université Laval (<http://www.ulaval.ca>) in Ste. Foy, only 10 to 15 minutes from downtown Québec City by car or public transportation. Housing (see conference website for details) will be at the university student residences on campus, at nearby hotels in Ste. Foy and at the Delta Hotel downtown Québec City, where the Thursday evening banquet will be held. Student awards and the Founder's Lecture Award will be presented at the banquet. The Tuesday afternoon excursion will consist of a cruise on the St. Lawrence River aboard a refurbished ferry boat and a bus trip to the Montmorency Falls

and to the Mont-Sainte-Anne ski resort. The participants will take the gondolas to the top of the mountain and enjoy the evening barbecue there.

Delegates and their families and friends will want to plan some extra time before, during, or after the meeting to enjoy the Québec City area and travel to other parts of Québec, "la Belle Province". A number of such tourist attractions and destinations are listed on the conference website, with many links that will help the planning of such activities. Further information about companion, pre- and post-conference tours, and a variety of day trips are provided on the meeting website. Also, tourism brochures will be included in registration kits. There will be a tour representative on site during the meeting.

The conference program and the abstracts of the presentations will be provided in delegates' registration kits, and SIP members and attendees will be able to download them from the SIP website in late July. For previous instructions, details, and information regarding the Québec 2007 meeting, consult the February 2007 SIP Newsletter or visit the meeting website. Updates will be posted in the "What's New" page of the website as the summer progresses.

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**Deadline for the next Newsletter is October 15, 2007**

### SIP Office

Please send all correspondence, membership applications and changes of address to our Executive Secretary, Margaret (Peg) Rotstein at:

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Note: Toll Free numbers for Canada & USA only

**Registration and abstract submission.** The deadline for submission of abstracts and for regular paid registration has passed, but late registration at a slightly higher fee will be accepted until **August 5, 2007**. After that date, walk-in registration will be accepted (see fee schedule on the meeting website and in the February 2007 Newsletter).

**On-line registration until August 5, 2007 is available at the *Registration* page of the meeting website**, but those who prefer to register by mail or fax can do so using the registration forms and instructions provided in the February 2007 Newsletter. The meeting registration fee covers the scientific program and the social program (except the optional 5-K run/walk and excursion).

< <http://www.sip2007quebec.com/> >

The telephone number of Hospitalité Québec is +1-(418) 522-8182, and the fax number is +1-(418) 529-7548.

**Deadline for cancellation: July 15, 2007.** Note that there is a 25% cancellation fee. After that date, refunds cannot be guaranteed due to organizational commitments.

**Accommodations.** Details are provided on the meeting website. There is ample housing available in the campus residence halls. Price includes breakfast and parking is free. Internet access (for a minimal fee) will be available for the duration of the conference (information will be provided on the meeting website). Alternate hotel housing is also available. Blocks of rooms have been reserved at the Delta Hotel in the downtown and other hotels near the conference site. Public transportation is available (a

### SIP NEWSLETTER

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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 October 15, 2007.**

**Please send items for publication to:**

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weekly bus pass can be purchased) all days and at regular and frequent intervals. Registration to the hotels selected for the meeting can be made on-line; several other hotels are also available, either in the vicinity of the university or downtown. Those wishing to stay in hotels are responsible for booking through the hotels directly.



Roland Brousseau,  
Email: roland.brousseau@cnrc0nrc.gc.ca



**Scientific Program.** The list of scheduled symposia and workshops of the SIP 2007 meeting is presented in this Newsletter. The *printed* program and abstract book will be available only to those registered for the meeting, but an electronic version will be available on the web by late July. Please note that the current meeting schedule is subject to change.

**Exhibitors.** Individuals or companies wishing to have exhibits at the meeting are advised to contact the co-chair of the organizing committee, Conrad Cloutier (conrad.cloutier@bio.ulaval.ca)

**Invitation letters.** Those requiring invitations for obtaining visas should contact the co-chair of the organizing committee, Conrad Cloutier (conrad.cloutier@bio.ulaval.ca)

Finally, plenty of other useful information can be found on the conference website.

**Contact information for the 2007 Québec SIP Meeting:**

**Registration, housing and general organization:**

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Québec City, Québec G1R 2K2  
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**Scientific Program Committee Co-Chairs:**

Basil Arif, Email: barif@nrcan.gc.ca

**PRELIMINARY MEETING SCHEDULE**

**SUNDAY, AUGUST 12, 2007**

**Council Meeting**  
**Registration**  
**Evening Mixer**

**MONDAY, AUGUST 13, 2007**

**Opening Ceremony and  
Founders' Lecture 8.30 -10:00**

*Jean-Louis Schwartz, Chair, Organizing  
Committee*  
*Wendy Gelernter, President, SIP*

**Founders' Memorial Lecture: Albert K.  
Sparks: A Pioneer and Visionary in Non-Insect  
Invertebrate Pathology**

*Dudley Pinnock, Chair, Founders' Lecture  
Committee*  
*Dr. Albert K. Sparks, Honoree*  
*Dr. Frank Morado, Lecturer*

**Plenary Lectures 10:30 - 12:30**

Historical perspective on this 40th Anniversary.  
*Elizabeth Davidson*

Chemical ecology and invertebrate pathology: Do sub-lethal pathogenic infections affect chemically mediated behaviors? *Jeremy McNeil & Jacques Brodeur*

**MONDAY 14:00 - 16:00****Bacterial Division Symposium: Mode of Action of Toxins**

*Jeroen Van Rie & Juan Ferré, Conveners*

The pre-pore oligomer is an obligate intermediate in the cell death induced by *Bacillus thuringiensis* Cry1Ab toxin in insect larvae. *Alejandra Bravo & Mario Soberon*

Thinking outside the box for the design of *Bt* products: can we take advantage of their target cells' environment and physiological response to aggression? *J.L. Schwartz, V. Vachon & R. Laprade*

A critique of current models for the mode of action of *Bt* toxins. *Donald Dean*

New insight into the mode of action of *Bacillus thuringiensis* Cry toxin: Cell death by camp. *Lee Bulla*

**Virus Division Symposium I: Symposium in Honor of Bob Granados. Insect Cells and Baculoviruses: 'Pas de Deux'**

Introduction. *Just M. Vlak, Convener*

Developments and significance in insect cell culture. *Dwight E. Lynn*

The peritrophic membrane and the role of enhancins. *Ping Wang*

Viral entry in insect (cell) systems. *Gary W. Blissard*

Contributions to virology: reflections by a colleague and friend. *Brian A. Federici*

Laudatio. *Johannes A. Jehle, Chair Virus Division*

**International Forum on Entomopathogenic Nematodes and Symbiotic Bacteria (IFENSB) Session I: Symbiosis**

*Convener: Mary Barbercheck*

Molecular aspects of *Xenorhabdus nematophila-Steinernema carpocapsae* association. *Heidi Goodrich-Blair*

The ins and outs of *Photorhabdus luminescens* transmission by *Heterorhabditis bacteriophora*. *Todd Ciche*

The biosynthesis of stilbene in *Photorhabdus luminescens*. *David J. Clarke, S.A. Joyce, A. O. Brachmann, G. Schwär, L. Lango, I. Glazer, & H.B. Bode*

Flexible gene pool in genomes of the entomopathogenic bacteria, *Photorhabdus* and *Xenorhabdus*. *Sophie Gaudriault, A. Lanois, S. Pages, D. Roche, S. Tamendjari, C. Medigue, & A. Givaudan*

Entomopathogenic nematode phylogeny and evolution. *Byron J. Adams*

Discussion Leader, *Steve Forst*

**Contributed Papers: Fungi 1****MONDAY 16:30 – 18:00****Contributed Papers: Microsporidia****Poster Session I: Bacteria, Fungi****Division Meetings and Workshops: 20:00 – 22:00**

Bacteria Division  
Fungi Division  
Microsporidia Division  
Nematodes Division  
Virus Division

**TUESDAY, AUGUST 14, 2007****TUESDAY 8:00 – 10:00****Virus Division Symposium II: Symposium to Honor Loy Volkman. Baculovirus Bounty**

Introduction. *Linda A. Guarino, Convener*

Viruses, insect and the SIP. *John P. Burand*

Functional analysis of interaction between BmNPV ORF8 and its host interacting factors. *WonKyung Kang, Riken*

Expanding baculovirus bounty by glycoengineering.  
*Donald L. Jarvis*

Baculovirus replication sites: role of cellular and viral genes.  
*Dagmar Knebel-Morsdorf*

Laudatio. *Johannes A. Jehle, Chair, Virus Division*

### **IFENSB Session II: Virulence**

*Convener: Lerry Lacey*

Neuroimmunity: insights from the *C. elegans* pathogenesis model.  
*Man-Wah Tan, Trupti Kawli & Eric Evans*

Exploiting *Photorhabdus* genomics. *R. ffrench-Constant, A. Dowling, M. Hares, J. Parkhill & N. Waterfield*

Virulence of entomopathogenic nematodes and symbiotic bacteria complexes.  
*Parwinder Grewal*

Discussion Leader: *John Webster*

### **Contributed papers: Fungi 2**

### **Contributed papers: Microbial Control 1**

### **TUESDAY 10:30 - 12:30**

#### **Fungi Division Symposium I: Are Entomopathogenic Fungi only Entomopathogens?**

*Mark Goettel and Jacques Brodeur, Conveners*

Evolution of entomopathogenicity in fungi. *Rich Humber*

Entomopathogens as endophytes. *Fernando E. Vega & Francisco Posada*

*Beauveria bassiana*: endophytic colonization and plant disease control. *Bonnie H. Ownley & M. Griffin*

*Lecanicillium* spp.: aphids and beyond. *M. Goettel, J.J. Kim, N. Benhamou, J. Brodeur, & D. Gillespie*

Entomopathogenic fungi and their relationships with the rhizosphere. *Ray St. Leger*

### **Contributed papers: Bacteria 1**

### **Contributed Papers: Nematodes**

### **Contributed Papers: Viruses 1, Viral Ecology and Biocontrol**

### **TUESDAY AFTERNOON & EVENING ACTIVITIES**

**Excursion and 5K Run/Walk**  
**Evening: BBQ and Entertainment**

### **WEDNESDAY AUGUST 15, 2007**

### **WEDNESDAY 8:00 – 10:00**

**Nematodes Division Workshop: Nematode Phylogeny and Systematics**  
*Patricia Stock, Convener*

### **Contributed Papers: Bacteria 2**

### **Contributed Papers Fungi 3**

### **Contributed Papers: Virus 2: Genes and Genomes**

### **WEDNESDAY 10:30 - 12:30**

### **IFENSB Session III: Infection & Stress Biology**

*Convener: Bornstein-Forst*

Entomopathogenic nematodes from xerophytic habitats: diversity, distributional patterns and ecological notes. *S. Patricia Stock*

Low temperature infection and survival strategies of entomopathogenic nematodes. *Ian Brown*

Trait modification in entomopathogenic nematodes. *David Shapiro-Ilan, Randy Gaugler, Byron Adams & Keith Hopper*

Sex-specific dispersal and infection in *Steinernema* spp. *Christine Griffin*

Discussion Leader, *Harry Kaya*

### **Contributed Papers: Microbial Control 2**

### **Contributed Papers: Viruses 3, Molecular Virus-Host Interaction**

**Student Committee Session / Pizza Lunch, 11:30-1:30**

The Art of Job Interviewing

Grant Writing

*Patricia Stock, advisor***WEDNESDAY 14:00 - 16:00****Cross-Divisional Symposium: Advances in the use of Microbial Agents for Control of Orchard Pests***Conveners: Lawrence A. Lacey & Charles Vincent*

Codling moth granulovirus: Finding a fit in North American orchards. *Donald R. Thomson, L.A. Lacey, R. Fritts, L. J. Gut & C. Vincent*

Field resistance to *Cydia pomonella* granulovirus - a new challenge for the biological control of codling moth. *J. A. Jehle*

Entomopathogenic nematodes for control of codling moth in pome fruit. *L. A. Lacey*

Use of *Bacillus thuringiensis* for the control of lepidopteran pests in apple orchards. *Jean-Charles Côté*

Developing an IPM system with entomopathogenic nematodes for guava in Brazil. *Claudia Dolinski*

Microbial control in Florida citrus groves: problems, perils, and potential for enhancing the effectiveness of entomopathogenic nematodes for root weevil control. *Robin Stuart & Larry Duncan*

Microbial control of plum curculio and peachtree borers. *David Shapiro-Ilan, Ted Cottrell, Russ Mizell & Dan Horton*

**Microsporidia Division Symposium:  
Microsporidia of Beneficial and Pest Insects in  
Greenhouse, Nursery and Pollination Systems**

*Conveners: Regina Kleespies & Lee Solter*

A unique microsporidium infecting the black vine weevil (Coleoptera: Curculionidae) a pest of landscape, small fruit and nursery plants. *Denny J. Bruck, Leellen Solter & Michael D. Baker*

Plight of the bumblebee: Pathogen spillover from commercial to wild populations. *Sheila Colla, M. Otterstatter, R.J. Gegeer and J.D. Thomson*

The *Nosema* riddle - puzzling fitness effects in the bumblebee *Bombus terrestris*. *Oliver Otti*

The convergent lady beetle and its microsporidium: potential impacts on non-target coccinellids. *Taro Saito*

Microsporidia of predaceous mites used for biological pest control. *Susan Bjornson*

Dissemination of the biocontrol agent *Vairimorpha necatrix* by the spined soldier bug, *Podisus maculiventris*. *Rachel E. Down, Howard A. Bell, H. June Matthews, Anne E. Kirkbride-Smith & John P. Edwards*

**Contributed Papers: Bacteria 3****Contributed Papers: Viruses 4, Cell culture and biotechnology****WEDNESDAY 16:30 - 18:00****Poster Session II: Viruses, Microbial Control, Nematodes, Microsporidia****WEDNESDAY 18:00 – 20:00****Microbial Control Division Business Meeting****THURSDAY, AUGUST 16, 2007****THURSDAY 8:00 – 10:00**

**Cross-Divisional Symposium: Current  
Situation on the Biological Control of Turfgrass  
Insects**

*Conveners: Guy Bélair & Julie Dionne*

Virulence of entomopathogenic nematodes and symbiotic bacteria complexes. *Parwinder Grewal*

Fungi for the control of turfgrass insects: An overview. *Rick Brandenburg*

Virus for the control of turfgrass insects: Current situation. *Callie Prater*

EPNs with other control agents, particularly synergistic combinations. *Albrecht Koppenhöfer*

Biological control on turfgrass insects in Canada: Current situation. *Louis Simard & Guy Bélair*

**Cross-Divisional Symposium: Battling Alien Invaders: Development and use of Entomopathogens to Control Invasive Insect Pests.**

*Convener - Louela Castrillo*

Development and production of the *Lymantria dispar* nucleopolyhedrovirus as a microbial control agent for the gypsy moth. *James Slavicek & John Podgwaite*

Releasing exotic microsporidia into North American gypsy moth populations: regulations and other issues. *Leellen Solter & Mike McManus*

*Entomophaga maimaiga* and gypsy moth in North America: Toward predicting epizootics. *Ann Hajek*

Potential uses of *Beauveria bassiana* GHA for management of the emerald ash borer. *Leah Bauer & Houping Liu*

*Thelohania solenopsae* as a factor of fire ant populations. *David Oi*

Tritrophic interaction in the control of *Sirex* woodwasp by nematodes. *Raymond Akhurst*

**Contributed Papers: Microbial Control 3**

**Contributed Papers: Bacteria 4**

**THURSDAY 10:30 - 12:30**

**Business Meeting of SIP  
Student Awards Committee Meeting**

**THURSDAY 14:00 TO 16:00**

**Fungi Division Symposium: Fungal Secondary Metabolites: Knowns and Unknowns**

*Conveners: John Vandenberg, Alice Churchill & Donna Gibson*

Terrequinone A biosynthesis: Implications beyond *Aspergilli*. *Dirk Hoffmeister*

Integration of polyketides into the life cycle of *Fusarium graminearum*. *Frances Trail*

Using molecular genetics to reveal metabolic pathways of *Metarhizium anisopliae*. *A. Churchill*

New secondary metabolites from *Metarhizium anisopliae*. *Stuart B. Krasnoff*

Risk assessment of entomopathogenic fungi – a REBECA statement. *Hermann Strasser*

**Cross-Divisional Symposium: So Many Strains, so Few Products! Opportunities and Constraints to Commercial Development of new Bt Products.**

*Conveners: Ole Skovmand & Trevor Jackson*

Variation in *Bt* toxins. *Neil Crickmore*

Criteria for selection and use of native *Bt* strains. *Rose Moneratt*

The regulatory hurdle. *Brian Belliveau*

Why companies don't pick up new strains. *Prem Warrior*

**Contributed Papers: Microbial Control 4**

**Contributed Papers: Viruses 5, Insect Virus Diversity and Evolution**

**THURSDAY 16:00 – 18:00**

**IFENSB Session IV: ECOLOGY**

*Convener: Claudia Dolinski*

Entomopathogenic nematodes in heterogeneous soils: foraging behavior and infection decisions. *Glen Stevens & Edwin E. Lewis*

Host behavioral response. *Albrecht M. Koppenhöfer*

Soil food webs, entomopathogenic nematodes, and biological control: shedding some light on an old black box. *Robin J. Stuart & Larry W. Duncan*

Modeling entomopathogenic nematode population patterns and processes in ecosystems. *Casey Hoy, Parwinder Grewal, Robin Taylor, & J. J. Park*

Discussion Leader, *James F. Campbell*

**Contributed Papers: Bacteria 5**

**Contributed Papers: Microbial Control 5**

**Banquet 19:00**

### SIP MEETINGS- 1968-2007

YEAR	LOCATION, DATE	HOST	SYMPOSIA, SCIENTIFIC EVENTS	SOCIAL, OTHER EVENTS
1968	Columbus, Ohio, Sept 3-7, with AIBS	John D. Briggs	Steinhaus address: "Be favorable to bold beginnings"; over 100 attended, 20 papers, 2 symposia	First banquet, mixer, business meeting. Society incorporated in Maryland; 335 members in 26 countries, 1 <sup>st</sup> newsletter Feb 1968
1969	Burlington, Vermont, Aug 17-22, with AIBS	Thomas Cheng	45 papers, microsporidia division formed, 100 attended	Banquet, happy hour, barbeque. By-laws presented; trip to Lake Champlain and Green Mountains
1970	College Park, Maryland, Aug 25-28, with AIBS	James Vaughn, Art Heimpel	International Colloquium; 8 symposia, 175 attended	1 <sup>st</sup> membership list; death of Edward Steinhaus
1971	Montpellier, France (first international meeting), June 16-19 with OILB	Max Bergoin	Safety working group formed; 3 symposia, 155 attended	Banquet, happy hour, trips to Pont de Gard, Camargue, San Christol. 500 members
1972	Minneapolis, Minnesota, Aug 27-Sept 1, with AIBS	Marian Brooks	7 sessions	Banquet, visit to water quality laboratory
1973	Oxford, England, Sept 3-7 and Amherst, Massachusetts with AIBS	Thomas Tinsley	International Colloquium on Insect Pathology and Microbial Control; 5 symposia;	Pre-conference meeting at Glasshouse Institute; Glossary of Terms begun; 1 <sup>st</sup> photos in Newsletter
1974	Tempe, Arizona, June 16-21, with AIBS, and Munich, Germany with Int. Congress Parasitology	Elizabeth Davidson, Pat Vail	8 sessions	Hottest meeting ever. Wave pool and desert hike trips.
1975	Corvallis, Oregon, Aug 17-22	Mauro Martignoni, Mike Mix, Chris Bayne	First poster session (failed), first abstract booklet; 6 sessions	Directory of Courses published
1976	Kingston, Ontario, Canada, Aug 29-Sept 3	Tom Angus, Aaron Rosenfield, Peter Faulkner	International Colloquium, published proceedings, 9 symposia	Visit to Fort Henry; ca. 600 members, first membership list, \$3000 in treasury
1977	East Lansing, Michigan, Aug 21-26, with AIBS	John Bresnak, T. Rizki	5 symposia	Dues increase; 117/600 members in arrears



1978	Prague, Czechoslovakia, Sept 11-17	Jaroslav Weiser	International Colloquium, Division on Microbial Control; Archivist appointed; 10 symposia	10 <sup>th</sup> anniversary of first international meeting; \$4500 balance; Banquet at Karstein Castle
1979	Gainesville, Florida, Aug 26-30	John Harshbarger	4 workshops, 4 symposia	Dues increase; 618 members
1980	Seattle, Washington, July 27-Aug 1	Albert Sparks	3 symposia, 3 posters	Eruption of Mt St Helens; First meeting to show a profit; 625 members
1981	Bozeman, Montana, Aug 17-21	John Henry	Poster session attempted again	Madison River float trip. Terminated affiliation with AIBS, Constitution and bylaws revision proposed
1982	Brighton, England, Sept 5-12	Denis Burges, Chris Payne	International Colloquium, Proceedings published; first BT genetics; 11 symposia	Outing to Brighton Pavilion, First Founders lecture
1983	Ithaca, New York, Aug 7-11	Robert Granados, Don Roberts	5 symposia, 2 workshops	Slide atlas proposed; first 5K race and T-shirts; Taughannock Falls barbeque
1984	Davis, California, Aug 5-9	Harry Kaya, Don Roberts	Comparative tumor pathology group; 170 participants	Wine tasting tour, tours of Sacramento, Bodega Bay Marine Lab. Glossary of Terms published
1985	Sault Ste. Marie, Ontario, Canada, Aug 4-8	Terry Ennis, John Cunningham, Sardar Sohi	4 symposia, 7 workshops; 165 participants	Visit to old Insect Pathology Institute Building; New initiatives committee formed
1986	Veldhoven, Netherlands, Aug 18-22	Just Vlak, Rob Samson, Dick Peters	International Colloquium, proceedings published; 14 symposia	Philips EM facility and Heineken Brewery visits
1987	Gainesville, Florida, July 19-24	Drion Boucias, Jim Maruniak, Al Undeen, Clay McCoy, John Couch, Patrick Greany		Directory published
1988	La Jolla, California, Aug 14-18	Brian Federici	6 symposia, 10 sessions, First student paper award; 250 participants	Dues increase; courses list published; beach barbeque
1989	College Park, Maryland, Aug 20-24	Jim Vaughn, Charlie Reichelderfer, Ed Daugherty	5 symposia, 3 workshops	250 attended, from 15 countries;
1990	Adelaide, Australia, Aug 20-24	Dudley Pinnock	International Colloquium	Dance
1991	Flagstaff, Arizona, Aug 4-9	Elizabeth Davidson	27 symposia 7 symposia	250 attended, from 27 countries; wine tour
1992	Heidelberg, Germany, Aug 16-21	Jurg Huber, Gisbert Zimmerman, Wolfgang Schnettter, Norbert Becker	25th anniversary speech by Tom Angus; over 400 attended from 35 countries	Grand Canyon tour, Cheng retires as JIP editor; dues increase; FASEB to handle treasury
1993	Ashville, North Carolina, Aug 1-6	James Harper, Wayne Brooks	9 symposia, 13 paper sessions, 2 workshops; over 300 attended from 22	River boat tour; dues increase; directory of industries published
				Barbeque and hike to Chimney Rock, tour of Biltmore Estate

1994	Montpellier, France, Aug 28-Sept 2	Max Bergoin	countries International colloquium; 5 plenary sessions, 20 symposia and 5 con-current sessions. >600 attended; 55 countries	Aigues-Morte tour, 5K race at Pont du Gard.
1995	Ithaca, New York, July 16-21	John Vandenberg, Allan Wood	270 papers, 10 symposia; 374 participated from 22 countries	Excursion and barbeque at Taughannock Falls
1996	Cordoba, Spain, Sept 1-7	Candido Santiago-Alvarez and Enrique Vargas Osuna	337 papers; 392 attended from 34 countries	Bullfight, visit to Mezquita, concert at Alcazar de los Reyes Cristianos
1997	Banff, Canada, Aug 24-29	Mark Goettel	10 symposia, 392 participants from 28 countries	Columbia Icefields and Banff Springs Hotel, Nordic Center and Lake Louise tours
1998	Sapporo, Japan, Aug 23-28	Toshihiko Iizuka	307 presentations, 385 participants	Mt Tarumae and Shikotsu Lake and Noboribetsu Hotspring; bylaws revision
1999	Irvine, California, Aug 22-27	Brian Federici	Over 250 papers, 10 symposia	Wine tasting, Mission San Juan Capistrano, Beach barbeque; SIP website initiated
2000	Guanajuato, Mexico, Aug 13-18	Jorge Ibarra, Alejandra Bravo	10 symposia, 322 papers, 317 participants, students from 28 countries	San Miguel de Allende, Teatro Juarez.
2001	Noordwijkerhout, Netherlands Aug 25-30	Just Vlak, Meir Broza	425 participants from 39 countries, 19 symposia, over 300 papers	Moved from Jerusalem; Van Gough museum, canal boat tour; 100 <sup>th</sup> anniversary of discovery of <i>Bt</i> , 25 <sup>th</sup> anniversary of discovery of <i>Bti</i>
2002	Foz do Iguassu, Brazil, Aug 18-23	Flavio Moscardi, Sergio Alves	352 participants, over 300 papers	Iguassu Falls tour; gaúcho barbeque
2003	Burlington, Vermont, July 25-31	John Burand, Ann Hajek	300 participants, 30 countries represented. Short course.	Boat cruise, brewery tour
2004	Helsinki, Finland, Aug 1-6	Heikki Hokkanen	330 participants, from 44 countries, 202 papers; symposium on discovery of <i>Oryctes</i> virus	Nukksio National Park, Marimekko tour
2005	Anchorage, Alaska, Aug 7-11	Kelly Hoover, Bryony Bonning	316 participants from 29 countries; 226 talks, 130 posters	Native dancers, Cook Inlet, Wildlife viewing
2006	Wuhan, China	Yu Zinu, Sun Ming, Hu Zhihong	196 papers, 129 posters, 36 countries represented	Yellow Crane Tower, Hubei Museum, Botanical Garden
2007	Québec City, Québec, Canada	Conrad Cloutier, Jean-Louis Schwartz	To be announced	

## 2007 SIP FOUNDER'S HONOREE



**Dr. Albert K. Sparks**, this year's Founder's Lecture Honoree, has led a long and distinguished career that includes not only his significant contributions to the field of invertebrate pathology but also his important and visionary work as a founding member and the first Vice-President and second President of the Society for Invertebrate Pathology.

Dr. Sparks was born on the 31st of July 1923 at Wichita Falls, Texas. In September 1941 he enrolled at Texas A&M University but was called to active duty in 1943, serving 27 months in the Pacific Theatre during World War II. Dr. Sparks returned to Texas A&M to complete his B.S. (1947), M.S. (1949) and Ph.D. degrees (1957).

Dr. Sparks served as an academic and teacher for over twenty years: Instructor in Biology, Texas A&M 1948-1949; Assistant Professor, Sam Houston State Teachers College, 1949-1951; Acting Assistant Professor Biology and Oceanography, Texas A&M, 1952-1953; Chief Biologist & Assistant Director, Texas A&M Research Foundation Marine Laboratory, Grand Isle, Louisiana 1956-1958; Associate Professor of Fisheries, University of Washington, 1958-1963 and Professor of Fisheries, University of Washington, 1963-1970.

In 1967, Dr. Sparks began discussions with Dr. Ed Steinhaus regarding the formation of an international professional society that would unite pathologists studying insects with those studying invertebrates other than insects. The result of their year-long discussion was the Society for Invertebrate Pathology's organizing

meeting, held in May of 1967. The meeting was hosted by Dr. Sparks in Seattle at the University of Washington, where Dr. Sparks was Professor of Fisheries. Dr. Sparks was elected Vice-President at that meeting, and in 1968, assumed the role of President of SIP, an office that he held until 1970. Dr. Sparks continued to be involved in SIP over the years, including his selection, in 1983, as the Founder's Lecture speaker who honored the contributions of Dr. J. G. Mackin. Twenty-four years later, it is only fitting that Dr. Sparks himself receives this well-deserved honor.

Dr. Sparks' public service commenced in 1970, when he was appointed Director of the Bureau of Commercial Fisheries Biological Laboratory in Galveston, Texas. He served as Director, Gulf Coastal Fisheries Center, National Marine Fisheries Service (NMFS), National Oceanic & Atmospheric Administration (NOAA), (1971-1973), as Deputy Associate Director for Research, NMFS, NOAA, (1973-1974); Associate Director for Research, NMFS (1974-1976); and Research Scientist, NMFS, Northwest & Alaska Fisheries Center, (1976-1990).

During his distinguished career, Dr. Sparks has published over 100 scientific papers on parasites of fishes, molluscan diseases and reaction to injury and wound repair in molluscs, and crustacean diseases. He is the author of numerous chapters in books on diseases, ranging from those of invertebrates to those of man.

He is the sole author of: *Invertebrate Pathology, Noncommunicable Diseases*, 387 pp. Academic Press, and *Synopsis of Invertebrate Pathology, Exclusive of Insects*, 423 pp., Elsevier.

Dr. Sparks retired from the National Marine Fisheries Service in 1990, but continued to serve as Subject Editor for Diseases of Aquatic Organisms until 2006. He retired from the Army Reserves in 1983 as Colonel, Medical Services Corps, USAR.

*NOTE: Portions of this biography were taken from Dr. Sparks' article, "SIP: from Conception to Birth", that appeared in the June 1992 issue of the SIP Newsletter Vol. 24, No. 2, pp. 11-13.*

## 2005 SIP FOUNDER'S LECTURER



**Dr. J. Frank Morado** completed his B.S. degree at Colorado State University and his M.S. and Ph.D. degrees at the University of Washington, Seattle. Dr. Morado's research interests are the effects of disease on population abundance and distribution patterns of aquatic organisms. This includes the role of disease in producing mortality and how disease and parasites may affect the quality of fisheries products. Past interests have focused on diagnosing and investigating the role of viruses, bacteria and protists in marine fish and shellfish. Dr. Morado's current research involves the development and application of molecular tools for diagnosing and monitoring important diseases of commercial fish and shellfish.

Dr. Morado has established strong and varied research collaborations with fisheries industries and with State and University laboratories in Canada and the United States. These collaborations include those with Kaylene Burger of Glacier Fish Company, Washington, on the effects *Ichthyophonus* in product quality of walleye pollock; Rick Cawthorn of the University of Prince Edward Island, PEI, Canada; planning for 2007 Bitter Crab Workshop with Earl Dawe of the Department of Fisheries & Oceans, Newfoundland, Canada on Bitter Crab Syndrome in Newfoundland snow crab; Carolyn Freidman, School of Fisheries & Aquatic Sciences, University of Washington, Seattle, Washington on the development and implementation of Q-PCR to detect and monitor Bitter Crab Syndrome in North Pacific snow and Tanner crabs; Lorenz Hauser, also of the School of Fisheries & Aquatic Sciences, University of Washington, Seattle, Washington on the phylogenetics of the causative agent of Bitter Crab Syndrome; and Cheryl Woodley at the Coral Health & Disease Workshop, DOC/NOAA/NOS/NCCOS at the Center for Coastal Environmental Health and Biomolecular Research, Hollings Marine Laboratory, Charleston, South Carolina on coral disease diagnosis and pathology.

Dr. Morado's research is part of the Fisheries Resources Pathobiology Program of NOAA National Marine Fisheries Service, based in Seattle, Washington, USA. Dr. Morado currently is Acting Program Manager of the Kodiak Shellfish Laboratory.

## Founder's Honorees and Lecturers- 1982-2007

- |                                       |   |
|---------------------------------------|---|
| 1982: K.M. Smith/ C.F. Rivers         | 1996: A. Bassi/ D.W. Roberts                            |
| 1983: J. Mackin/ A.H. Sparks          | 1997: T.A. Angus, A.M. Heimpel/<br>K. van Frankenhuyzen |
| 1984: E.A. Steinhaus/ Y. Tanada       | 1998: K. Maramorosch/ J. Mitsuhashi                     |
| 1985: G.H. Bergold/ T. A. Angus       | 1999: Y. Tanada/ H.K. Kaya                              |
| 1986: E. Metchnikov/ J. Weiser        | 2000: H. D. Burges/ B.A. Federici                       |
| 1987: L. Pasteur/ C. Vago             | 2001: J. Weiser/ W. Brooks                              |
| 1988: "State of the Art"/ H. Whiteley | 2002: H. de Barjac/ P. Lüthy                            |
| 1989: R.R. Kudo/ V. Sprague           | 2003: L. K. Miller/ R.R. Granados                       |
| 1990: T.D.C. Grace/ K. Maramorosch    | 2004: H.G. Boman/ K. Söderhall                          |
| 1991: R. W. Glaser/ G.O. Poinar Jr.   | 2005: E. Canning/ J. Becnel                             |
| 1992: E. Muller-Kogler/ A. Vey        | 2006: Gao S.Y./ J. Vlák                                 |
| 1993: J.N. Couch/ H.C. Whisler        | 2007: A. Sparks / J.F. Morado                           |
| 1994: C. Vago/ L. K. Miller           |   |
| 1995: H.T. Dulmage/ D. J. Ellar       |   |

## FROM THE PRESIDENT



### Celebrate the joys of working together at SIP's 40<sup>th</sup> Annual Meeting in Québec

In a report that recently appeared in *Science* magazine<sup>1</sup>, Stefan Wuchty and co-authors at Northwestern University document a welcome shift towards collaborative research in the sciences. By studying 19.9 million research articles and 2.1 million patent records, the investigators found that over the past 45 years, the average number of authors per paper had nearly doubled — from 1.9 to 3.5. The study also showed that team-written papers and patents were more highly cited than those written by solo authors, suggesting that teamwork produces higher quality publications, at least in the eyes of our scientific peers.

This report suggests that at last, the scientific community has realized what SIP members have known for years — that working together can be synergistic, productive, exhilarating and just simply fun. Under the right conditions, collaboration brings out the best in people, allowing us to glimpse — at least for a moment — the possibilities for a better world.

For those lucky enough to attend SIP 2007 in Québec this August, there will be many examples — from both the past and the present — of the benefits that arise when people work together for a common goal.

#### Setting the stage for SIP's culture of cooperation

In this context, it is especially fitting that our Founder's Lecture honoree for 2007 will be Dr. Albert K. Sparks. For it was Sparks — a pathologist of fishes, mollusks and crustaceans — who early on saw the value of an interdisciplinary approach to invertebrate pathology. His vision led him, in 1967, to team up with Dr. Ed Steinhaus to organize the first meeting of the Society for Invertebrate Pathology, a meeting for which we celebrate

the 40<sup>th</sup> anniversary in Québec this August. Dr. Frank Morado's Founder's Lecture on Dr. Sparks should provide many more interesting insights on the achievements and also the hurdles that Sparks and his fellow SIP founders faced in their early efforts.

By building the foundation for a collaborative approach towards research in invertebrate pathology, Sparks, Steinhaus and their co-founders fostered an environment in which a high value was placed on the synergies that emerge when people from different backgrounds work together.

#### Synergism in Québec

These values and synergies are still very much in evidence today in the work that has gone into planning the SIP 2007 meeting. Organizing Committee Chairs Jean-Louis Schwartz and Conrad Cloutier have been working tirelessly — not just this year, but for the past several years — to make the meeting both productive and pleasant. And their efforts have paid off. Everything — from the meeting venue, to the accommodations, to the many planned excursions and events — has been taken care of with a professionalism and dedication that has been a pleasure to witness.

The same can be said of the Program Committee led by Basil Arif and Roland Brousseau. They have had their hands full with over 350 presentations to schedule, but they approached their task with hard work, creativity and flexibility. They have had a special challenge because this year, the program will include a Forum on Entomopathogenic Nematodes and Symbiotic Bacteria in addition to our regular program. The efforts of David Shapiro-Ilan, Parwinder Grewal and Harry Kaya to propose and organize this forum are greatly appreciated.

The SIP 2007 Social Committee, led by Raynald Laprade, has organized a glorious set of activities that will allow us to enjoy a bit of the beauty and culture of Québec as well as the camaraderie that comes when we relax together.

Over 20 volunteers have been involved in making these arrangements for us, but there are even many more that contribute to making the meeting a success. The work of Jim Harper and Pat O'Leary and the Financial Support Committee to raise funds for this year's meeting are of course essential, as are the efforts of Andreas Linde and the Student

Awards Committee to organize and judge the various student competitions. All of us benefit from SIP's support of students in terms of the infusion of ideas and enthusiasm that these young people bring to the science and to the Society. Dudley Pinnock and the Founder's Lecture Committee have once again selected a perfect pair — Dr. Albert Sparks as honoree and Dr. Frank Morado as lecturer — who can help us to understand and build on SIP's noble history.

Our Executive Secretary and webmaster, Peg Rotstein, is always invaluable to SIP, and especially so in the months leading up to the annual meeting. I am happy to say that Peg will be joining us at SIP this year. If you have never met Peg, I hope that you will introduce yourselves to her. She has told me many times that one of the joys of coming to SIP is in finally meeting the people who she has known only by name for so many years. It is always easy to find Peg — just look for a flame of beautiful red hair and a warm and welcoming smile.

#### **A very special collaboration comes to an end**

Like many of you, I look forward to each issue of the SIP newsletter, and see it as a vital link that keeps our network of colleagues and friends connected during the year. Over the past six years, newsletter editor Leellen Solter, along with assistant editors Gernot Hoch and Vince D'Amico, have succeeded in producing a consistently professional and high quality newsletter that at the same time reflects SIP's friendly and unique culture.

Putting out the SIP newsletter is long and hard work — truly a labor of love — and one of the many joys of reading it is in seeing how much care and love go into each issue.

Now, after so many years of serving as editor, Lee has asked to step down from her role, as have her assistant editors. November 2007 will sadly be their last issue. The collaboration among Lee, Gernot and Vince has been an exemplary one — one that has served SIP, as well as each of us so very well. I want to extend my heartfelt thanks — both personally, and on behalf of the Society — to Lee, Gernot and Vince for their contributions and their commitment.

#### **And another one begins**

Filling Lee and company's shoes will be a difficult task, but I am very happy to announce that two very worthy successors have volunteered to take on this important responsibility. Starting November 2007, SIP's newsletter will be co-edited by the dynamic duo of Judith Pell and Paresh Shah. You will hear more about their backgrounds

in an upcoming newsletter, and I am sure that you will be impressed, as I am, with the breadth and depth of their scientific and communications skills, their connection with invertebrate pathologists around the world, and their long-term involvement with, and dedication to SIP.

#### **What SIP has to offer**

These are just a few of the people who have worked together this year to keep SIP moving forward, and to bring you yet another great meeting. They have been motivated not by money or fame, but instead by the desire to contribute to an organization that they value and enjoy.

At the end of the *Science* article on the increase in teamwork in science, the authors found themselves at a loss to explain the reasons behind the trend towards collaboration, though they were able to eliminate some of the most likely factors such as the high cost of research, specialization in science, and declines in communication costs. What they did not investigate, however, is the reason that I believe most SIP members work together. And that is because they are nurtured, uplifted and elated by it, as the happy faces in photos from past SIP meetings attest.



Online registration for the meetings is open, at [www.sip2007Québec.com](http://www.sip2007Québec.com), until August 5, and on-site registration will begin August 12. I look forward to seeing many of your happy faces in Québec this August. Until then, je vous souhaite un excellent voyage et la bienvenu á Québec et au Québec!

*Wendy*

Wendy Gelernter, SIP President

<sup>1</sup>Wuchty, S., Jones, B.F. and B. Uzzi. 2007. The increasing dominance of teams in production of knowledge. *Science*: 316 (5827): 1036 - 1039

## SIP Officers: 1967-2007

Year	President	Vice-President	Secretary	Treasurer	Trustees*
1967 (Founder's Meeting)	E.A. Steinhaus	A.K. Sparks	A.M. Heimpel	A.M. Heimpel	T.A. Angus, M.E. Martignoni, C.J. Sindermann, V. Sprague
1968	A.K. Sparks	C. Vago	H. E. Welch	H.E. Welch	K. Aizawa, A.M. Heimpel
1970	C. Vago	J. D. Briggs	P.A. Van der Laan	C.M. Ignoffo	J. M.Franz, M. Laird
1972	J.D. Briggs	A.M. Heimpel	M.A. Brooks	Y. Tanada	M. Bergoin, M.E. Martignoni
1974	A.M. Heimpel	T.A. Angus	J. Harshbarger	G. Stairs	L. Van der Geest, J. Weiser
1976	T.A. Angus	J. Weiser	W.M. Brooks	J. Paschke	H.T. Dulmage, Y. Tanada
1978	J. Weiser	P.T. Johnson	J.E. Henry	J.V. Maddox	H.D. Burges, M. Mix
1980	P.T. Johnson	W.M. Brooks	O.N. Morris	J.D. Harper	T.L Couch, P. Luthy
1982	W.M. Brooks	H.D. Burges	J.R. Adams	A. Rosenfield	J.E. Henry, H. Watanabe
1984	H.D. Burges	J. Harshbarger	E.W. Davidson	J.R. Fuxa	B.A. Federici, J. Couch
1986	J. Harshbarger	D.W. Roberts	A. Cali	R.R. Granados	C.C. Payne, G. Payne
1988	D.W. Roberts	E. W. Davidson	R. Anderson	F. Kern	D. Pinnock, P. Faulkner
1990	E. W. Davidson	C.C. Payne	L. A. Lacey	C. Reichelderfer (D.R. Roberts)	T. Iizuka, G. Soares
1992	C.C. Payne	R.R. Granados	R. Daoust	H.K. Kaya	R. Anderson, L.A. Lacey
1994	R.R.. Granados	B.A. Federici	W. Gelernter	H.K. Kaya	M. Goettel, I. Thiery
1996	B.A. Federici	J. Huber	S. MacIntosh	T. Andreadis	J. Ibarra, J. Cory
1998	J. Huber	J.D. Harper	A. Hajek	T. Andreadis	D. Ellar, L. Solter
2000	J.D. Harper	H.K. Kaya	M. McGuire	D. Winstanley	B. Arif, T. Jackson
2002	H.K. Kaya	J.M. Vlak	R. Akhurst	S. Thiem	A. Bravo, J. Vandenberg
2004	J.M. Vlak	W. Gelernter	P. Krell	S. Thiem	P. Stock B. Margalhaes
2006	W. Gelernter	M. Goettel	J. Corey	J. Becnel	H. Zhihong B. Bonning J. Eilenberg

## OBITUARIES



**Dr. Usha Kirtilal Mehta**  
1940-2006

Dr. Usha Mehta was born on May 5, 1940 in Palanpur, Gujarat, India and soon afterward her family moved to Coimbatore. She passed away on December 20, 2006 in Antwerp, Belgium following cardiac arrest. The world lost an outstanding scientist, a dedicated administrator, and a caring community leader.

Dr. Mehta's early schooling began at St. Mary's High School and Nirmala College, Coimbatore and in 1959 she graduated from the Government Arts College, Coimbatore with her B.Sc. degree in zoology. She earned her Master's degree at the Pachaiyappa College, Madras. Dr. Mehta was then appointed as a Research Assistant at the Agricultural College and Research Institute, Coimbatore (now Tamilnadu Agricultural University, TNAU). While there, she was introduced to nematology by Dr. A. R. Seshadri, an eminent pioneer in the discipline. During 1966-70 she worked at the University of California, Davis for her Ph.D. degree in Nematology under the guidance of Professor D.J. Raski. Her dissertation dealt with the pioneering systematics of the nematode genus *Criconema*.

On her return to Coimbatore, Dr. Mehta was appointed as CSIR Pool Officer at JNAU and subsequently at the Sugarcane Breeding Institute, Indian Council of Agricultural Research, where she developed an outstanding research career and became Head of the Division of Crop Protection (Principal Scientist in charge of Sections of Entomology, Plant Pathology and Nematology). Her scientific work led

to more than 100 publications in both national and international journals. Her significant findings on the biology of an entomopathogenic nematode, *Heterorhabditis indicus*, led to the development of biological control of a serious white grub sugarcane insect pest. Thus, Dr. Mehta played a pivotal role in advancing very useful sugarcane breeding and production methodology involving integrated pest management.

Dr. Mehta worked at the Sugarcane Breeding Institute until her retirement in 2003 and was reappointed as Emeritus Scientist at Bharathiyar University where she continued her teaching and research work until last December. Her distinguished career included notable contributions to nematology research, extension and education as she guided ten Ph.D. students at the Bharathiyar University and the Avinashilingam Deemed University. Dr. Mehta was one of the leaders who established the Afro-Asian Society of Nematology, which honored her in 1994 by appointing her as a Fellow. The Indian Council of Agricultural Research recognized her lifetime accomplishments by awarding her the Outstanding Woman Scientist in Agriculture Award in 1988. She was a member of a number of international scientific societies including the Society for Invertebrate Pathology.

Dr. Mehta earned respect and admiration from her colleagues and friends for her deep and abiding concerns and services in helping many students and poor children in getting a proper education and in making medical facilities available to the poor. She accomplished her public service goals through the Rotary Club of Coimbatore, which she helped to establish and lead as the Charter President in 1990. She also served as Assistant Governor of the District of Rotary and chaired the Women Empowerment Program. In 1998 the Rotary Club of Coimbatore Satellite recognized her enthusiastic and dedicated community work with its Lifetime Achievement Award. In 2006, the Coimbatore Kendra of Bharatiya Vidya Bhawan presented her the prestigious Kulapati K.M. Munshi Award.

*D. J. Raski*  
*Emeritus Professor, UC Davis*



**In Memoriam**  
**Lest we forget: Obituaries of SIP Members appearing in the Newsletter**

<b>Name</b>	<b>Year of Death</b>	<b>Newsletter Issue</b>
Edward A. Steinhaus	1969	2(4)
Leslie Alfred Stauber	1973	5(2)
J.M. Cameron	1975	7(2)
Robert-Philippe Dollfus	1976	9(2)
Enrico Masera	1977	9(4)
D. Kent Hunter	1978	10(2)
Arthur M. Heimpel	1979	12(1)
Kenneth M. Hughes	1980	12(2)
Gordon Bucher	1982	14(2)
F.G. (Ted) Bird	1984	16(4)
Truman B. Clark	1984	17(3)
Oleg Lysenko	1985	17(2)
Edward Hazard	1985	17(2)
Bernhard C. Hertlein	1985	18(2)
George Balouet	1986	19(1)
W.A. Ramoska	1986	19(1)
Isaac Harpaz	1987	19(3)
Kurt Purrini	1989	22(1)
Charles Reichelderfer	1990	23(1)
William Kellen	1990	23(1)
Gao Shagyin	1989	23(1)
Anna Chittick	1991	23(3)(
Martin Rogoff	1992	24(2)
P.A. Van der Laan	1992	25(1)
William Yendol	1993	25(2)
Howard Dulmage	1993	25(3)
Richard Nolan	1994	26(3)
Howard Chittick	1994	27(1)
Norman Crook	1996	29(1)
Susumu Maeda	1998	30(2)
William McCarthy	1998	30(2)
Normand Dubois	1998	30(2)
Lois Miller	1999	32(3)
Charles C. Doane	1999	33(1)
Peter Sikorowski	2000	33(2)
Mauro E. Martignoni	2000	33(2)
Thomas C. Cheng	2000	34(1)
Tadeusz J. Poprowski	2001	34(1)
Victor Sprague	2001	34(3)
Chris J. Lomer	2001	34(3)
Clarence C. (Hank) Thompson	2001	35(1)
John D. Briggs	2002	36(1)
Raimon Beard	2002	36(3)
Andrzej Bednarek	2003	36(3)
Adrian Gillespie	2003	36(3)
David Kelley	2002	36(3)
Geoffrey Clive Simmons	2002	37(2)
Patrick Vail	2004	37(1)
Jean Adams	2004	37(3)
Mabry Steinhaus	2005	38(3)
Sophie Jakowski	2005	39(3)
Usha Kirtilal Mehta	2006	40(2)

## ANNOUNCEMENTS

### From the Nomination Committee

This is to inform the membership about the activities of the Nomination Committee. The President has appointed a new Nomination Committee upon the resignation of Bob Granados as Chair of this Committee in 2006. Bob and his committee have done a superb job for many years and our President wishes to continue the activity of the Committee with new membership. The Nomination Committee now consists of the four immediate past-presidents, the last president being the Chair. In addition to Just Vlak (Chair) the Committee now consists of Harry Kaya, Juerg Huber and Jim Harper.

Our first job is to arrange a slate of nominees for the vacancies that arise in the SIP Executive Council as of 2008. The Executive Council is the body within the Society responsible for its affairs. The Executive Council consists of a president, a vice-president, a past-president, a secretary, a treasurer and four trustees. The Executive Council is seconded by the Chairs of the Divisions and various committees within the Society for in-depth feedback.

The vacant slots in the Executive Council for 2008 are:

- President (automatically listed; 2-year term)
- Vice-President (2-year term before taking up the Presidency)
- Secretary (2-year term)
- Treasurer (2-year term; must be American to comply with banking rules; can be up for re-election for 2 more years)
- Two Trustees (4-year term). The two members to stay until 2010 are Rose Hu and Jørgen Eilenberg. Bryony Bonning and Patricia Stock retire from the Committee as of 2008.

At least two candidates are needed for each vacancy. You may nominate deserving colleagues or yourself. It would be nice to have wide international / intercontinental representation on the Executive Committee as well as different science backgrounds in invertebrate pathology and microbial control. We particularly welcome younger members in the Executive Council.

The Nomination Committee would appreciate at this point to have suggestions from the membership of the

Society at large for nominees for the various vacancies. Nominations can be sent to Just. M. Vlak by e-mail (just.vlak@wur.nl) and will be treated confidentially within the Nomination Committee. Please, send nominations before SIP2007 in Québec, as the Committee will meet there.

*Just M. Vlak, Chair*

## MEMBERS ON THE MOVE

### ***Moving??***

Please prepare a paragraph including information about past and present postings, new address, telephone, fax and email address and send to your Newsletter Editor for inclusion in the Move Section in the next issue of the Newsletter.

Please also inform the SIP Office of your new address. The address of the Office is also found on page 2.

## POSITIONS AVAILABLE

### **Assistant or Associate Professor- Insect Pathologist- 12 month Tenure Track, Knoxville, TN, USA**

The successful candidate will establish a sustainable, dynamic, cooperative research program in insect pathology, concentrating on the management of invasive insects and arthropod pests of emerging concern with a strong applied component. The successful candidate will advise graduate students and contribute to the overall research, teaching, and outreach programs of the Department. This position will be a 100% research appointment; however, graduate student training is expected. Candidates must have a Ph.D. or equivalent in Entomology or related science at the time of the appointment with graduate or postdoctoral experience in insect pathology, and will have demonstrated the ability to develop a sustainable, grant-driven research program that results in publication of refereed, scientific publications. Experience in the application of insect pathology to applied pest problems and demonstrated experience and interest in invasive insects in North American ecosystems is required. Excellent verbal and written communication skills are required. Interested candidates should send a letter of

application along with a curriculum vita, descriptions of research and teaching interests, official university transcripts noting date of terminal (Ph.D.) degree, and a list of 3-5 references containing telephone numbers, addresses, and e-mail addresses to:

Reid Gerhardt, Chair Search Committee  
Department of Entomology and Plant Pathology  
The University of Tennessee  
2431 Joe Johnson Dr  
205 Ellington Plant Sciences  
Knoxville, TN 37996-4560  
(865) 974-7956

**Postdoctoral fellow:** Funding is available for one year for a postdoctoral fellow with training in molecular biology/insect virology, to work in a laboratory of the Canadian Forest Service in Québec City, Canada. The fellow will be involved in a collaborative project aimed at gathering data for the registration of a genetically engineered baculovirus. The principal activity of the fellow will be to compare wild-type and recombinant viruses with respect to their effects on modulation of host gene expression, using qPCR, following an initial microarray screen. Although we have access to a growing EST library for the host of interest (eastern spruce budworm), it may also be necessary to clone the cDNAs of some host genes (e.g. transcription factors). In parallel, the fellow will be encouraged to undertake an independent side-project that is relevant to the research program of the hosting laboratory.

Tenure of the fellowship is to begin in the fall of 2007 and will be valid for one year, with the possibility of a 6-month extension. The fellow will work at the Laurentian Forestry Centre, which is located on the campus of Laval University, where the 2007 SIP Meeting will be held. Candidates should submit their CV to Dr. Michel Cusson before August 2007. Candidates who plan on attending the 2007 SIP conference should make arrangements to meet with Dr. Cusson and visit his laboratory during their stay in Québec City.

Contact information for applicants:

Dr. Michel Cusson  
Research Scientist and Adjunct Professor (Biology, Biochemistry, Univ. Laval)  
Laurentian Forestry Centre  
Canadian Forest Service  
Natural Resources Canada  
1055 du P.E.P.S., P.O. Box 10380, Stn. Ste. Foy  
Québec, Québec G1V 4C7

CANADA

Tel: 418-648-3944

Fax: 418-648-5849

Email: michel.cusson@nrcan.forestry.ca

Webpage: [Http://cfs.nrcan.gc.ca/directory/mcusson](http://cfs.nrcan.gc.ca/directory/mcusson)

The candidate must be eligible to the „Visiting Fellowship in a Canadian Government Laboratory% program of the Natural Sciences and Engineering Research Council of Canada (NSERC). Follow this link for more details:

[http://www.nserc.ca/sf\\_e.asp?nav=sfnv&lbi=3d](http://www.nserc.ca/sf_e.asp?nav=sfnv&lbi=3d).

**Postdoctoral research scientist.** Ongoing projects in the Arbovirus Laboratories, Wadsworth Center, Albany, NY, involve examining the interaction of arboviruses with mosquito vectors and vertebrate hosts. We are especially interested in how these interactions impact the dynamics of the natural transmission cycles of the viruses. Work involves studies with mosquitoes, mice, and birds in our state-of-the-art BSL-3 insectary and vivarium. A PhD, MD/PhD, or DVM is required, along with experience in virology and/or vector biology. Preference will be given to applicants with experience working with viruses in insect systems. The successful applicant will be expected to conduct bench research, supervise technical staff, and assist in writing manuscripts and grant proposals. Opportunities exist for collaboration with faculty of Wadsworth Center and development of independent research projects. Please email C.V., statement of research interests, and contact information for three references to:

[kramer@wadsworth.org](mailto:kramer@wadsworth.org).

Contact information for applicants:

Laura D. Kramer

Wadsworth Center/NYSDOH

Arbovirus Laboratories

5668 State Farm Road

Slingerlands, NY 12159

Email: [kramer@wadsworth.org](mailto:kramer@wadsworth.org)

Webpage: [Http://www.wadsworth.org](http://www.wadsworth.org)

**Graduate Research Assistantship. Host-Parasite Interactions/Invasive Pathogens/Conservation**

**Ecology.** 3-yr Graduate Student Research Assistantship is available to develop research in ecology, behavior and/or evolution of insect pathogens, specifically to focus on the interactions between bumble bees, environment and pathogens and to participate in a multi-team effort to investigate causes of decline in North American bumble bees.

The student will join the Department of Entomology (<http://www.life.uiuc.edu/entomology/index.html>) at the University of Illinois, and will have strong affiliation with the Illinois Natural History Survey (<http://www.inhs.uiuc.edu/>) located on the UIUC campus. The research is multidisciplinary, and involves extensive fieldwork in both the midwestern and western U.S. to collect data on abundance, distribution and population structure of bumble bees, several species of which appear to be declining in abundance and distribution across the U.S. We are also developing experimental protocols for testing the potential role of pathogens in their population decline. The principal goal of the research to be developed by the student is to determine whether insect pathogens are important in the decline of bumble bees in the U.S.

We expect to select a student who is highly motivated to becoming a career scientist, who enjoys being creative and productive, has independent initiative, likes problem-solving, works well with a team, and can work effectively under pressure. The research will be directed by Drs. Lee Solter ([http://www.inhs.uiuc.edu/staff/index.php?action=list&user\\_name=lsolter](http://www.inhs.uiuc.edu/staff/index.php?action=list&user_name=lsolter)) and Sydney Cameron (<http://www.life.uiuc.edu/scameron/>). If you are interested in applying for this graduate research opportunity, please provide the following:

1. A letter indicating your interest in this position, broader perspective of why you want to go to graduate school, and career objectives;
2. A curriculum vitae, including any honors research projects, other honors and awards, publications, presentations at meetings, courses, grades (can be informal record at this stage), overall GPA, GRE scores (%);
3. A list of lab techniques with which you have experience, such as molecular methods and statistical analysis, computer programming, mathematical skills, and other relevant expertise;
4. Names and contact information (e-mail, phone, address) for at least three people who can provide reference letters.

If selected, you will need to apply to the UIUC Department of Entomology (research programs of each of the faculty are listed on the department website) for Fall 2007 or Spring 2008. Information on admission to graduate school is available on the Department of Entomology website. Final acceptance is subject to approval by the faculty in the Dept of Entomology.

Contact information for applicants: Interested students should send all application materials as electronic pdf files to:

Dr. Leellen Solter

Email: [lsolter@uiuc.edu](mailto:lsolter@uiuc.edu)

## POSITIONS WANTED

**Nageswara Rao Reddy Neelapu:** Postdoctoral position sought. Ph.D. in Evolutionary Biology, from Andhra University. Dissertation entitled: "Investigation on Existence and Mechanism of Recombination and Molecular Phylogeny of Mitosporic Entomopathogenic Fungi *Beauveria bassiana* (Balsamo) Vuillemin and *Nomuraea rileyi* (Farlow) Samson. (2002-2007) M.Sc. in Life Sciences from Pondicherry Central University, Pondicherry in 2000 with 7.78 CGPA (1998-2000). Bachelor of Science in Botany, Biotechnology, Biochemistry, from Andhra University (1995-1998). DST-DAAD Visiting Fellow in Department of Phytomedicine, University of Hohenheim, Stuttgart, Germany. Research Area: Investigation on Existence and Mechanism of Recombination through SCCP and sequence analysis in *Beauveria bassiana* (Balsamo) Vuillemin and *Nomuraea rileyi* (Farlow) Samson (2003-2004). Additional project: "Characterization of organo-phosphate resistance in the entomopathogenic fungus, *Beauveria bassiana* (Balsamo) Vuill. - a potential biopesticide (2001-2002); Research Assistantship in National Institute of Oceanography. Research Area: Morphological and genetic characterization of some seer fishes from the Indian coast." (2001-2001). Research internship in Division of Biotechnology, Directorate of Oil Seeds Research, Rajendranagar, Hyderabad for a period of two months. Research Area: Molecular biology and Biochemical techniques. (1998 -1998)

Contact information:

Nageswara Rao Reddy Neelapu, Ph.D.

Andhra University

Visakhapatnam (AP)

India 530003 or

3-44, Venkatapuram

Visakhapatnam (AP)

India 530029

Phone: +919849513540

Email: [nrneelapu@gmail.com](mailto:nrneelapu@gmail.com)

**Lin-Ling Wang.** Post-doctoral position sought. Ph.D. expected in July 2007. The title of my doctoral research is "The ribosomal RNA gene of *Nosema*

*antheraeae* and the proteomics research on *Nosema bombycis* and *Nosema antheraeae*, and comparative proteomics studies in midgut of *Bombyx mori* injected microsporidia". I have experience in 2-Dimensional Electrophoresis; High performance liquid chromatography; MALDI-TOF- TOF-MS/MS; Preparation and analysis of DNA, RNA and protein, RT-PCR, DNA cloning and expression in model systems; Cell culture.

Contact information:

Institute of Life Sciences

JiangSu University

ZhenJiang, China, 212013.

Telephone: 86-511-2983596. Fax: 86-511-8791923.

Email: wanglinling2005@163.com

**Dr. Amit Choudhary.** Seeking Post Doctoral Fellowship. I am working as SRF in baculovirus characterization and evaluation in India. PhD in Insect toxicology and have good knowledge of GLC AND HPLC

Contact information:

Dr. Pankaj Sood ASSTT Scientist Microbial Control  
HP AG UNIV PALAMPUR INDIA

E-mail address: amitvivek11@rediffmail.com

## PAST MEETINGS AND WORKSHOPS

### Midwest Institute for Biological Control Insect Pathology Short Course June 28-July 1, 2007



**2007 MIBC Insect Pathology Short Course  
Participants**

The Midwest Institute for Biological Control, under the auspices of NCR-125, North Central Region Committee on the Biological Control of Arthropods and Weeds, sponsored a week-long intensive Insect

Pathology Short Course on the campus of the University of Illinois, June 4-7, 2007.

Lee Solter, Illinois Natural History Survey, organized the course and SIP members Lawrence Lacey and Richard Humber participated as instructors for 22 participants. Participants included 12 graduate students from six universities, as well as 10 postdoctoral researchers and staff researchers from USDA, universities and industry.



**A dedicated Lerry Lacey collects black fly larvae (in the middle of the night) for the participants to examine in lab.**

The course consisted of lecture, laboratory and discussion sessions, and a collecting trip to an Illinois prairie restoration and woodland site. Instruction was given on proper handling, storage and transportation of insects to protect the pathogens they might harbor.

The major pathogen groups and their use in biological control were addressed in lectures and laboratory sessions, and techniques for isolating and staining pathogens for identification were covered in the laboratory.



**Rich Humber is pleased with another great group of budding insect pathologists!**

## FUTURE MEETINGS AND WORKSHOPS

### V European Congress of Protistology and XI European Congress on Ciliate Biology July 23-27, 2007

St. Petersburg, Russia

Website: <http://ecp2007.ifmo.ru/>

Email: [secretary@ecp2007.ifmo.ru](mailto:secretary@ecp2007.ifmo.ru) (please, refer to "ECP-V")

Mail: ECP-V Organizing Committee Institute of Cytology RAS 4 Tikhoretsky Avenue St. Petersburg 194064 RUSSIA

Language of the Congress: English

Congress venue: The historical and scientific center of St. Petersburg



Entomological Society of America  
55<sup>th</sup> Annual Meeting  
December 9-12, 2007

Town and Country Resort & Convention Center  
San Diego, California, USA

[www.entsoc.org/annual\\_meeting/current\\_meeting/](http://www.entsoc.org/annual_meeting/current_meeting/)



XXIII International  
Congress of Entomology

International Convention  
Centre, Durban, South  
Africa, July 6-12, 2008

Hosted by  
The Entomological Society  
of Southern Africa

We are delighted that the Council for International Congresses of Entomology has decided to select South Africa as the site for the next ICE. The Entomological Society of Southern Africa will ensure that this Congress lives up to the best traditions of previous congresses and that the scientific program will have a significant impact on the development of the discipline for the benefit of the peoples of the African continent and elsewhere.

Africa is the only continent that has yet to host an International Congress of Entomology. The hosting of such an important event will undoubtedly be of

enormous benefit in generating solutions to the many pressing entomological challenges facing the continent, especially those related to human health, food security and the documentation of its hugely diverse but poorly known arthropod fauna. The Congress will also provide a unique opportunity for African scientists to meet and interact in large numbers with entomologists from across the globe. We urge our colleagues throughout the world to use this opportunity to get a glimpse of the continent's rich and fascinating insect fauna and to enjoy the hospitality of their African friends.

*Robin Crewe*

President: ICE 2008

**Congress Organizers:**

**Turners Conferences & Conventions (Pty) Ltd**

PO Box 1935, Durban 4000, South Africa

Tel: +27 31 3321451 Fax: +27 31 3686623

Email:

<<mailto:info@ice2008.org.za>>[info@ice2008.org.za](mailto:info@ice2008.org.za)

### Future SIP Meetings



**SIP 2007!!**

Québec City, Québec, Canada  
August 12-16

**SIP 2008**

**University of Warwick, Coventry,  
United Kingdom, 3 - 8 August 2008**

Contacts: Doreen Winstanley  
[doreen.winstanley@warwick.ac.uk](mailto:doreen.winstanley@warwick.ac.uk) and Dave  
Chandler [dave.chandler@warwick.ac.uk](mailto:dave.chandler@warwick.ac.uk)

*Proposals for hosting future meetings are welcomed. Please contact Lawrence (Lerry) Lacey, Chair of the Meetings Committee.  
Email: [llacey@yarl.ars.usda.gov](mailto:llacey@yarl.ars.usda.gov)*

## PUBLICATIONS

### Handbook of Forage and Rangeland Insects Available Now



The Entomological Society of America (ESA), in cooperation with the American Phytopathological Society (APS), announces the publication of the *Handbook of Forage and Rangeland Insects*, the latest in ESA's Insect Pest Handbooks series. This new handbook will help growers, land managers, extension personnel, researchers, students, and teachers in the U.S. and Canada identify beneficial and injurious arthropods and determine methods for their management.

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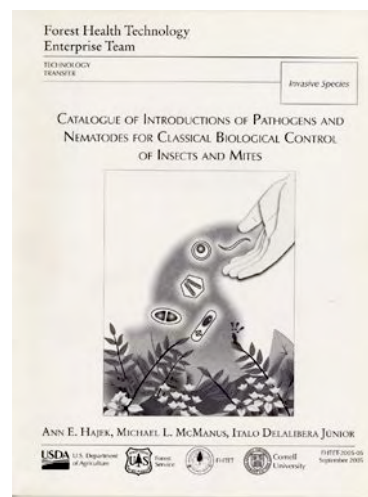
*Handbook of Forage and Rangeland Insects* is a comprehensive text that examines agricultural pest management from all angles – magnifying practical field strategies for growers, updating growers on the latest protection techniques, and preventing needless crop loss as a result of outdated pest control procedures. This 188-page, soft cover book (ISBN 0-9776209-0-5), edited by William Lamp, Richard Berberet, Leon Higley and Craig Baird, contains 254 photos and maps, plus insect identification keys and illustrations.

The color handbook is divided into four sections (Forage and Rangeland Production, Arthropods and their Management, Injurious Arthropods, and Beneficial Organisms) and contains sub-chapters on integrated pest management, pollinators, weed biological control agents, flower and seed feeders, foliar pests, root feeders, and the ecology and physiology of forage crops, including grasses and legumes.

The handbook costs \$59.00 (ESA members enjoy a 10% discount) and can be ordered through APS by calling 1-800-328-7560 or by visiting <http://www.shopapspress.org/haoffoandrai.html>.

## Please Note:

There has been a change in URL for the “Catalogue of Introductions of Pathogens and Nematodes for Classical Biological Control of Insects and Mites”



<http://www.fs.fed.us/foresthealth/technology/pdfs/catalogue.pdf>

This URL will initiate a download of the pdf... a copy all your own!

**The Field Manual of Techniques in Invertebrate Pathology** [due out next month] is designed to provide background and instruction on a broad spectrum of techniques and their use in the evaluation of entomopathogens in the field. The second edition of the *Field Manual* provides updated information and includes two additional chapters and 12 new contributors. The intended audience includes researchers, graduate students, practitioners of integrated pest management (IPM), regulators, and those conducting environmental impact studies of entomopathogens. Although it can function as a stand-alone reference, the *Field Manual* is complementary to the laboratory oriented *Manual of Techniques in Insect Pathology* and to comprehensive texts in insect pathology.

We have structured the 40 chapters of the *Field Manual* into 10 sections to provide the tools required for planning experiments with entomopathogens and their implementation in the field. The basic tools include chapters on the theory and practice of application of microbial control agents (MCAs) (Section I), statistical considerations in the design of experiments (Section II), and three chapters on application equipment and strategies (Section III). Section IV includes individual chapters on the major

pathogen groups (virus, bacteria, microsporidia, fungi, and nematodes) and special considerations for their evaluation under field conditions. This section sets the stage for subsequent chapters on the impact of naturally occurring and introduced exotic pathogens and inundative application of MCAs. Twenty-three chapters on the application and evaluation of MCAs in a wide variety of agricultural, forest, domestic and aquatic habitats comprise Section VII of the *Field Manual*. In addition to insect pests, the inclusion of mites and slugs broadens the scope of the book. Most of the chapters in this section include step-by-step instructions on handling of inoculum, design of field experiments and experimental plots and application and assessment of efficacy of dozens of MCAs. Several of these chapters include supplementary techniques and media for conducting follow up laboratory studies for confirmation of infection, determination of persistence, etc. The three final chapters include: special consideration for evaluation of *Bt* transgenic plants (Section VIII); resistance to insect pathogens and strategies to manage resistance (Section IX); and guidelines for evaluating effects of MCAs on nontarget organisms (Section X).

Due to uncertainty regarding the future availability of organophosphate and other conventional chemical insecticides, MCAs will play increasingly important roles in IPM. The *Field Manual* will provide researchers and IPM practitioners with techniques and practical guidance for the study and optimal use of MCAs in a variety of settings.

(From the Forward)

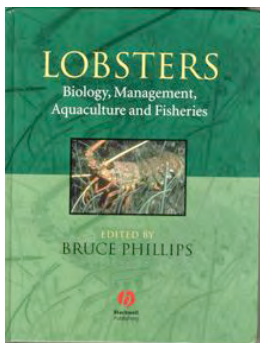
Lawrence A. Lacey & Harry K. Kaya, Editors

### **Lobsters: Biology, Management, Aquaculture and Fisheries**

Edited by Bruce Phillips

Blackwell Publishing

ISBN: 1-4051-2657; 506 pp., \$224.99



This comprehensive textbook provides a nicely organized and informative chapter "Pathogens, parasites and other symbionts" by Jeff Shields, Fran Stephens and Brian Jones. The authors cover all pathogen and parasite groups reported from cultured and wild-

caught lobsters and stress that aquaculture could exacerbate transmission. This chapter provides an excellent first stop for those interested in infectious disease and immunity in these crustaceans, providing an excellent referenced table and historical information as well as up to date issues on disease issues aquaculture.

### **FROM THE EDITORS**



Dear SIP Colleagues,

This is a goodbye...certainly not as colleagues and SIP members, but as the editorial staff of the SIP Newsletter. It is time to move on, to give over the Newsletter to fresh eyes and fresh ideas, but it is nevertheless with mixed feelings that we pass it on. We will miss the work and fun of preparing each issue but are extremely pleased to be informed by SIP President Wendy Gelernter that Judith Pell and Paresh Shah have agreed to serve as Co-Editors. We leave the Newsletter in excellent hands, indeed.

We have had a wonderful 6-year run (unbelievable that so much time has passed) and have enjoyed beyond any expectations the interaction with the SIP community that we have been afforded. We have worked with great leadership teams and everyone - executive officers, Division chairs and SIP members - have given their support, attention and time to make the Newsletter a good forum for the Society. That kind of support and interest has made working on the Newsletter a complete pleasure (except when grant proposals were due...!).

In addition to thanking the members and the Council for their cooperation, we owe a huge debt of gratitude to Peg Rotstein. Peg has made publication a seamless



effort and working with her has been a pleasure. Thanks, Peg, for all you have done to assist us.

Judith and Paresh will be editing and formatting the November issue with Lee to complete the transition. Please give them all the cooperation we have enjoyed over the past years and please do send them your news, photos, articles and new ideas. The Newsletter is what we as a Society make it (have you heard of any others that publish nearly 100 pages of newsletter per year?!). Let's continue to work together and with Judith and Paresh to produce a relevant and fun

publication that serves all the members and the Society.

Adieu for now, but see you in Québec!!

*Lee Solter, Gernot Hoch and Vince D'Amico*



SIP Tourists



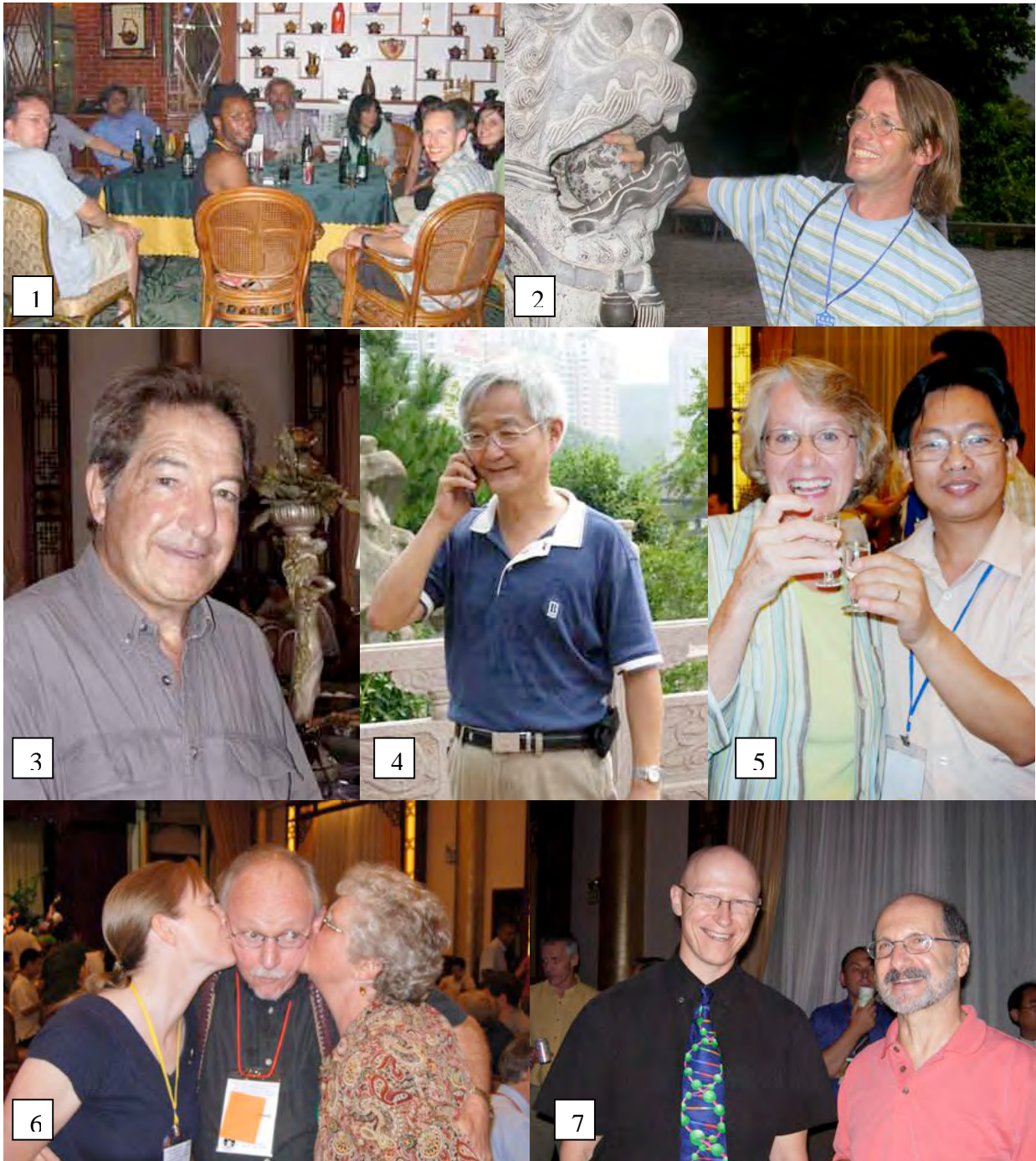
Just couldn't resist.... Trevor Jackson steals the show!



**SIP in Wuhan China (from top, left to right): 1. Judith Pell and Carolyn Mander at breakfast. 2. Ann Hajek ‘bonging’. 3. Juan Luis and Sodeya Jurat-Fuentes. 4. Jimmy Becnel and Chris Geden at Yellow Crane Tower. 5. Marcel Westenberg at the BBQ. 6. Walkers and runners: Jimmy Becnel, Lee Solter, Gernot Hoch, Charlotte Nielsen and Dietrich Stephan. 7. Celebrating SIP 2006 at the Banquet**



1. The long and short of it...Michael Brownbridge and Christina Nielsen-LeRoux. 2. In the Boardroom: Jeroen van Rie. 3. New SIP model: Patricia Stock. 4. At the BBQ: Marcos Faria, Juan Carlos Torres and Israel Padilla-Guerrero. 5. Shipboard on the Yangtze: Pat O'Leary and Jim Harper, 6. Chris Lucarotti, 7. Marcello Jacob-Lorena. 8. Martin Andermatt.



**1. SIP after hours. 2. Dietrich Stephan- caught in the tiger's jaws. 3. Max Bergoin. 4. Li Zengzhi, President, Anhui Agricultural University. 5. Linda Guarino and Xinwen Chen. 6. Uh.... Wow! (Rosalind James, Don Roberts and Betty Davidson. 6. David Theilman and 2007 SIP meeting organizer, Jean-Louis Schwartz.**